

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: P198562

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7030-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2874 lumens
Efficiency: N/A
Efficacy: 84.5 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

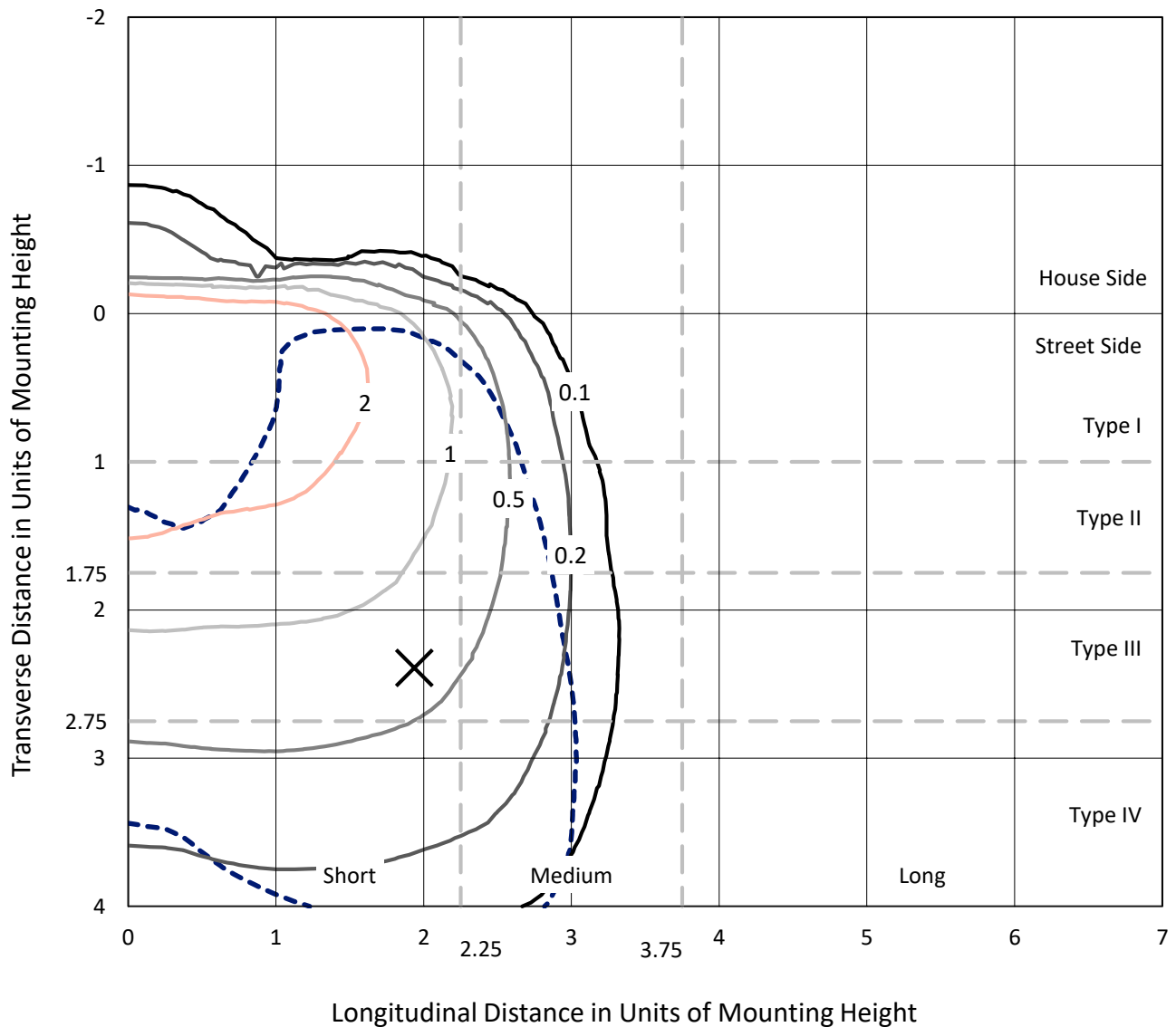


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

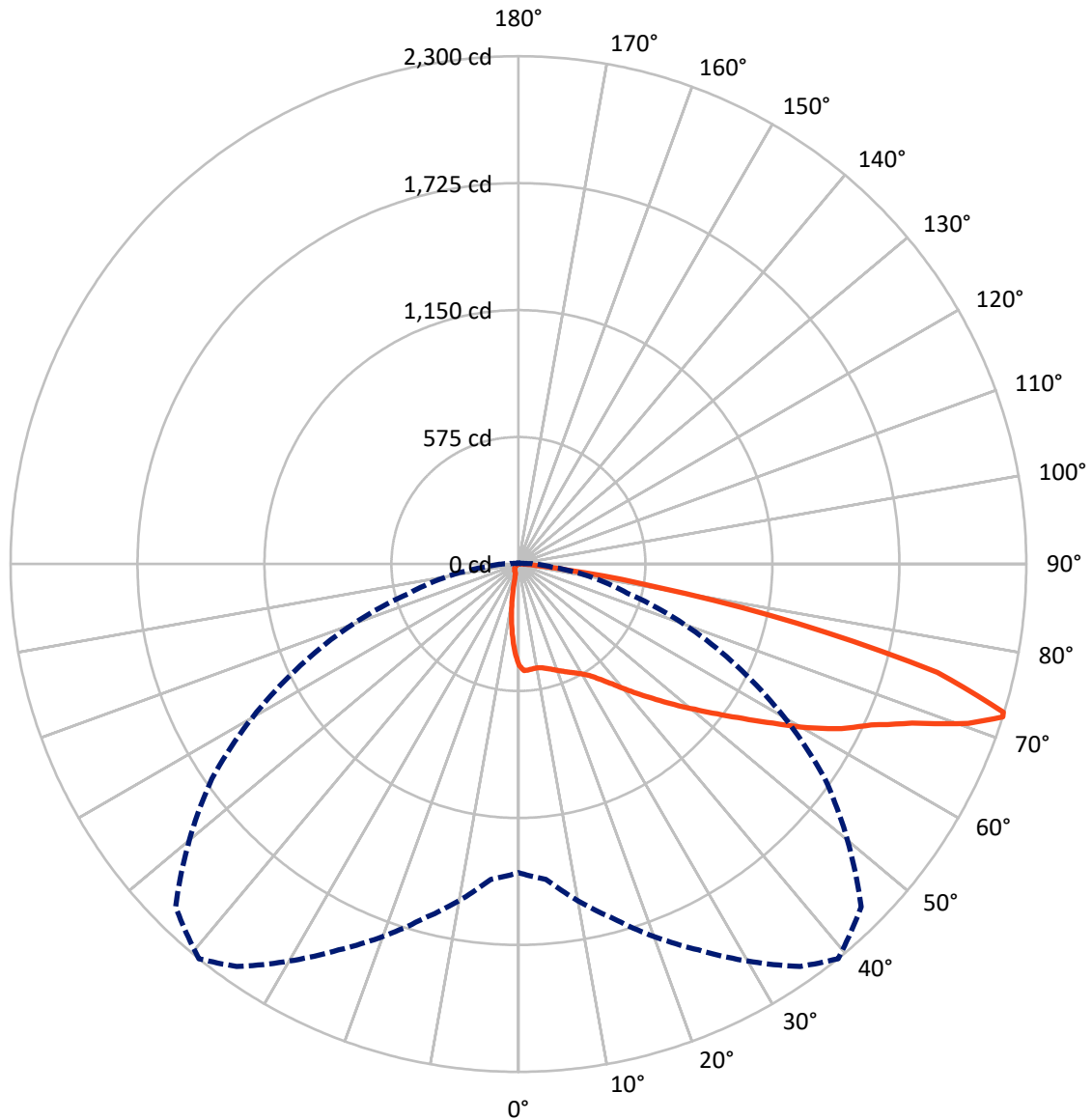


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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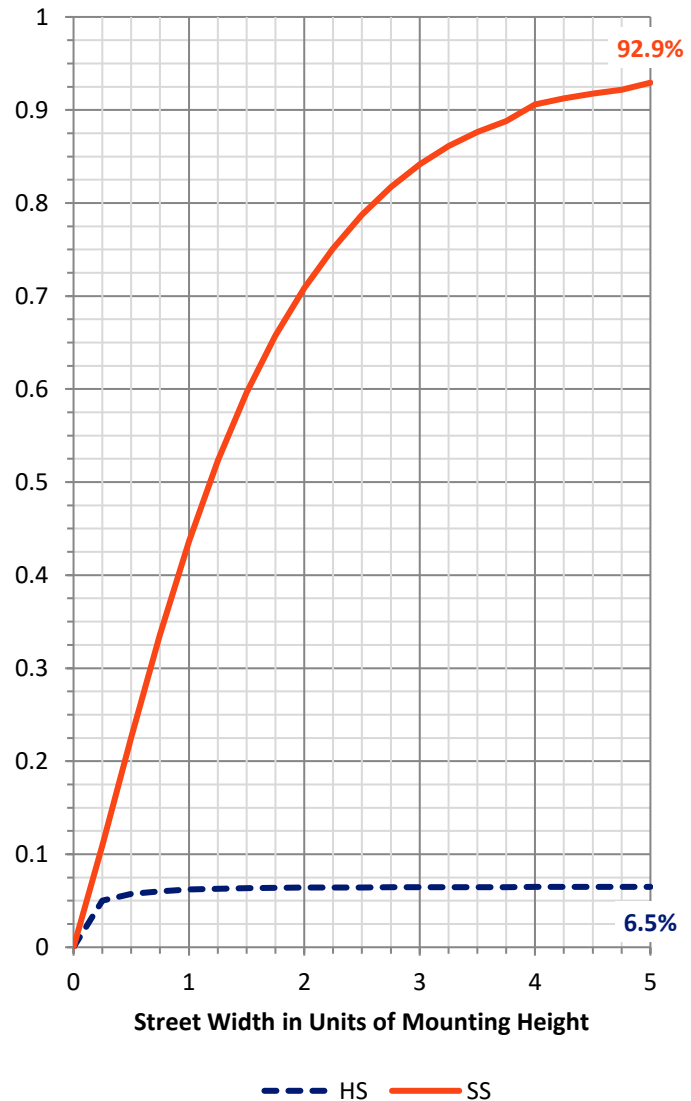
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.3	0.0	188.3
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	2685.6	0.0	2685.6
	% Fixture	93.4	0.0	93.4
Total	Lumens	2874.0	0.0	2874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.3
10°-20°	90.6	3.2
20°-30°	150.4	5.2
30°-40°	239.8	8.3
40°-50°	395.8	13.8
50°-60°	597.7	20.8
60°-70°	778.6	27.1
70°-80°	526.1	18.3
80°-90°	57.6	2.0
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°	2874.0	100.0
0°-180°	2874.0	100.0

Coefficient of Utilization



