

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: McGRAW-EDISON

Report Number: P450209

Luminaire Tested: **GALN-SA1A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3098 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

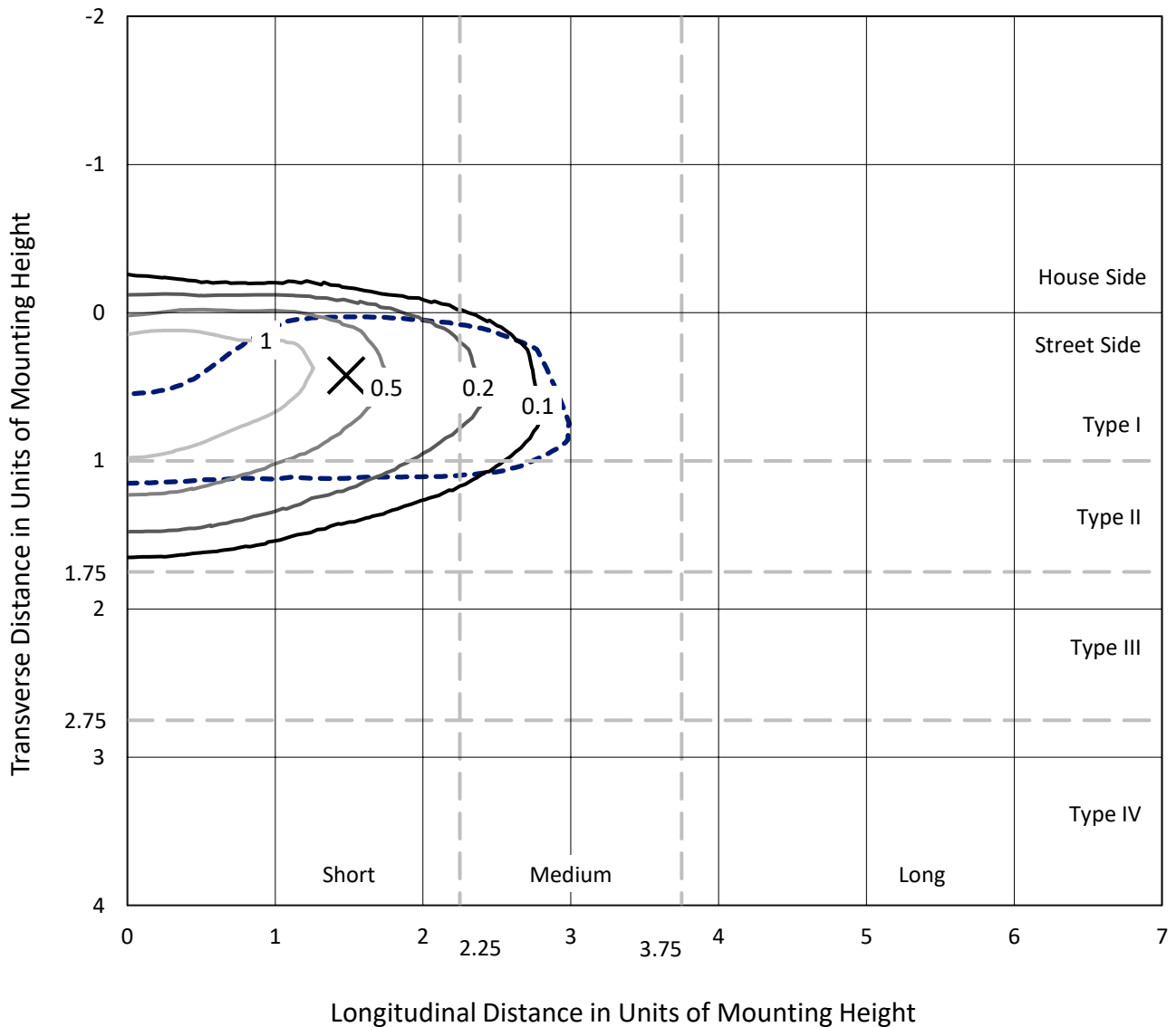
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450209
 CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

