

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: P199202

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199202
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-SL4-8030-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 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: 2650 lumens
Efficiency: N/A
Efficacy: 77.9 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

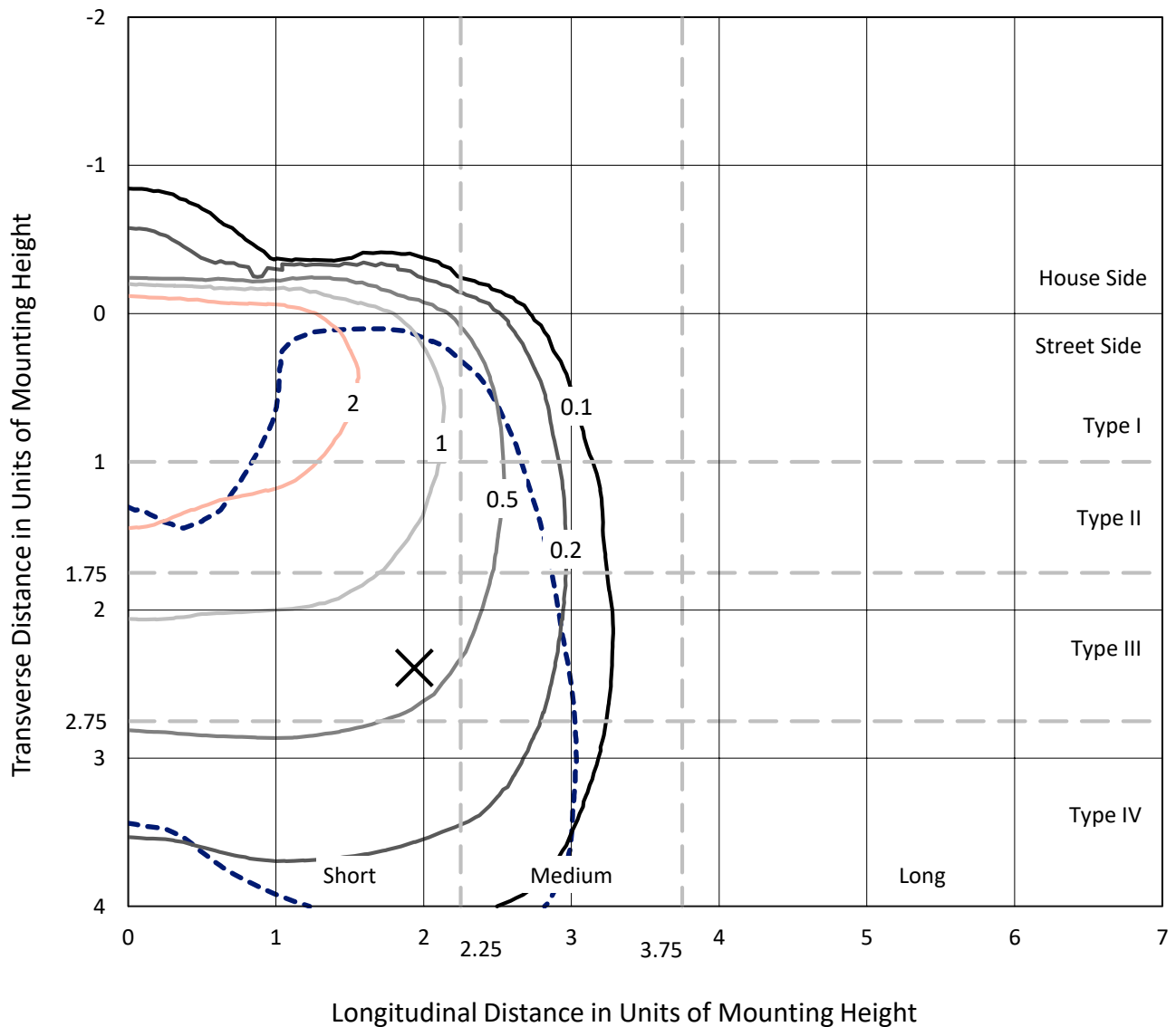