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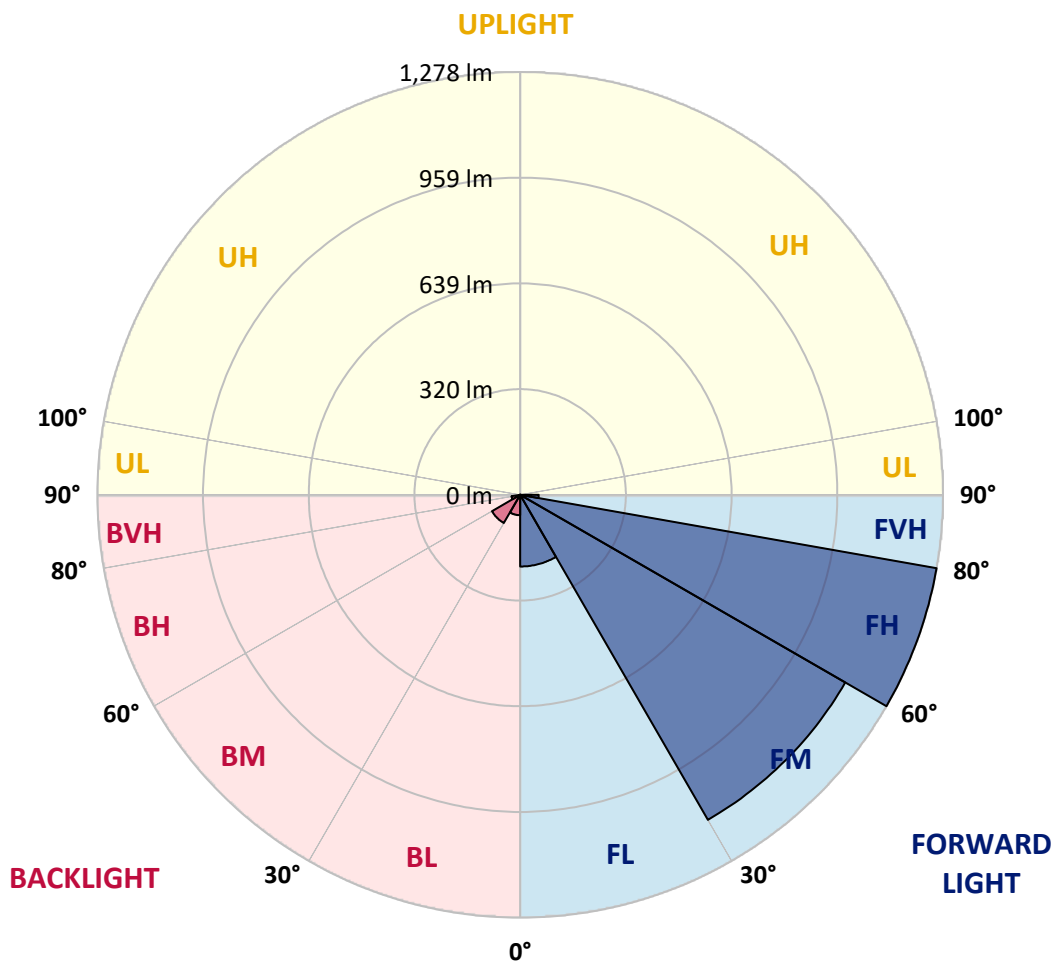
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.8	7.5			
FM	(30°-60°)	1134.7	39.5			
FH	(60°-80°)	1278.2	44.5			G1/1800
FVH	(80°-90°)	56.0	1.9			G1/100
BL	(0°-30°)	61.7	2.1	B0/110		
BM	(30°-60°)	98.6	3.4	B0/220		
BH	(60°-80°)	26.5	0.9	B0/110		G0/110
BVH	(80°-90°)	1.7	0.1			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°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	489.8	490.7	489.6	487.6	484.6	482.8	480.3	474.9	468.1	462.3	455.5
5°	493.7	494.1	492.8	488.9	484.4	481.9	478.8	472.9	465.9	457.7	445.5
7.5°	494.8	494.6	493.0	488.2	481.2	478.1	472.7	465.4	458.2	450.7	437.0
10°	494.3	494.3	493.2	488.7	480.8	477.9	471.8	464.1	455.0	447.6	432.9
12.5°	492.8	493.7	493.0	490.5	484.6	482.4	476.9	469.3	460.7	453.0	437.4
15°	494.8	496.2	497.5	496.6	493.2	491.2	486.2	478.3	471.3	463.2	446.4
17.5°	502.9	505.9	509.0	509.3	505.6	502.0	496.4	488.2	481.5	474.0	455.9
20°	518.3	520.6	526.4	527.6	520.3	515.1	507.2	497.7	491.0	484.6	464.7
22.5°	541.1	543.6	548.3	546.8	534.6	528.5	518.5	507.7	500.7	497.1	474.9
