

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: P652172

Luminaire Tested: **GALN-SA1B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 3983 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

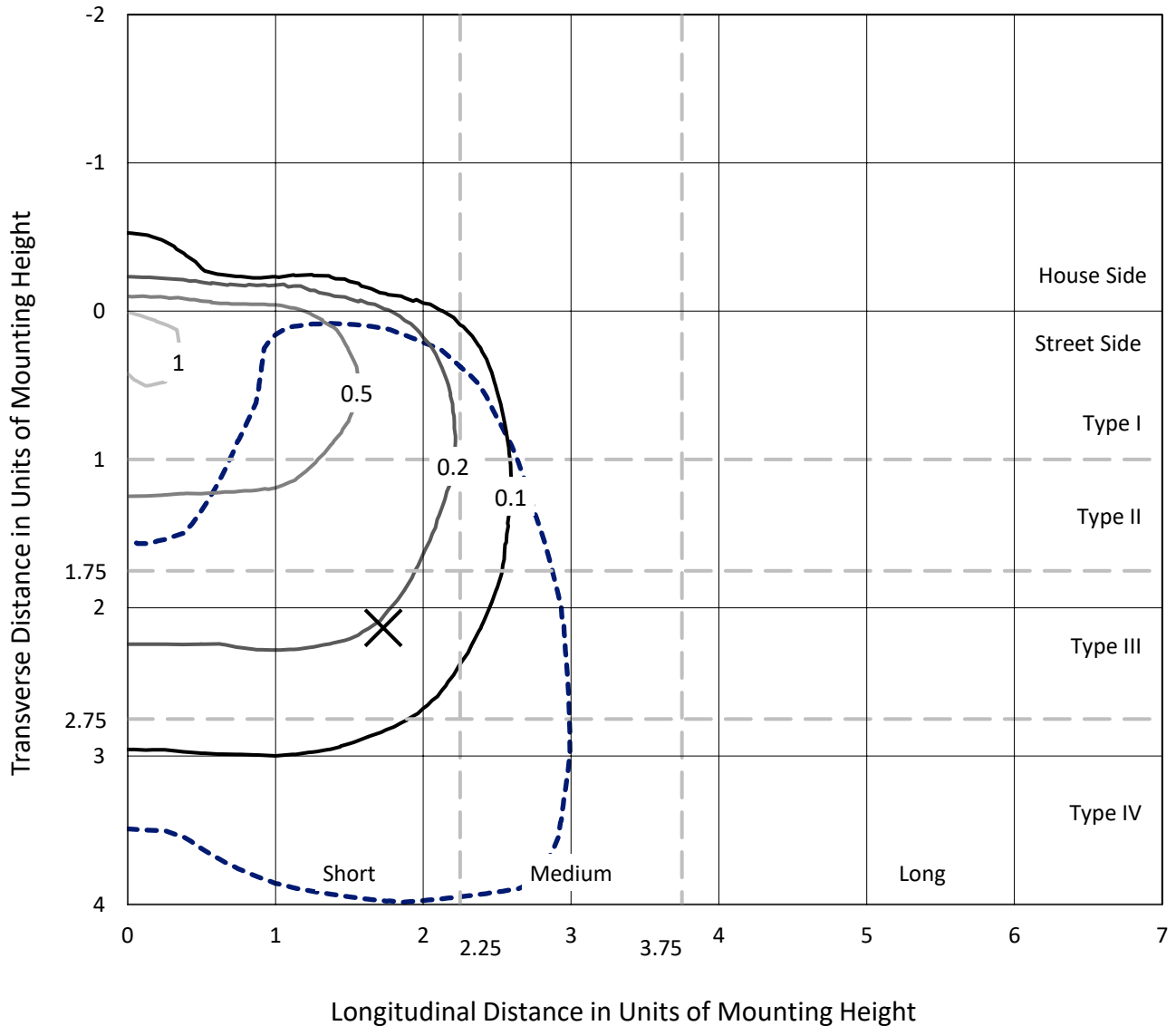
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

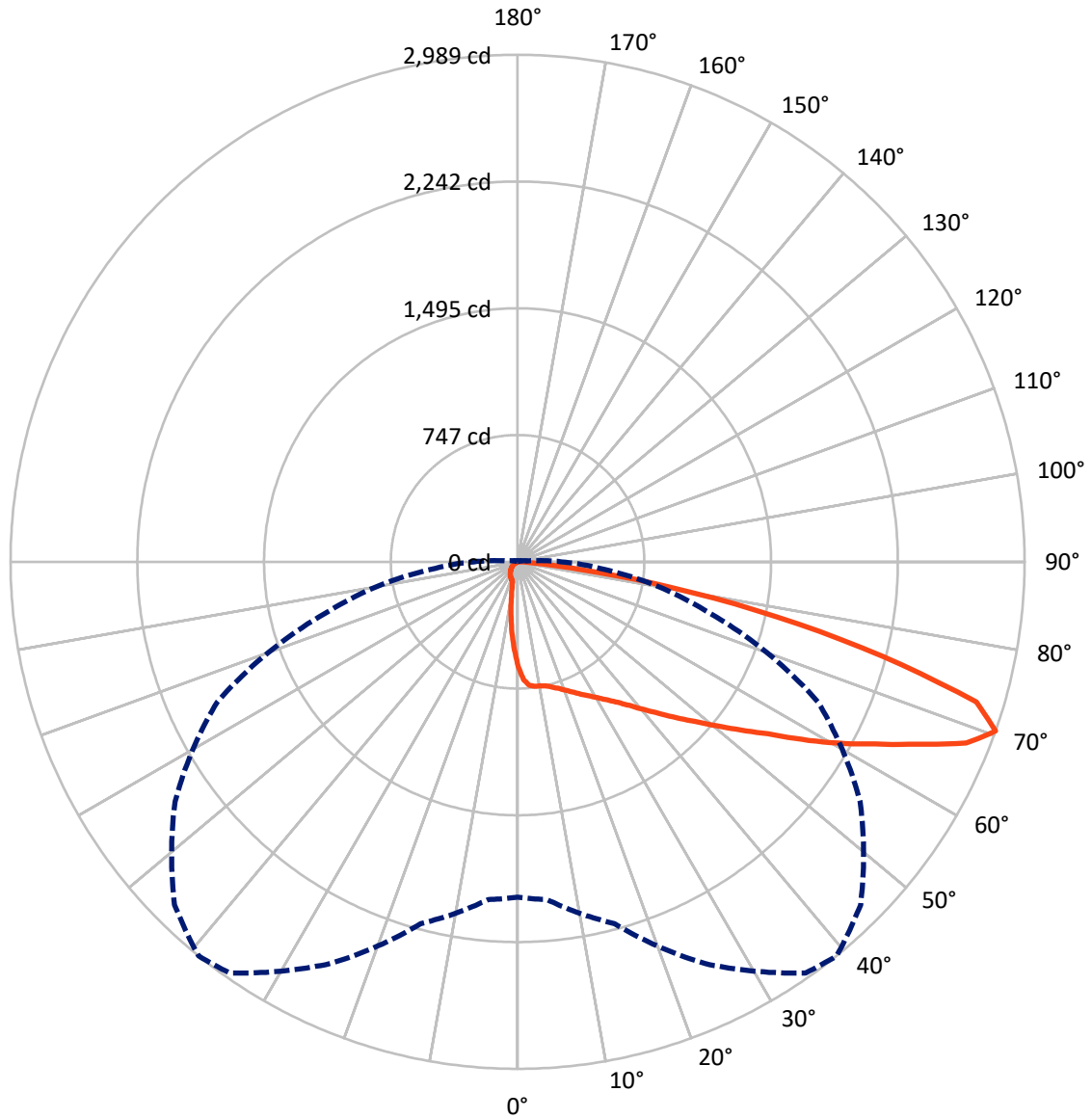
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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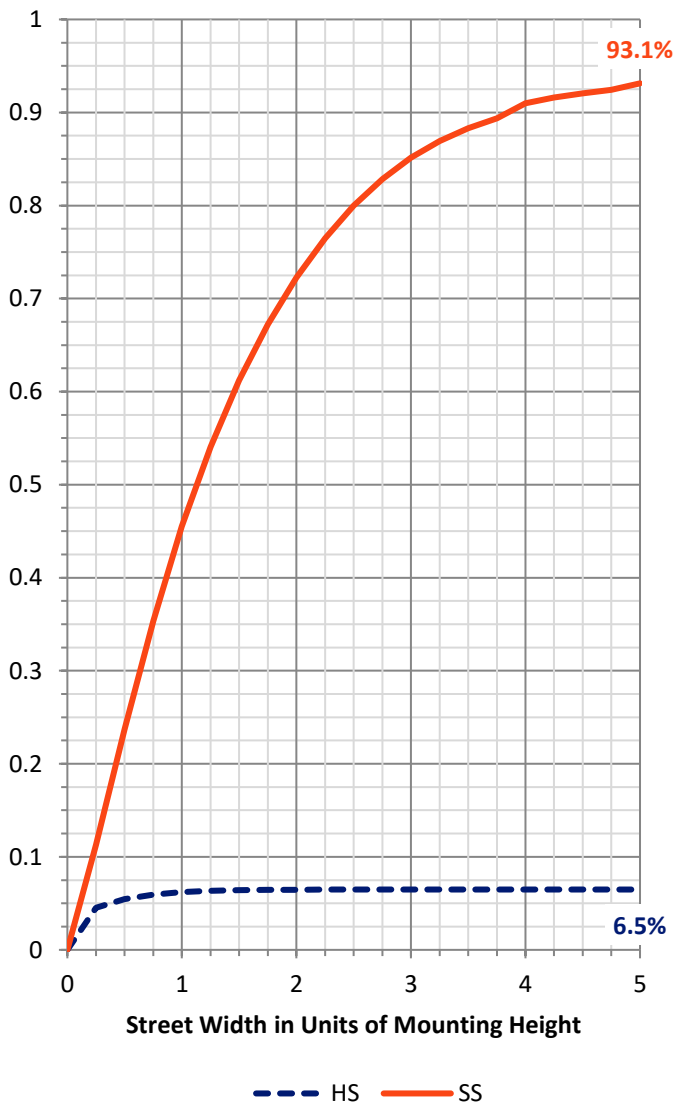
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	259.7	0.0	259.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	3723.3	0.0	3723.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	3983.0	0.0	3983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.3
10°-20°	137.8	3.5
20°-30°	230.8	5.8
30°-40°	357.9	9.0
40°-50°	567.2	14.2
50°-60°	831.4	20.9
60°-70°	1065.6	26.8
70°-80°	669.6	16.8
80°-90°	69.8	1.8
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°	3983.0	100.0
0°-180°	3983.0	100.0

Coefficient of Utilization



