

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: P651182

Luminaire Tested: **GALN-SA1D-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651182
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-SA1D-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA 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: 5415.2 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

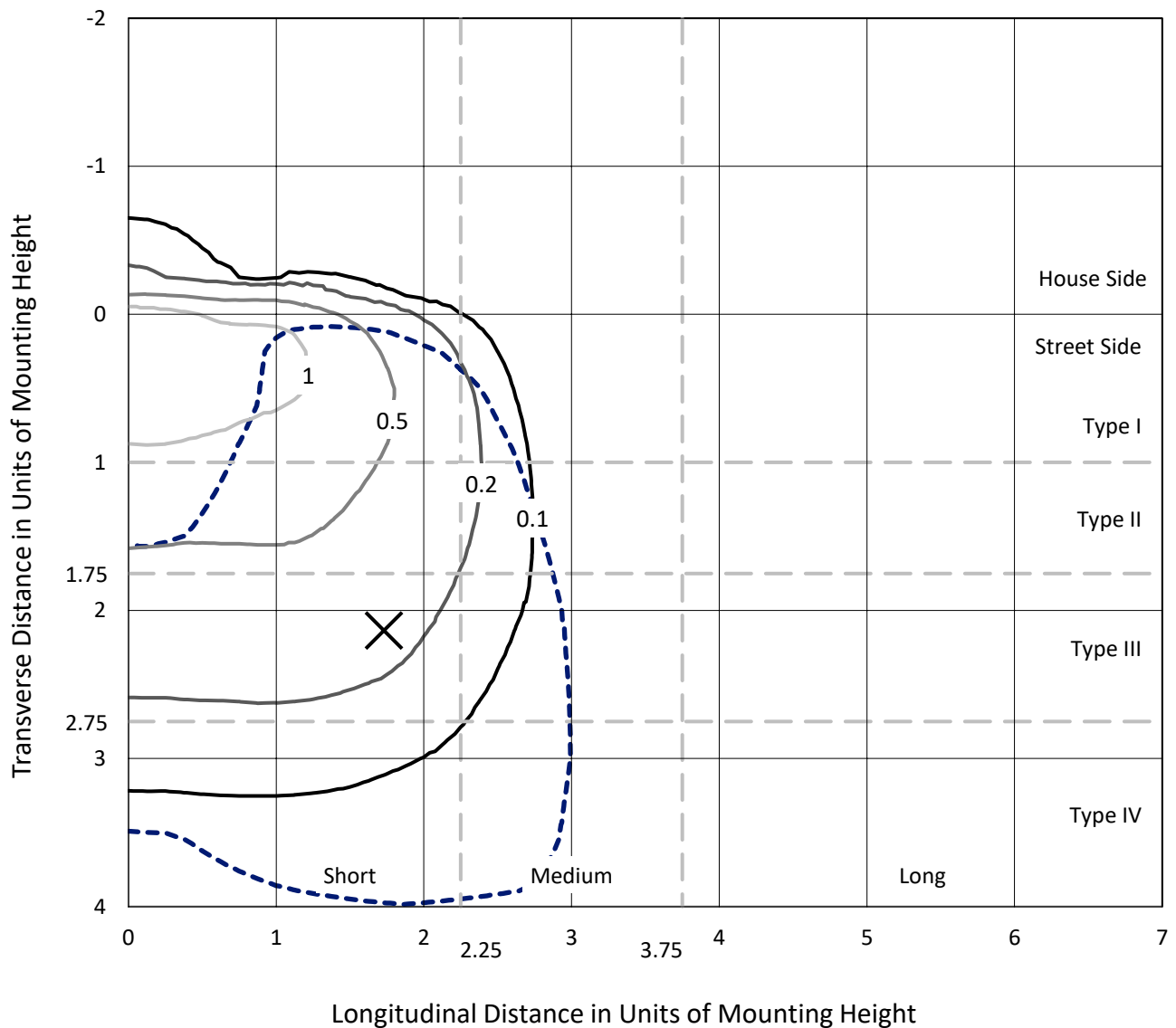
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