25°	575.7	576.4	577.5	570.5	550.4	543.6	531.4	519.2	513.5	513.1	489.4
27.5°	616.3	617.3	612.3	596.7	568.0	559.2	545.4	534.3	531.6	535.0	507.7
30°	662.9	663.1	649.3	624.0	588.3	578.6	564.4	552.2	554.7	563.0	531.2
32.5°	710.6	708.3	689.3	656.3	616.1	604.4	592.2	580.0	587.2	604.1	565.5
35°	754.2	753.3	730.9	692.5	652.3	641.9	633.1	620.2	631.9	659.5	612.3
37.5°	797.8	797.1	771.6	731.6	696.8	689.3	682.8	672.8	692.0	732.5	674.9
40°	845.9	844.8	813.4	775.0	748.5	744.5	740.6	736.3	769.1	825.3	752.8
42.5°	905.3	900.3	857.6	822.2	805.5	806.6	806.8	811.1	862.4	935.8	844.8
45°	973.6	962.5	902.2	872.8	868.0	874.8	881.6	899.4	971.1	1063.0	946.4
47.5°	1039.7	1021.9	953.4	927.2	936.9	951.0	967.2	1002.0	1093.1	1196.1	1038.6
50°	1096.7	1078.4	1004.3	982.6	1013.5	1034.3	1063.2	1115.9	1221.9	1308.6	1096.7
52.5°	1141.4	1127.0	1058.1	1043.6	1098.5	1127.0	1172.4	1241.5	1343.4	1382.7	1137.4
55°	1174.4	1167.2	1109.6	1111.6	1192.9	1234.1	1290.5	1368.7	1446.0	1440.3	1167.9
57.5°	1211.7	1206.0	1163.6	1191.8	1306.6	1359.7	1425.0	1487.8	1520.5	1486.6	1197.7