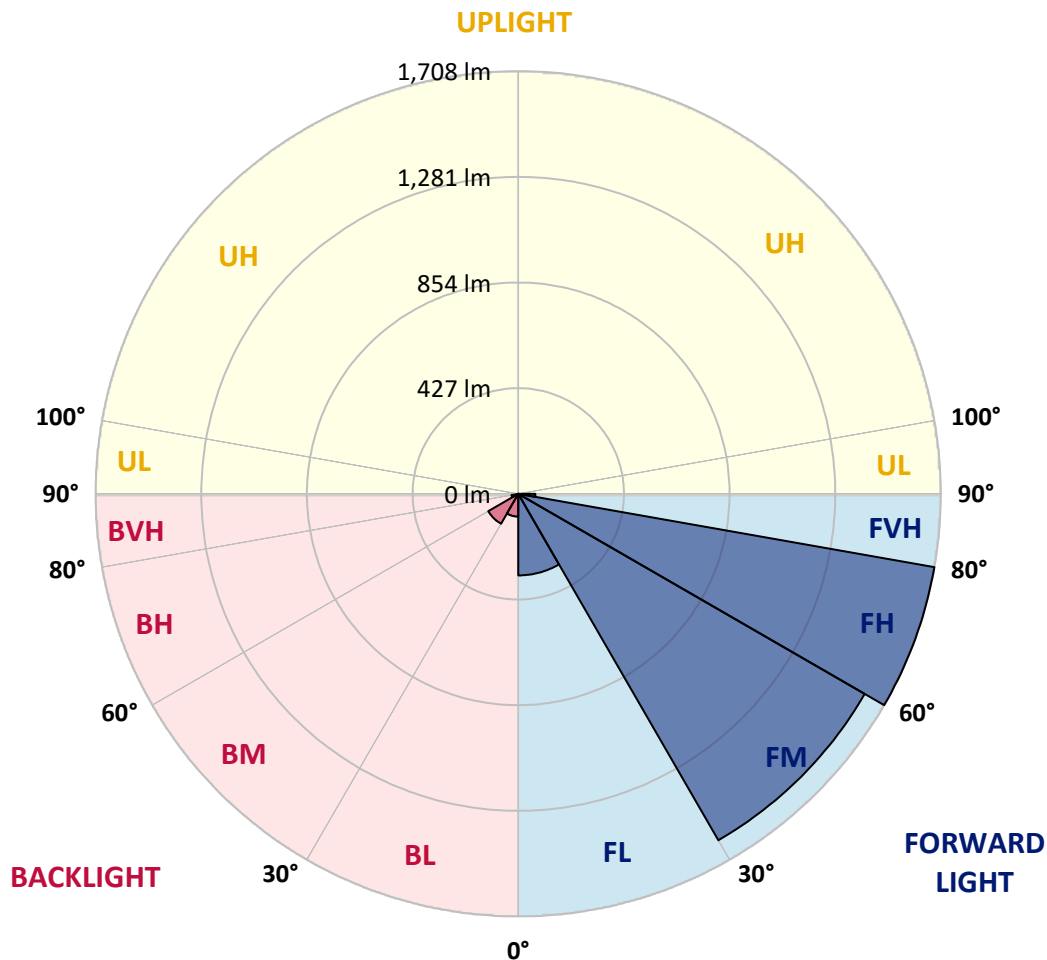
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.6	8.3			
FM (30°-60°)	1616.7	40.6			
FH (60°-80°)	1707.8	42.9			G1/1800
FVH (80°-90°)	69.2	1.7			G1/100
BL (0°-30°)	92.0	2.3	B0/110		
BM (30°-60°)	139.8	3.5	B0/220		
BH (60°-80°)	27.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	718.1	715.7	712.5	708.7	698.0	696.2	689.7	676.1	659.8	646.4	627.9
5°	752.1	753.5	751.0	744.4	736.5	732.0	724.0	702.8	681.7	654.6	624.4
7.5°	759.8	762.5	759.6	753.2	745.6	740.8	734.4	716.2	691.6	660.9	619.3
10°	759.1	762.3	760.4	754.5	748.3	743.8	736.8	722.4	702.6	670.2	620.9
12.5°	757.7	762.0	761.7	758.8	753.7	750.3	746.0	733.1	714.6	683.8	629.7
15°	754.0	759.3	764.1	766.6	766.8	766.8	761.4	747.8	730.2	701.8	641.3
17.5°	755.6	761.7	773.8	780.7	785.6	785.0	779.4	764.6	745.1	720.2	653.4
20°	765.5	773.8	790.6	804.6	809.4	807.8	800.3	783.1	760.9	736.0	665.1
22.5°	789.9	797.4	818.5	834.8	838.3	834.0	823.3	800.0	779.9	753.2	679.3
25°	826.2	835.0	854.6	866.9	866.9	864.5	849.5	822.2	801.3	777.0	697.8