REPORT NUMBER: P199202

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

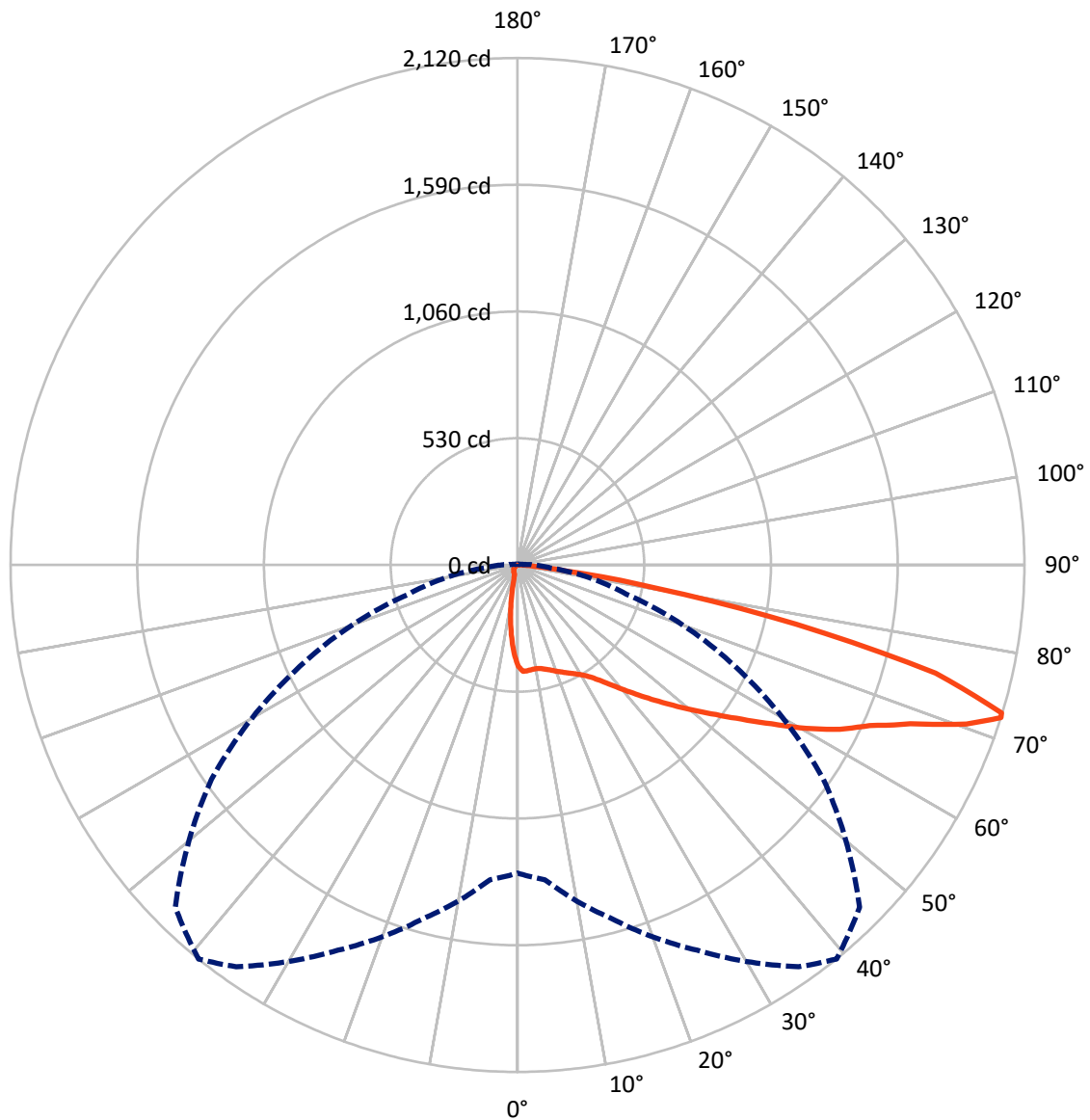


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P199202

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P199202

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

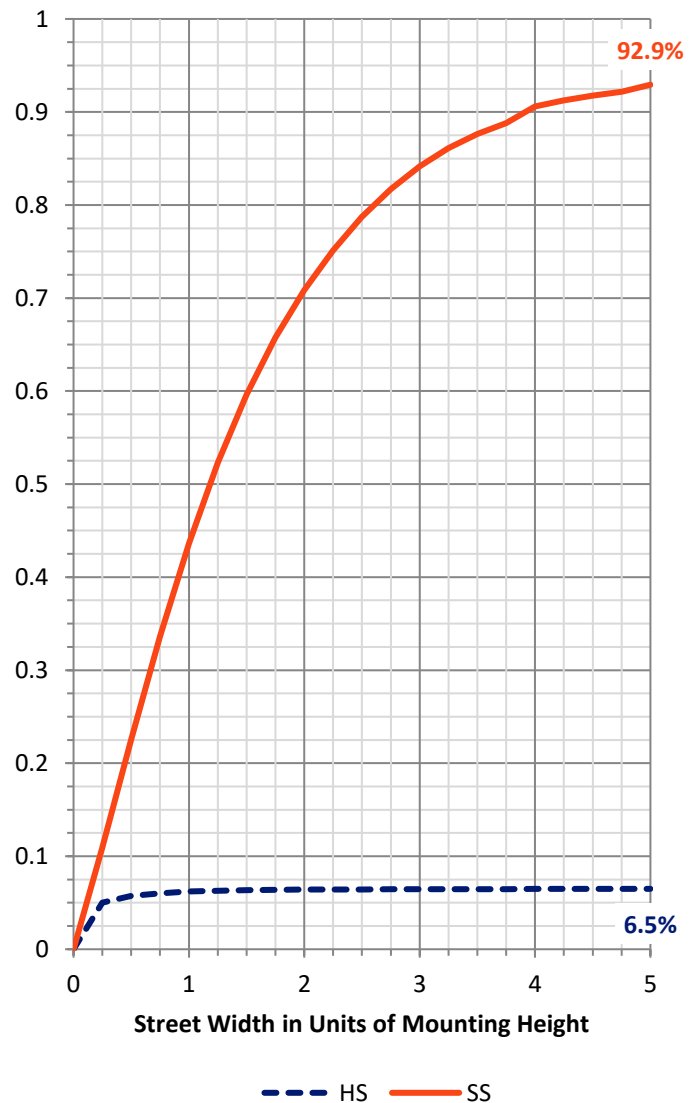
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	173.7	0.0	173.7
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	2476.3	0.0	2476.3
	% Fixture	93.4	0.0	93.4
Total	Lumens	2650.0	0.0	2650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.3
10°-20°	83.5	3.2
20°-30°	138.7	5.2
30°-40°	221.1	8.3
40°-50°	364.9	13.8
50°-60°	551.1	20.8
60°-70°	717.9	27.1
70°-80°	485.1	18.3
80°-90°	53.1	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°	2650.0	100.0
0°-180°	2650.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199202

