

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199210

Luminaire Tested: **XNV-AF-01-LED-U-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

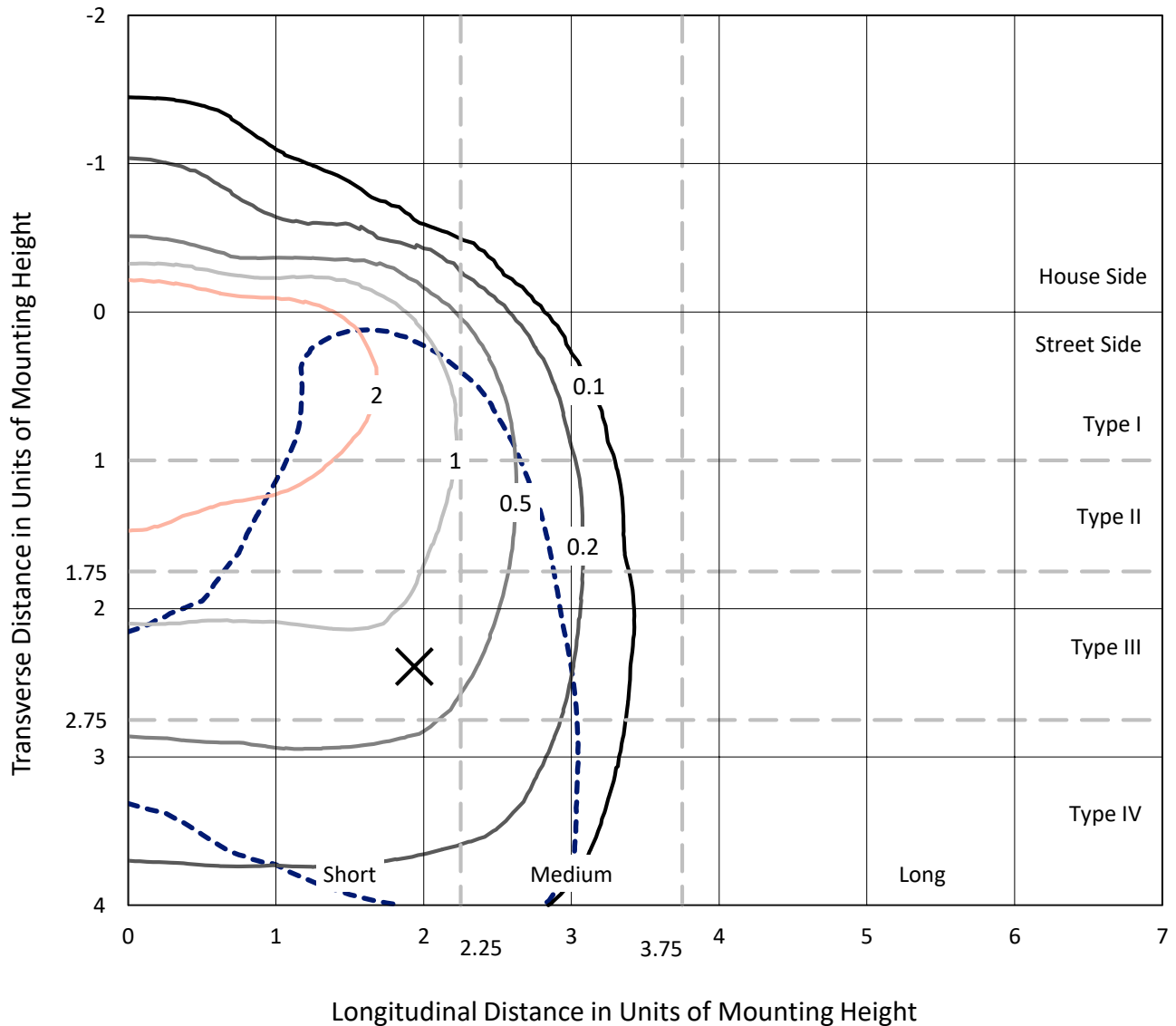
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

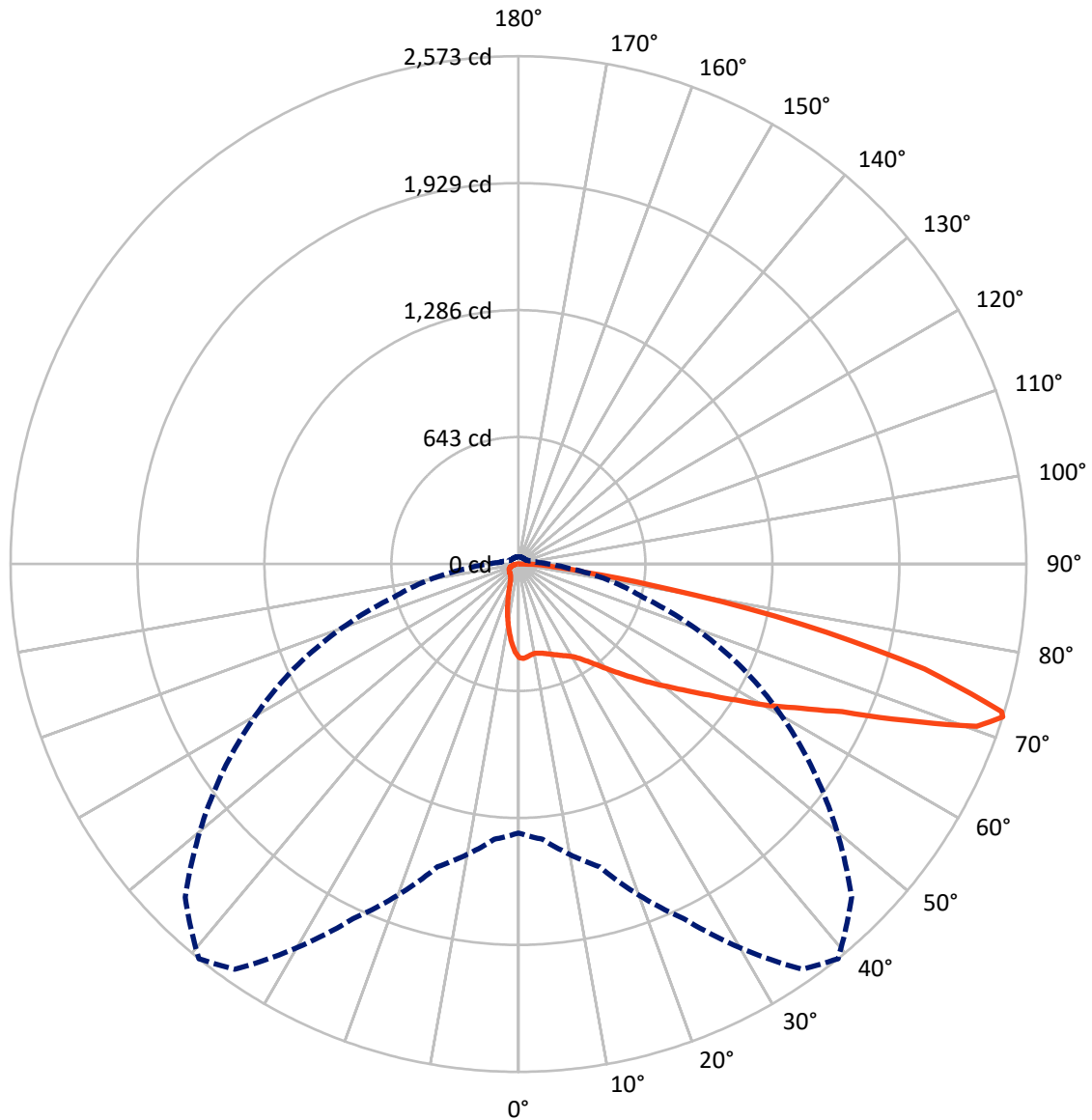
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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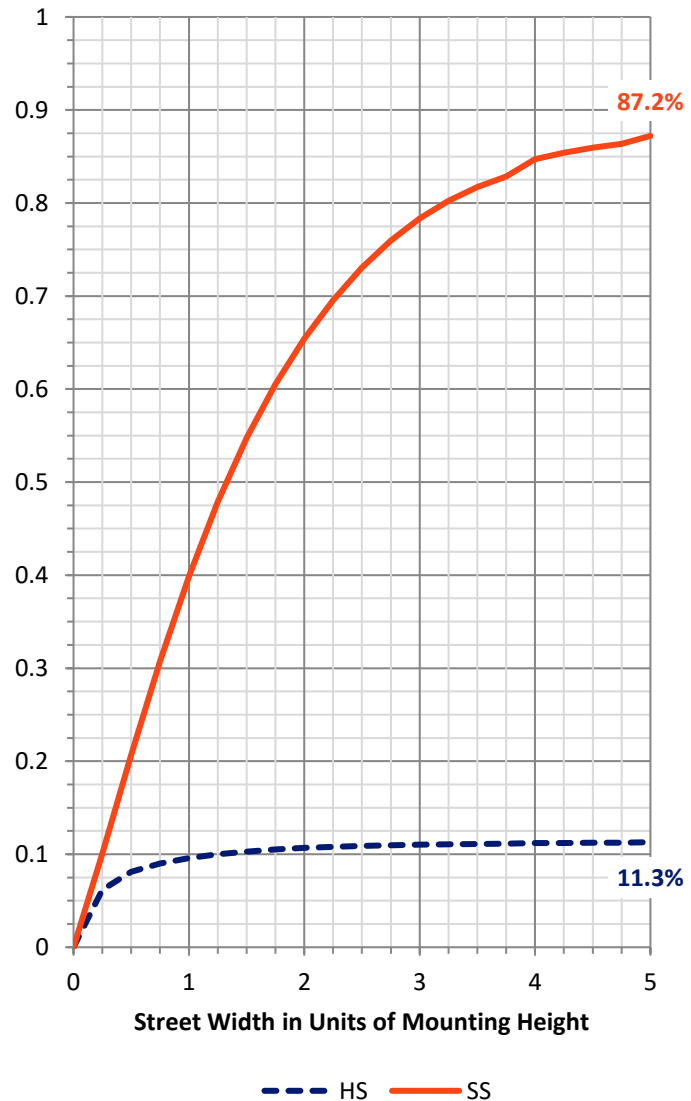
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.7	0.0	355.7
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	2746.3	0.0	2746.3
	% Fixture	88.5	0.0	88.5
Total	Lumens	3102.0	0.0	3102.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	1.3
10°-20°	102.3	3.3
20°-30°	159.4	5.1
30°-40°	245.5	7.9
40°-50°	400.1	12.9
50°-60°	621.8	20.0
60°-70°	832.2	26.8
70°-80°	598.5	19.3
80°-90°	101.5	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3102.0	100.0
0°-180°	3102.0	100.0



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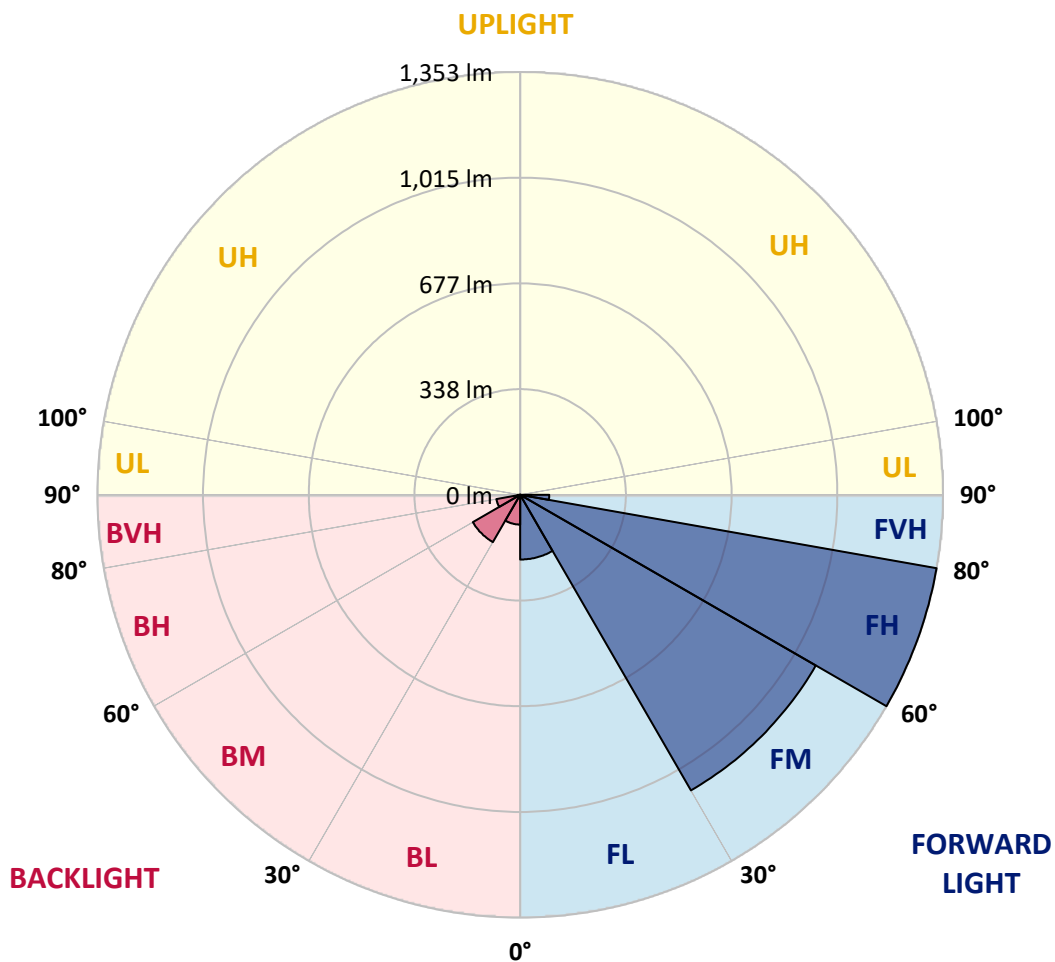
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.2	6.7			