27.5°	870.4	877.9	897.2	908.1	901.7	894.7	879.8	846.8	826.8	806.9	720.0
30°	915.1	919.9	940.2	945.0	938.4	929.6	913.5	880.5	862.9	847.6	752.1
32.5°	957.4	967.8	984.6	983.6	974.6	970.3	955.5	920.5	910.6	909.0	797.1
35°	999.7	1007.7	1022.7	1026.4	1018.4	1017.6	1006.9	980.9	981.2	991.6	867.2
37.5°	1036.0	1043.3	1060.9	1069.2	1070.8	1074.9	1070.6	1053.4	1077.8	1106.4	960.1
40°	1066.6	1076.7	1099.3	1113.7	1130.3	1145.0	1145.8	1149.6	1198.5	1247.8	1081.3
42.5°	1090.4	1104.6	1137.2	1164.0	1202.0	1220.7	1235.8	1256.4	1338.8	1412.4	1224.2
45°	1121.5	1137.8	1178.5	1220.5	1279.9	1310.7	1331.6	1386.7	1503.6	1604.0	1370.9
47.5°	1172.9	1181.4	1222.9	1284.2	1362.3	1406.2	1446.9	1530.5	1680.6	1770.5	1492.9
50°	1239.0	1244.6	1275.9	1361.0	1462.2	1519.9	1594.1	1692.3	1864.2	1908.6	1562.0
52.5°	1312.0	1313.9	1337.4	1445.6	1574.0	1646.8	1729.9	1851.0	2013.8	2007.1	1607.7
55°	1396.9	1394.2	1414.2	1537.3	1706.6	1789.7	1886.4	2013.5	2143.6	2076.9	1634.0
57.5°	1494.0	1486.8	1506.3	1659.1	1876.2	1975.8	2074.0	2153.8	2244.2	2135.6	1646.6
60°	1595.7	1581.2	1604.5	1796.0	2076.2	2170.6	2252.3	2273.6	2350.3	2182.1	1624.9