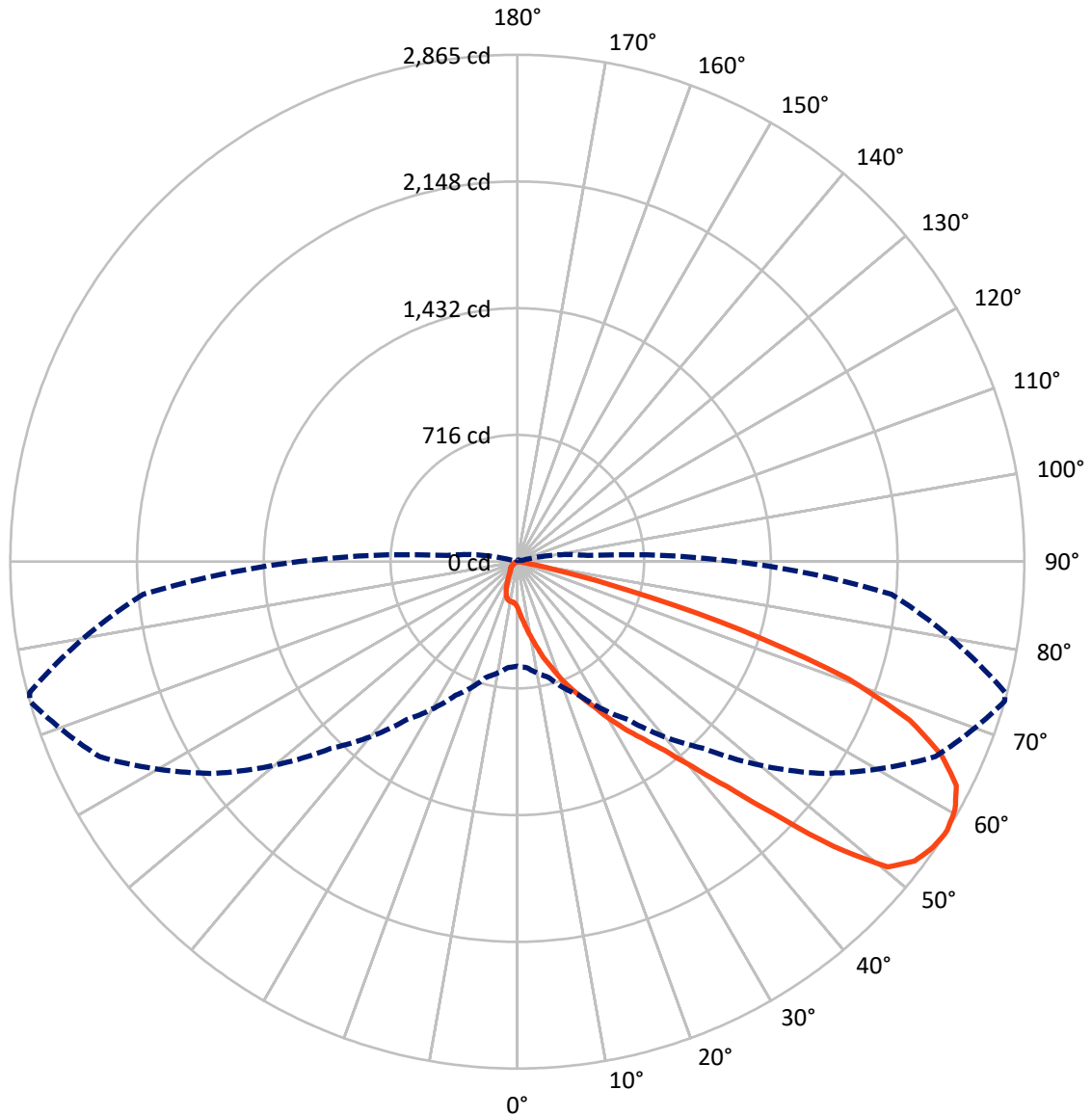
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