60°	1249.9	1251.7	1229.1	1289.0	1447.1	1505.9	1562.8	1578.4	1584.5	1533.6	1229.1
62.5°	1278.8	1286.5	1288.5	1393.8	1591.3	1641.4	1666.0	1655.0	1653.6	1596.7	1226.6
65°	1312.0	1332.1	1365.5	1508.8	1722.3	1755.3	1772.9	1788.9	1755.1	1615.4	1105.9
67.5°	1369.4	1401.0	1476.3	1649.8	1873.7	1922.5	1972.4	1955.5	1770.2	1425.0	842.5
70°	1446.7	1485.3	1618.1	1833.9	2079.0	2160.8	2202.6	1942.1	1502.9	984.6	444.4
72°	1397.9	1432.9	1662.0	1927.9	2224.5	2299.6	2195.0	1694.1	1089.5	510.4	148.9
72.5°	1350.4	1386.6	1648.0	1926.8	2239.0	2296.4	2145.0	1596.2	964.1	397.2	102.6
75°	936.9	982.6	1412.8	1732.0	2021.9	1958.9	1641.2	966.5	349.3	68.2	33.9
77.5°	484.4	519.6	857.0	1223.9	1409.2	1290.5	969.9	419.3	96.7	36.1	22.4
80°	300.3	317.7	400.8	603.0	732.0	640.3	427.9	169.5	61.9	21.5	17.8
82.5°	155.4	168.8	252.4	243.3	270.4	224.8	157.9	141.9	38.2	13.3	18.3
85°	51.1	54.2	155.0	161.8	115.7	77.7	70.0	135.3	11.1	8.6	15.6
87.5°	6.8	7.9	54.5	92.6	56.9	35.2	42.0	47.7	3.8	4.7	4.3
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°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	451.0	448.0	438.8	429.5	418.9	409.2	401.5	396.5	398.8	391.3	392.4