62.5°	1676.8	1677.1	1720.4	1941.5	2281.7	2364.4	2407.8	2427.0	2441.5	2172.0	1510.9
65°	1803.4	1807.7	1877.0	2143.6	2519.6	2591.4	2621.1	2558.5	2445.5	2045.6	1339.5
67.5°	1934.0	1947.7	2074.6	2422.0	2794.6	2852.3	2814.1	2583.9	2336.3	1757.4	1015.8
70°	1976.6	1999.1	2208.1	2613.6	2959.4	2989.3	2859.8	2465.3	1953.1	1175.0	511.2
72.5°	1811.2	1847.6	2131.3	2543.8	2854.2	2828.3	2558.7	2067.6	1241.7	446.2	156.0
75°	1277.2	1293.3	1771.3	2110.2	2295.6	2222.0	1946.3	1332.9	510.7	125.2	53.6
77.5°	659.5	651.7	1053.4	1400.1	1637.2	1560.9	1274.5	690.0	193.5	52.2	33.2
80°	341.0	346.6	455.8	733.6	999.4	919.6	679.5	319.8	103.0	28.9	25.4
82.5°	191.1	179.3	262.1	320.3	467.3	366.4	260.7	226.4	45.0	17.4	24.1
85°	34.8	36.4	143.7	173.2	162.2	103.0	84.0	151.2	13.1	9.7	16.8
87.5°	0.5	0.5	27.8	49.8	31.6	14.5	26.5	21.7	2.7	3.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	618.6	608.4	589.4	570.6	546.8	527.3	514.2	500.5	486.6	487.7	490.9
5°	607.8	590.1	552.7	513.1	475.1	440.9	407.1	376.9	364.6	353.3	353.8