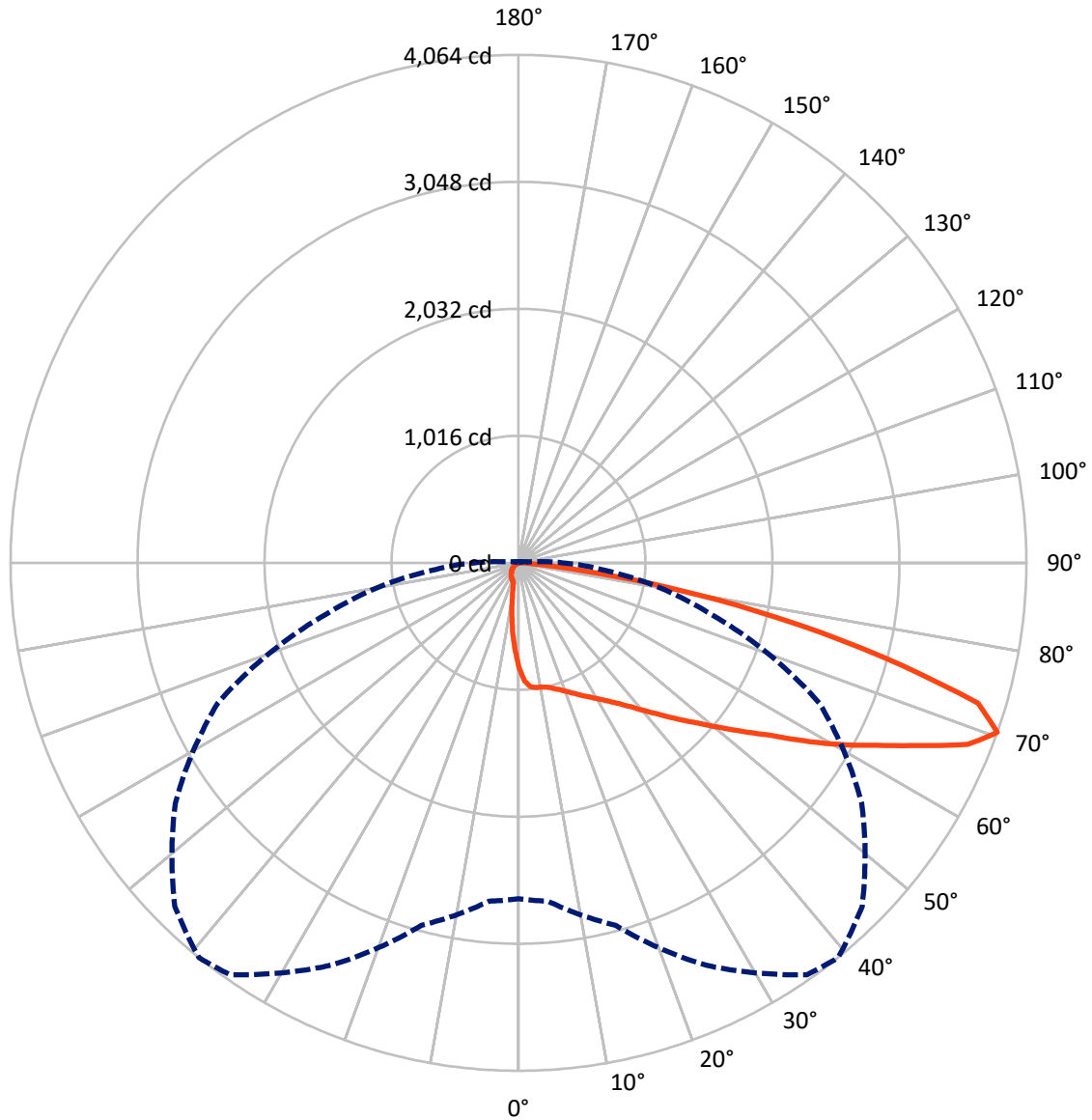
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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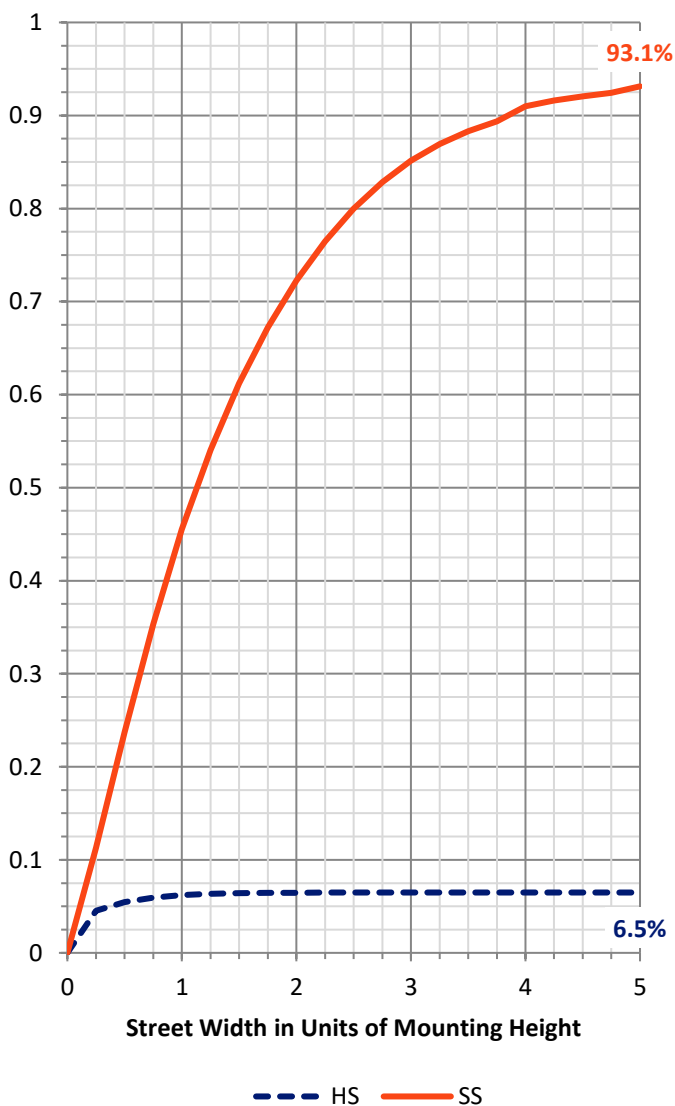
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.1	0.0	353.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5062.1	0.0	5062.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	5415.2	0.0	5415.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.3
10°-20°	187.3	3.5
20°-30°	313.8	5.8
30°-40°	486.6	9.0
40°-50°	771.1	14.2
50°-60°	1130.3	20.9
60°-70°	1448.8	26.8
70°-80°	910.4	16.8
80°-90°	94.8	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°	5415.2	100.0
0°-180°	5415.2	100.0