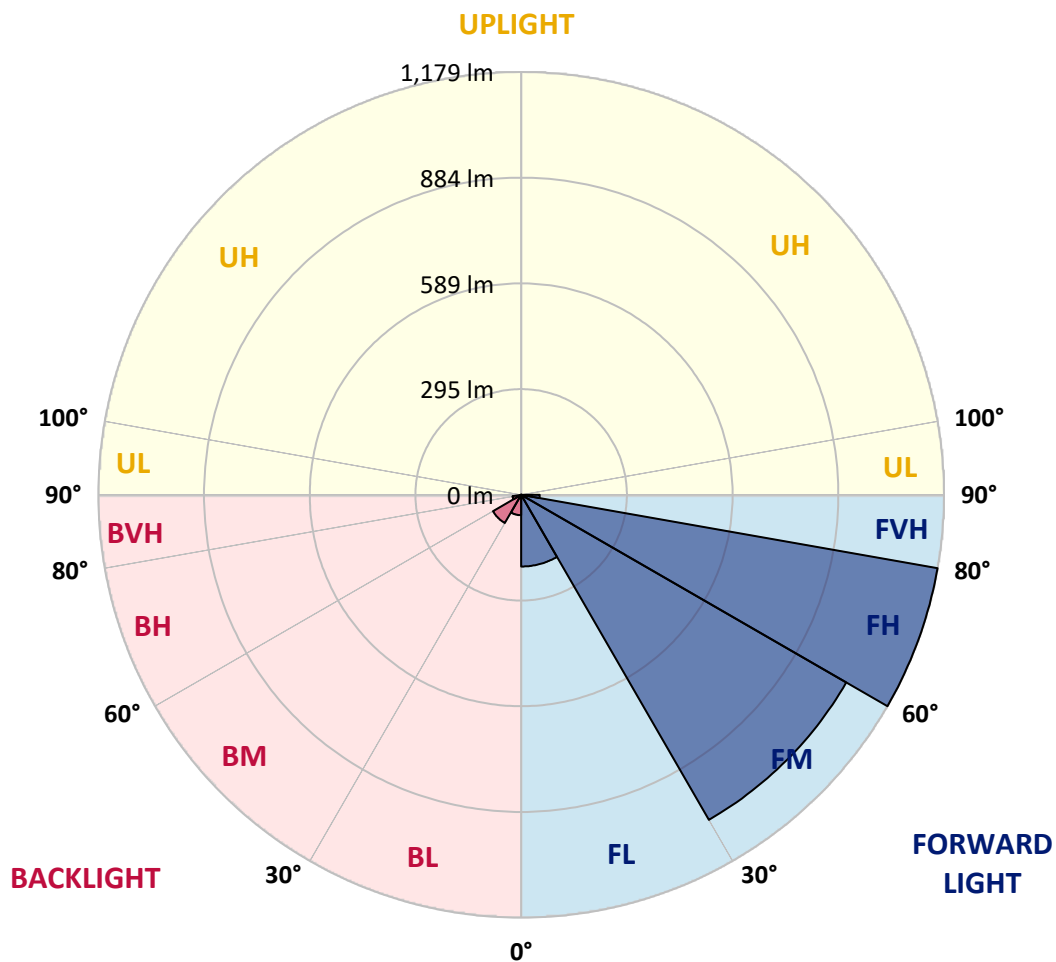
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.9	7.5			
FM	(30°-60°)	1046.3	39.5			
FH	(60°-80°)	1178.6	44.5			G1/1800
FVH	(80°-90°)	51.6	1.9			G1/100
BL	(0°-30°)	56.9	2.1	B0/110		
BM	(30°-60°)	90.9	3.4	B0/220		
BH	(60°-80°)	24.4	0.9	B0/110		G0/110
BVH	(80°-90°)	1.5	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