7.5°	597.1	572.2	517.4	455.2	397.7	339.3	297.1	262.3	243.8	229.9	225.9
10°	592.3	559.3	485.0	399.6	318.0	254.2	199.9	171.6	149.6	142.6	144.6
12.5°	594.4	553.0	455.8	349.3	252.1	177.2	139.2	124.7	119.9	119.1	118.6
15°	598.5	548.4	427.1	293.6	185.2	131.7	117.0	114.3	113.8	113.2	113.5
17.5°	603.8	544.4	396.6	241.5	142.1	115.0	110.8	109.5	109.2	109.2	109.2
20°	609.1	539.8	362.6	194.9	118.6	108.7	106.0	105.2	105.0	105.0	104.6
22.5°	615.4	535.8	328.2	153.1	109.2	104.1	101.7	101.2	100.9	100.7	100.7
25°	624.2	530.8	291.5	125.2	103.3	99.8	97.4	96.9	96.6	95.5	95.8
27.5°	636.0	527.0	253.7	108.2	98.0	94.4	92.8	92.1	91.5	90.7	91.0
30°	652.0	523.8	213.6	98.7	91.8	88.9	87.2	86.7	86.2	85.4	85.4
32.5°	679.9	525.1	171.3	91.2	86.2	82.7	81.1	80.6	80.1	79.2	79.2
35°	721.6	532.9	137.0	84.9	79.5	76.0	74.4	74.4	73.6	72.5	72.2
37.5°	789.9	552.7	110.0	78.7	73.1	69.9	68.0	67.4	66.6	65.0	64.8
40°	870.4	583.5	92.6	72.5	67.2	64.0	62.4	60.7	58.6	57.0	56.8
42.5°	971.6	615.0	80.3	66.4	61.6	58.6	56.8	54.1	50.9	48.7	48.4
45°	1077.0	644.0	72.0	60.7	56.2	53.8	51.6	47.3	43.4	40.7	40.5