5°	438.1	430.6	410.3	388.4	364.7	342.5	324.9	311.8	309.3	298.0	298.5
7.5°	425.7	413.5	380.5	344.3	305.0	273.2	244.2	218.9	209.9	200.6	195.2
10°	418.9	402.2	355.4	302.8	247.4	200.6	160.0	128.1	114.8	105.1	100.3
12.5°	420.9	398.8	336.6	265.0	192.3	132.8	90.4	67.1	59.0	54.5	52.9
15°	427.7	399.5	319.7	228.2	139.9	80.4	53.1	45.4	44.7	44.5	44.3
17.5°	434.0	400.1	301.8	189.8	93.5	51.3	42.7	42.0	42.0	42.0	42.0
20°	440.6	400.4	282.2	149.6	61.5	42.0	40.2	39.8	40.2	40.2	40.2
22.5°	448.3	401.9	263.2	110.5	45.4	39.5	38.4	38.2	38.4	38.4	38.2
25°	457.7	405.3	242.7	79.1	41.1	38.0	36.8	36.6	36.8	36.6	36.6
27.5°	470.4	409.8	218.7	56.7	39.3	36.4	35.2	35.2	35.2	35.0	35.0
30°	486.7	415.3	186.6	44.7	37.5	34.8	33.9	33.9	33.7	33.4	33.4
32.5°	509.9	424.1	151.6	40.4	35.5	32.8	31.9	32.1	31.9	31.6	31.4
35°	542.9	437.9	117.0	38.2	33.4	30.7	29.8	29.8	29.8	29.4	29.4
37.5°	589.7	458.9	87.7	35.9	31.4	28.7	27.6	27.6	27.3	26.9	27.1
40°	647.5	485.3	63.5	33.9	29.4	26.4	25.5	25.1	24.6	24.2	24.2
42.5°	717.1	511.1	47.7	31.9	27.3	24.6	23.5	23.0	22.1	21.7	21.5