REPORT NUMBER: P199202

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	451.6	452.5	451.4	449.6	446.9	445.2	442.9	437.9	431.6	426.2	420.0
5°	455.2	455.6	454.4	450.8	446.6	444.4	441.4	436.0	429.6	422.1	410.8
7.5°	456.2	456.0	454.6	450.2	443.7	440.8	435.8	429.1	422.5	415.6	402.9
10°	455.8	455.8	454.8	450.6	443.3	440.6	435.0	427.9	419.6	412.7	399.2
12.5°	454.4	455.2	454.6	452.3	446.9	444.8	439.8	432.7	424.8	417.7	403.3
15°	456.2	457.5	458.7	457.9	454.8	452.9	448.3	441.0	434.6	427.1	411.7
17.5°	463.7	466.4	469.4	469.6	466.2	462.9	457.7	450.2	443.9	437.1	420.4
20°	477.9	480.0	485.4	486.4	479.8	475.0	467.7	458.9	452.7	446.9	428.5
22.5°	498.9	501.2	505.6	504.1	492.9	487.3	478.1	468.1	461.6	458.3	437.9
25°	530.8	531.4	532.5	526.0	507.5	501.2	490.0	478.7	473.5	473.1	451.2
27.5°	568.3	569.1	564.6	550.2	523.7	515.6	502.9	492.7	490.2	493.3	468.1
30°	611.2	611.4	598.7	575.4	542.5	533.5	520.4	509.1	511.4	519.1	489.8
32.5°	655.2	653.1	635.6	605.2	568.1	557.3	546.0	534.8	541.4	557.1	521.4
35°	695.4	694.6	673.9	638.5	601.4	591.9	583.7	571.9	582.7	608.1	564.6
37.5°	735.6	735.0	711.4	674.6	642.5	635.6	629.6	620.4	638.1	675.4	622.3
40°	780.0	778.9	750.0	714.6	690.2	686.4	682.9	678.9	709.1	761.0	694.1
42.5°	834.8	830.2	790.8	758.1	742.7	743.7	743.9	747.9	795.2	862.9	778.9
45°	897.7	887.5	831.8	804.8	800.4	806.6	812.9	829.3	895.4	980.2	872.7
47.5°	958.7	942.3	879.1	855.0	863.9	876.8	891.8	923.9	1007.9	1102.9	957.7
50°	1011.2	994.3	926.0	906.0	934.5	953.7	980.4	1028.9	1126.6	1206.6	1011.2
52.5°	1052.5	1039.1	975.6	962.3	1012.9	1039.1	1081.0	1144.7	1238.7	1274.9	1048.7
55°	1082.9	1076.2	1023.1	1025.0	1100.0	1137.9	1190.0	1262.0	1333.3	1328.1	1076.8
57.5°	1117.2	1112.0	1072.9	1098.9	1204.7	1253.7	1313.9	1371.8	1402.0	1370.8	1104.3
60°	1152.5	1154.1	1133.3	1188.5	1334.3	1388.5	1441.0	1455.4	1461.0	1414.1	1133.3
62.5°	1179.1	1186.2	1188.1	1285.2	1467.2	1513.5	1536.2	1526.0	1524.7	1472.2	1131.0
65°	1209.7	1228.3	1259.1	1391.2	1588.1	1618.5	1634.7	1649.5	1618.3	1489.5	1019.8
67.5°	1262.7	1291.8	1361.2	1521.2	1727.6	1772.6	1818.7	1803.1	1632.2	1313.9	776.8
70°	1333.9	1369.5	1492.0	1691.0	1917.0	1992.4	2031.0	1790.8	1385.8	907.9	409.8
72°	1288.9	1321.2	1532.4	1777.6	2051.2	2120.3	2023.9	1562.0	1004.5	470.6	137.3
72.5°	1245.2	1278.5	1519.5	1776.6	2064.5	2117.4	1977.8	1471.8	888.9	366.2	94.6
75°	863.9	906.0	1302.7	1597.0	1864.3	1806.2	1513.3	891.2	322.1	62.9	31.2
77.5°	446.6	479.1	790.2	1128.5	1299.3	1190.0	894.3	386.7	89.2	33.3	20.6
80°	276.9	292.9	369.6	556.0	675.0	590.4	394.6	156.2	57.1	19.8	16.5
82.5°	143.3	155.6	232.7	224.4	249.4	207.3	145.6	130.8	35.2	12.3	16.9
85°	47.1	50.0	142.9	149.2	106.7	71.7	64.6	124.8	10.2	7.9	14.4
87.5°	6.2	7.3	50.2	85.4	52.5	32.5	38.7	44.0	3.5	4.4	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199202