FM	(30°-60°)	1092.6	35.2			
FH	(60°-80°)	1353.5	43.6			G1/1800
FVH	(80°-90°)	93.1	3.0			G1/100
BL	(0°-30°)	95.2	3.1	B0/110		
BM	(30°-60°)	174.8	5.6	B0/220		
BH	(60°-80°)	77.3	2.5	B0/110		G0/110
BVH	(80°-90°)	8.4	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	483.9	484.1	483.5	481.6	480.0	479.1	477.7	475.2	471.9	469.6	467.7
5°	479.4	480.0	479.6	476.4	473.5	471.9	469.6	466.0	461.7	459.8	455.4
7.5°	475.8	476.2	475.0	471.4	465.8	463.7	459.6	455.0	451.0	448.3	443.1
10°	473.3	473.7	472.7	469.1	462.9	460.4	455.4	450.4	445.2	441.9	436.0
12.5°	469.8	470.6	470.6	468.9	464.8	463.1	458.1	452.7	447.9	444.4	437.1
15°	469.1	470.2	472.1	471.9	470.6	469.4	465.4	460.0	455.8	451.7	442.7
17.5°	474.4	476.6	480.4	481.6	480.8	478.1	473.5	468.5	463.9	460.0	449.0
20°	487.5	488.7	494.3	496.8	492.7	488.7	482.7	476.2	472.1	468.9	454.8
22.5°	507.3	508.9	513.5	513.7	505.0	500.2	492.5	484.6	480.6	479.4	462.7
25°	538.9	538.5	539.7	534.5	518.7	513.1	503.7	494.6	491.8	494.3	474.4
27.5°	576.8	575.8	571.8	558.3	534.3	527.0	515.8	507.7	507.7	513.5	490.2