REPORT NUMBER: P450209
CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P450209
 CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

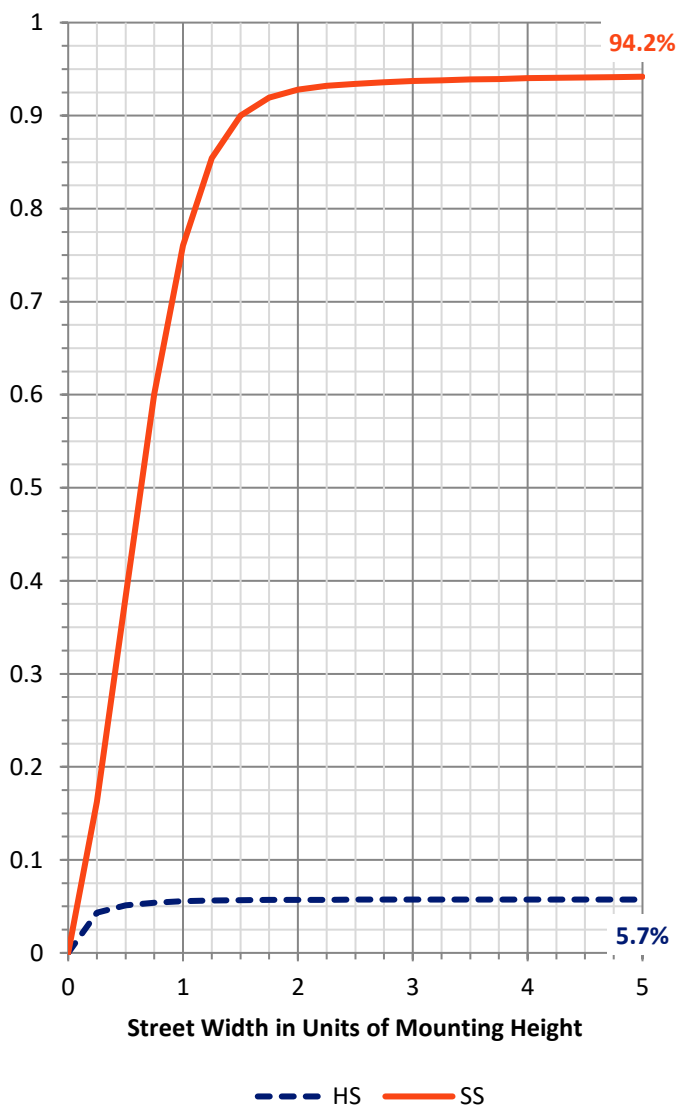
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	178.7	0.0	178.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	2919.3	0.0	2919.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	3098.0	0.0	3098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	1.0
10°-20°	123.4	4.0
20°-30°	264.1	8.5
30°-40°	485.5	15.7
40°-50°	744.2	24.0
50°-60°	787.3	25.4
60°-70°	514.1	16.6
70°-80°	140.5	4.5
80°-90°	7.6	0.2
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°	3098.0	100.0
0°-180°	3098.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450209