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	415.8	413.1	404.6	396.0	386.2	377.3	370.2	365.6	367.7	360.8	361.9
5°	403.9	397.1	378.3	358.1	336.2	315.8	299.6	287.5	285.2	274.8	275.2
7.5°	392.5	381.2	350.8	317.5	281.2	251.9	225.2	201.9	193.5	185.0	180.0
10°	386.2	370.8	327.7	279.2	228.1	185.0	147.5	118.1	105.8	96.9	92.5
12.5°	388.1	367.7	310.4	244.4	177.3	122.5	83.3	61.9	54.4	50.2	48.7
15°	394.4	368.3	294.8	210.4	129.0	74.2	49.0	41.9	41.2	41.0	40.8
17.5°	400.2	368.9	278.3	175.0	86.2	47.3	39.4	38.7	38.7	38.7	38.7
20°	406.2	369.2	260.2	137.9	56.7	38.7	37.1	36.7	37.1	37.1	37.1
22.5°	413.3	370.6	242.7	101.9	41.9	36.5	35.4	35.2	35.4	35.4	35.2
25°	422.1	373.7	223.7	72.9	37.9	35.0	34.0	33.7	34.0	33.7	33.7
27.5°	433.7	377.9	201.7	52.3	36.2	33.5	32.5	32.5	32.5	32.3	32.3
30°	448.7	382.9	172.1	41.2	34.6	32.1	31.2	31.2	31.0	30.8	30.8
32.5°	470.2	391.0	139.8	37.3	32.7	30.2	29.4	29.6	29.4	29.2	29.0
35°	500.6	403.7	107.9	35.2	30.8	28.3	27.5	27.5	27.5	27.1	27.1
37.5°	543.7	423.1	80.8	33.1	29.0	26.5	25.4	25.4	25.2	24.8	25.0
40°	597.1	447.5	58.5	31.2	27.1	24.4	23.5	23.1	22.7	22.3	22.3
42.5°	661.2	471.2	44.0	29.4	25.2	22.7	21.7	21.2	20.4	20.0	19.8
45°	733.1	496.4	36.5	27.1	23.1	20.8	20.0	19.2	18.1	17.5	17.3
47.5°	793.7	511.9	32.5	24.8	21.0	19.0	18.1	16.9	15.6	15.2	15.2
50°	830.2	505.4	29.2	22.5	19.0	17.1	16.0	14.4	13.5	13.1	12.9
52.5°	850.6	486.2	26.5	20.6	17.1	15.0	13.5	12.1	11.7	11.2	11.2
55°	864.5	458.5	23.5	18.7	15.4	13.1	11.5	10.4	10.0	9.8	9.6
57.5°	877.9	424.8	20.8	17.1	13.7	11.7	9.8	9.4	8.5	8.3	8.3
60°	881.8	378.3	18.3	15.2	12.3	10.2	8.5	7.9	7.1	6.9	6.9
62.5°	831.4	301.0	16.2	12.9	10.8	8.7	7.5	6.7	5.8	5.8	5.8
65°	694.8	204.4	14.0	11.2	9.6	7.5	6.5	5.4	5.0	5.0	5.0
67.5°	483.9	114.0	11.9	9.6	8.1	6.2	5.4	4.6	4.4	4.6	4.6
70°	218.1	45.2	10.0	7.9	6.7	5.2	4.6	4.0	4.4	4.4	4.4
72°	65.4	24.2	8.3	6.5	5.4	4.6	4.0	3.7	4.2	4.4	4.4
72.5°	48.5	21.7	7.9	6.2	5.4	4.4	3.7	3.7	4.2	4.4	4.4
75°	25.0	14.8	6.0	4.6	4.0	3.5	3.1	3.5	4.2	4.2	4.2
77.5°	19.6	12.1	5.0	3.5	3.3	3.1	2.9	3.3	3.7	3.7	3.7
80°	18.3	7.9	4.0	3.3	2.9	2.7	2.7	2.9	3.3	3.5	3.5
82.5°	18.5	6.5	3.5	3.1	2.7	2.5	2.5	2.7	3.1	3.3	3.3
85°	11.9	4.4	3.1	2.7	2.5	2.3	2.3	2.5	2.9	3.1	3.1
87.5°	4.0	3.3	2.7	2.5	2.1	2.1	2.1	2.1	2.5	2.7	2.9
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)