30°	620.5	619.5	606.6	583.9	552.9	544.5	532.7	524.1	528.5	539.7	511.6
32.5°	666.8	663.0	644.9	614.5	579.3	570.1	558.7	549.9	558.3	577.4	542.4
35°	710.3	708.2	685.9	649.9	613.5	605.8	597.8	587.0	600.3	630.1	586.0
37.5°	755.3	753.6	726.3	688.0	655.1	649.9	643.2	635.7	657.2	696.3	644.9
40°	805.4	802.1	767.8	729.4	703.6	701.1	697.6	695.5	730.1	788.4	719.4
42.5°	862.3	855.8	811.5	775.0	756.5	758.6	756.7	765.0	817.9	894.6	808.2
45°	927.3	914.4	855.0	823.6	815.0	823.4	827.3	848.6	921.8	1017.2	907.3
47.5°	988.1	971.4	902.7	876.2	881.0	895.4	906.6	944.1	1035.8	1138.4	1008.5
50°	1044.1	1025.3	953.7	930.8	954.1	974.5	997.9	1050.7	1156.9	1263.1	1101.3
52.5°	1085.5	1072.0	1004.7	990.4	1038.0	1065.1	1102.4	1169.2	1279.4	1382.0	1184.2
55°	1117.6	1110.3	1054.5	1058.7	1133.0	1171.7	1216.9	1293.8	1408.9	1488.7	1250.9
57.5°	1154.7	1149.2	1111.3	1141.1	1250.9	1299.6	1352.9	1438.3	1532.2	1582.6	1303.1
60°	1193.8	1193.8	1174.6	1240.4	1398.3	1454.1	1507.2	1573.6	1655.0	1667.1	1324.4
62.5°	1223.4	1231.1	1237.9	1346.2	1538.2	1607.6	1665.9	1729.6	1782.3	1708.8	1274.4