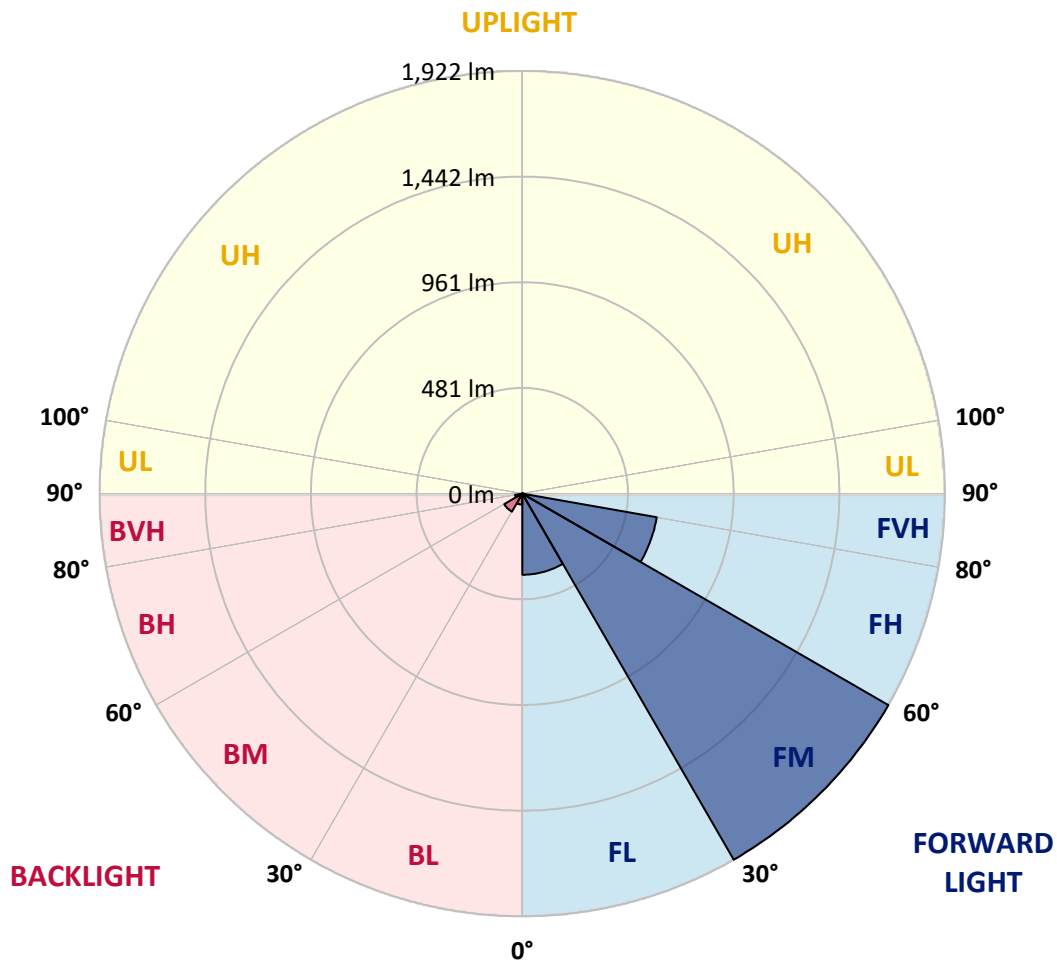
CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.0	11.9			
FM (30°-60°)	1922.4	62.1			
FH (60°-80°)	621.0	20.0			G0/660
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	49.9	1.6	B0/110		
BM (30°-60°)	94.6	3.1	B0/220		
BH (60°-80°)	33.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