47.5°	1155.7	649.3	65.3	55.4	51.6	49.3	46.3	41.0	35.6	33.2	32.4
50°	1192.9	623.3	58.4	50.0	47.1	44.4	40.7	34.6	28.7	25.7	25.1
52.5°	1206.0	578.4	52.7	45.2	42.6	39.4	34.8	27.8	22.5	19.5	19.3
55°	1200.7	521.7	47.6	40.7	37.2	33.5	28.9	22.2	16.6	14.2	13.6
57.5°	1172.6	449.3	42.6	36.2	31.9	28.1	23.0	16.6	11.3	9.1	8.8
60°	1096.8	350.9	37.5	31.0	27.0	23.0	18.2	11.8	7.0	5.0	5.0
62.5°	968.9	260.5	32.6	26.0	22.8	18.5	12.9	7.5	3.8	2.7	2.4
65°	809.6	192.2	27.3	22.0	19.0	14.5	9.1	4.5	1.9	0.8	0.5
67.5°	565.0	118.6	22.8	17.9	15.6	10.4	5.6	1.9	0.8	0.0	0.0
70°	256.7	56.5	17.4	13.6	11.8	7.5	2.9	1.1	0.5	0.0	0.0
72.5°	79.7	29.7	12.3	9.9	8.0	4.8	1.6	0.8	0.5	0.0	0.0
75°	36.9	19.0	7.7	5.4	4.5	2.4	1.1	0.5	0.3	0.0	0.0
77.5°	27.6	14.7	4.5	2.9	2.4	1.6	0.8	0.5	0.3	0.0	0.0
80°	24.1	7.5	2.7	1.9	1.3	1.1	0.5	0.3	0.0	0.0	0.0
82.5°	21.7	3.8	1.6	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0
85°	11.8	2.1	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	0.8	0.5	0.5	0.3	0.3	0.3	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)