65°	1266.3	1282.7	1321.4	1468.5	1711.5	1802.3	1881.0	1934.5	1885.3	1675.7	1111.3
67.5°	1340.0	1364.3	1446.8	1650.5	1976.8	2112.7	2189.2	2096.7	1865.1	1467.2	851.3
70°	1406.4	1440.8	1581.7	1881.4	2321.6	2462.8	2427.6	2059.0	1624.4	1075.5	523.7
72°	1362.3	1399.7	1588.0	1982.0	2505.9	2572.5	2387.0	1824.7	1255.2	656.4	258.2
72.5°	1333.3	1372.3	1567.8	1979.5	2510.9	2558.6	2330.5	1731.7	1139.5	574.3	208.9
75°	1113.8	1147.2	1348.1	1754.4	2212.7	2125.2	1818.7	1120.7	523.7	185.5	107.4
77.5°	727.4	752.8	929.6	1215.5	1549.9	1465.8	1107.0	524.7	196.4	112.7	80.8
80°	365.4	383.6	497.5	639.1	836.5	769.6	511.0	253.8	131.4	81.4	63.5
82.5°	254.3	270.9	342.5	326.3	349.6	338.4	240.3	211.8	98.3	51.4	33.3
85°	213.2	230.5	283.4	232.6	190.3	173.5	172.2	200.1	65.0	25.4	28.1
87.5°	186.0	212.2	233.8	169.9	130.6	115.2	126.8	183.5	20.6	14.0	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	464.6	463.9	460.8	456.0	452.5	450.2	445.8	445.6	446.0	442.3	443.7
5°	451.5	449.0	440.8	429.8	420.8	412.3	402.9	399.8	397.1	391.5	392.1
7.5°	437.7	433.3	419.2	401.1	383.8	367.9	352.3	344.6	338.8	331.5	331.5