REPORT NUMBER: P450209

CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5
2.5°	379.7	376.2	369.4	367.0	357.0	341.4	327.7	309.3	294.7	293.2	275.7
5°	508.4	500.7	497.5	482.1	457.9	435.3	396.3	366.8	332.8	330.3	295.0
7.5°	632.5	621.8	618.6	604.0	575.8	540.1	489.6	435.9	382.0	377.1	320.8
10°	722.3	723.8	718.0	708.4	685.5	649.2	586.9	513.6	436.8	430.6	349.9
12.5°	786.7	786.5	787.6	787.3	775.2	747.6	682.1	597.6	497.1	484.9	383.3
15°	828.6	829.3	832.5	843.6	844.9	827.8	773.2	678.0	567.0	551.8	419.4
17.5°	871.0	875.5	880.6	891.1	900.5	893.6	855.1	761.9	630.3	619.0	458.2
20°	940.9	947.1	944.1	950.5	955.5	956.1	926.4	839.3	707.1	688.1	502.4
22.5°	1052.8	1052.6	1044.9	1033.3	1023.7	1023.3	996.3	918.9	776.9	758.5	546.9
25°	1194.2	1194.8	1179.8	1146.9	1122.9	1093.6	1062.6	988.6	851.5	828.8	593.8
27.5°	1356.3	1352.2	1329.6	1284.2	1236.7	1186.7	1142.0	1069.7	930.7	911.8	647.5
30°	1502.0	1500.5	1473.9	1418.5	1356.1	1305.8	1241.0	1171.3	1033.1	1010.0	707.6
32.5°	1637.6	1639.7	1602.9	1545.6	1485.3	1427.3	1358.9	1268.4	1133.6	1100.9	773.0
35°	1743.5	1745.6	1707.5	1659.8	1597.8	1549.7	1484.4	1371.9	1232.9	1205.3	848.3
37.5°	1799.9	1802.7	1780.7	1744.7	1706.0	1681.8	1621.1	1505.2	1353.5	1336.8	937.3
40°	1810.6	1813.8	1804.2	1794.6	1792.4	1809.8	1792.0	1662.2	1520.8	1494.7	1069.9
42.5°	1778.5	1782.8	1787.1	1808.5	1852.1	1915.6	1977.5	1875.2	1736.2	1701.1	1232.0
45°	1694.3	1693.8	1710.7	1766.1	1863.9	1999.5	2171.2	2141.9	2029.6	1987.9	1461.1
47.5°	1550.1	1548.0	1584.5	1663.5	1815.7	2014.9	2329.3	2465.8	2404.2	2365.7	1707.3
50°	1330.4	1340.9	1398.4	1508.6	1696.2	1968.3	2378.1	2678.2	2711.5	2670.7	1906.2
52.5°	1073.1	1072.7	1162.9	1312.5	1519.1	1865.6	2344.1	2716.7	2811.4	2780.2	2004.2
55°	794.2	799.7	893.6	1044.4	1289.1	1678.2	2233.1	2677.1	2849.5	2827.5	2068.8
57°	590.8	600.6	675.9	835.5	1088.9	1492.8	2085.3	2606.3	2864.5	2852.5	2122.5
57.5°	551.4	551.8	625.2	770.2	1030.3	1421.5	2042.9	2576.8	2864.0	2857.4	2131.2
60°	339.4	350.1	400.8	520.6	754.2	1109.5	1759.1	2407.2	2841.8	2851.4	2168.7
62.5°	203.2	207.7	240.6	313.8	486.2	809.8	1439.5	2190.1	2783.8	2813.1	2166.1
65°	130.7	131.8	146.7	189.9	303.9	547.4	1109.3	1903.2	2633.9	2687.8	2081.4
67.5°	101.0	102.7	108.7	124.7	176.2	340.9	784.6	1597.1	2391.3	2460.9	1876.1
70°	89.6	90.5	92.6	97.7	116.6	192.5	488.1	1247.6	1983.0	2002.7	1468.2
72.5°	73.2	75.5	82.1	83.8	92.4	120.2	271.6	837.4	1332.3	1337.3	821.4
75°	56.7	57.1	66.9	71.9	77.9	82.8	121.3	422.2	640.0	605.7	316.6
77.5°	42.4	44.3	48.8	55.0	63.5	59.2	54.3	159.1	198.7	195.1	92.0
80°	27.2	28.2	34.0	41.3	49.4	38.7	30.6	46.6	43.6	44.9	22.0
82.5°	13.7	13.9	21.8	33.6	31.4	19.5	19.3	19.0	16.3	16.0	10.3
85°	1.5	3.2	14.1	19.3	14.1	6.4	9.0	8.8	8.6	8.8	6.0
87.5°	0.2	0.2	2.4	2.8	1.9	2.1	2.6	2.8	3.4	3.2	2.6
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: P450209