45°	795.1	538.4	39.5	29.4	25.1	22.6	21.7	20.8	19.7	19.0	18.8
47.5°	860.8	555.1	35.2	26.9	22.8	20.6	19.7	18.3	16.9	16.5	16.5
50°	900.3	548.1	31.6	24.4	20.6	18.5	17.4	15.6	14.7	14.2	14.0
52.5°	922.5	527.3	28.7	22.4	18.5	16.3	14.7	13.1	12.7	12.2	12.2
55°	937.6	497.3	25.5	20.3	16.7	14.2	12.4	11.3	10.8	10.6	10.4
57.5°	952.1	460.7	22.6	18.5	14.9	12.7	10.6	10.2	9.3	9.0	9.0
60°	956.4	410.3	19.9	16.5	13.3	11.1	9.3	8.6	7.7	7.5	7.5
62.5°	901.7	326.5	17.6	14.0	11.7	9.5	8.1	7.2	6.3	6.3	6.3
65°	753.5	221.6	15.1	12.2	10.4	8.1	7.0	5.9	5.4	5.4	5.4
67.5°	524.8	123.6	12.9	10.4	8.8	6.8	5.9	5.0	4.7	5.0	5.0
70°	236.6	49.0	10.8	8.6	7.2	5.6	5.0	4.3	4.7	4.7	4.7
72°	70.9	26.2	9.0	7.0	5.9	5.0	4.3	4.1	4.5	4.7	4.7
72.5°	52.6	23.5	8.6	6.8	5.9	4.7	4.1	4.1	4.5	4.7	4.7
75°	27.1	16.0	6.6	5.0	4.3	3.8	3.4	3.8	4.5	4.5	4.5
77.5°	21.2	13.1	5.4	3.8	3.6	3.4	3.2	3.6	4.1	4.1	4.1
80°	19.9	8.6	4.3	3.6	3.2	2.9	2.9	3.2	3.6	3.8	3.8
82.5°	20.1	7.0	3.8	3.4	2.9	2.7	2.7	2.9	3.4	3.6	3.6
85°	12.9	4.7	3.4	2.9	2.7	2.5	2.5	2.7	3.2	3.4	3.4
87.5°	4.3	3.6	2.9	2.7	2.3	2.3	2.3	2.3	2.7	2.9	3.2
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)