10°	429.6	422.7	401.1	374.6	347.1	324.0	300.7	286.7	276.5	267.2	266.5
12.5°	429.2	418.8	388.6	352.1	314.4	281.9	250.1	228.6	213.4	202.4	201.4
15°	432.5	417.9	378.2	331.1	283.6	241.3	202.0	174.7	155.3	143.1	141.8
17.5°	435.4	416.9	366.9	309.0	253.6	202.2	158.5	130.1	111.8	101.8	100.8
20°	438.1	414.6	352.5	285.7	220.5	165.5	123.9	101.0	88.9	83.3	82.7
22.5°	442.1	412.5	337.5	259.5	188.0	134.7	102.2	85.8	79.3	76.6	76.2
25°	448.5	412.7	323.0	232.6	158.3	112.2	88.5	78.3	74.8	72.9	72.9
27.5°	457.9	415.2	308.6	205.3	133.1	96.8	80.4	74.3	72.0	70.6	70.2
30°	471.6	419.8	293.4	179.5	113.1	86.2	75.6	71.8	70.0	68.7	68.5
32.5°	491.6	427.9	277.4	156.0	97.9	78.7	72.0	69.8	68.3	67.3	67.1
35°	521.4	442.3	261.7	136.0	87.0	73.3	69.1	67.3	66.4	66.0	65.8
37.5°	565.1	465.4	247.0	120.4	80.0	69.8	66.2	65.2	64.8	64.8	64.8
40°	620.1	495.8	233.6	109.3	76.0	67.1	64.1	63.3	63.3	63.5	63.5
42.5°	687.0	533.9	222.2	101.8	73.7	65.2	62.7	62.3	62.1	62.1	62.3
45°	764.6	578.9	215.1	96.0	72.0	64.1	61.6	61.4	60.6	60.2	60.2
47.5°	842.7	627.0	214.7	92.7	70.0	62.9	60.6	60.6	58.9	58.1	58.3