CATALOG NUMBER: GALN-SA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5
2.5°	267.2	258.6	242.8	227.6	216.2	209.0	199.6	196.1	191.2	190.6	188.2
5°	278.7	262.4	234.9	213.0	195.5	182.2	170.7	161.1	153.4	151.7	152.5
7.5°	295.2	271.0	232.5	202.8	178.4	155.7	137.3	126.0	117.9	114.9	115.3
10°	313.8	282.3	232.1	191.9	154.6	126.8	106.7	96.7	92.0	90.3	88.3
12.5°	335.8	295.4	231.0	175.0	128.6	101.2	86.8	80.9	76.4	75.1	75.1
15°	360.6	309.3	225.9	154.0	104.4	83.6	74.0	69.3	67.8	66.5	66.5
17.5°	386.5	323.0	215.2	128.1	86.6	71.7	65.7	62.9	60.7	59.2	59.2
20°	416.0	336.5	198.1	105.2	73.2	64.0	59.2	56.0	54.3	53.0	52.6
22.5°	444.0	347.4	176.2	86.4	63.7	57.5	53.3	49.8	48.1	47.5	47.5
25°	473.1	354.0	149.9	71.4	58.2	52.2	47.5	44.7	43.2	42.8	42.6
27.5°	501.4	357.8	126.8	62.5	53.0	47.3	42.8	40.6	39.1	38.7	38.9
30°	535.6	358.5	104.4	56.0	48.6	42.6	38.5	36.6	35.7	35.3	35.1
32.5°	570.2	357.6	87.7	52.2	44.3	38.5	35.1	33.6	32.9	32.3	32.3
35°	609.2	353.1	74.6	48.3	40.2	35.1	32.1	30.8	29.9	29.3	29.1
37.5°	657.5	350.8	67.2	44.1	36.6	31.9	29.1	27.8	27.2	26.3	26.1
40°	733.7	361.3	64.8	40.2	32.9	28.9	26.3	24.8	24.0	23.1	22.9
42.5°	828.6	379.7	61.0	36.4	29.7	26.1	23.5	21.8	20.3	19.3	18.8
45°	951.6	403.8	55.0	32.3	27.0	23.1	20.7	18.6	16.7	15.8	15.6
47.5°	1080.6	427.1	49.6	29.1	24.0	20.5	18.0	15.6	13.9	13.3	13.0
50°	1159.7	431.9	46.2	25.5	21.0	17.8	15.2	13.0	12.0	11.3	11.3
52.5°	1195.9	424.4	41.5	22.2	18.2	15.6	13.0	11.3	10.7	10.3	10.1
55°	1221.1	412.8	35.3	19.3	15.6	13.3	11.6	10.3	9.4	9.0	8.8
57°	1235.9	397.2	30.6	16.9	13.5	11.6	10.3	9.2	8.3	7.5	7.5
57.5°	1236.5	391.2	29.3	16.7	12.8	11.1	10.1	9.0	7.9	7.1	6.8
60°	1217.5	350.1	23.5	14.1	10.3	9.4	8.3	7.1	5.6	4.7	4.5
62.5°	1156.3	298.0	19.5	12.0	8.3	7.3	6.0	5.3	3.9	2.8	2.8
65°	1063.7	241.7	16.7	9.6	6.8	5.3	4.1	3.9	2.4	1.3	1.1
67.5°	929.8	188.2	14.1	7.9	5.8	3.9	2.8	2.6	1.3	0.4	0.0
70°	708.4	128.3	11.8	6.4	4.3	2.8	1.9	1.5	0.9	0.2	0.0
72.5°	408.3	70.6	9.8	4.9	3.2	2.1	1.5	0.9	0.9	0.0	0.0
75°	145.9	30.4	7.5	3.6	2.6	1.7	1.1	0.4	0.6	0.2	0.0
77.5°	46.4	16.3	4.9	2.8	2.1	1.3	0.9	0.4	0.4	0.2	0.0
80°	13.7	8.6	3.0	2.4	1.5	1.1	0.6	0.2	0.4	0.2	0.0
82.5°	7.5	4.3	2.4	1.7	1.5	0.9	0.6	0.2	0.2	0.2	0.0
85°	3.9	2.6	1.9	1.7	1.5	0.9	0.6	0.2	0.0	0.2	0.2
87.5°	2.1	1.9	1.9	1.7	1.5	1.1	0.6	0.2	0.0	0.0	0.0
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)