50°	915.6	670.1	219.3	91.8	68.7	61.0	59.6	59.8	57.5	56.4	56.2
52.5°	974.3	703.0	224.9	92.9	68.7	59.3	57.7	58.7	56.2	55.0	54.8
55°	1019.7	725.9	227.0	95.2	69.5	57.9	56.0	57.7	55.8	54.1	54.1
57.5°	1052.2	733.2	218.0	96.2	70.8	57.7	54.3	57.5	56.4	54.3	54.3
60°	1040.3	690.9	184.7	92.2	70.6	57.3	53.1	57.9	58.5	56.2	56.2
62.5°	947.7	578.1	148.3	83.3	67.1	55.8	51.6	57.5	60.0	59.1	58.7
65°	771.5	424.0	114.9	72.7	61.0	52.7	48.5	53.7	56.6	57.5	57.7
67.5°	543.7	268.4	89.3	61.8	53.5	48.1	45.0	47.5	48.5	48.9	49.8
70°	297.4	145.3	71.0	52.1	45.8	43.5	41.2	41.4	41.0	40.6	41.0
72°	149.3	95.0	60.0	45.2	40.6	39.1	38.1	37.5	37.5	36.9	37.1
72.5°	128.5	88.3	57.9	43.5	39.4	38.1	37.3	36.6	36.4	36.0	36.2
75°	85.6	70.0	48.3	36.4	33.5	32.7	33.1	32.5	32.7	32.3	32.5
77.5°	69.1	60.2	41.0	30.8	28.7	27.5	28.3	28.5	28.9	28.5	28.3
80°	57.9	51.2	34.4	25.4	23.9	22.9	23.3	24.8	25.0	23.7	23.5
82.5°	37.5	41.2	27.1	19.8	18.3	17.9	18.9	20.4	20.8	19.2	18.7
85°	31.4	33.1	19.6	13.5	12.1	11.7	13.7	15.2	16.2	14.6	14.2
87.5°	8.7	16.2	9.6	6.5	5.4	5.4	6.7	7.9	9.4	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)