Coefficient of Utilization



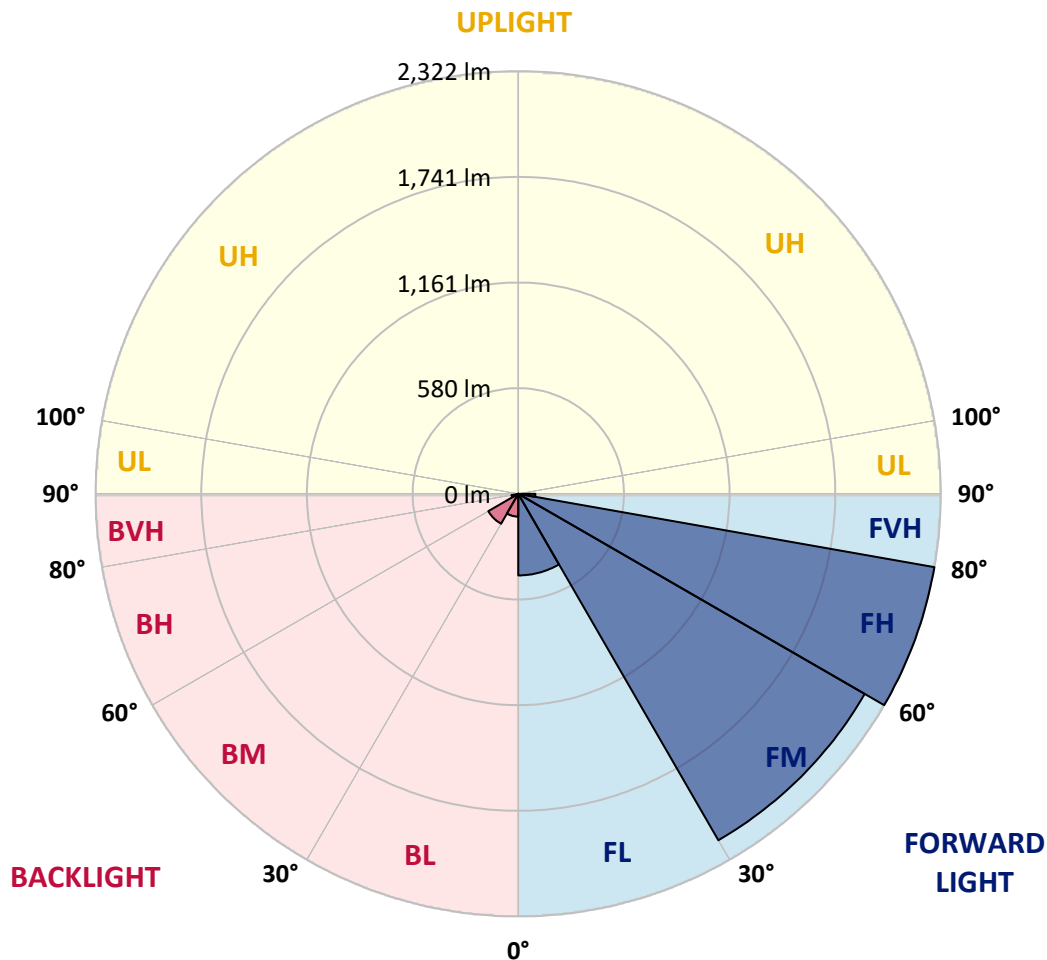
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.1	8.3			
FM (30°-60°)	2198.0	40.6			
FH (60°-80°)	2321.9	42.9			G2/5000
FVH (80°-90°)	94.1	1.7			G1/100
BL (0°-30°)	125.0	2.3	B1/500		
BM (30°-60°)	190.0	3.5	B0/220		
BH (60°-80°)	37.3	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0
2.5°	976.3	973.0	968.7	963.6	949.1	946.5	937.7	919.2	897.0	878.8	853.7
5°	1022.6	1024.3	1021.1	1012.0	1001.5	995.2	984.3	955.5	926.9	890.1	849.0
7.5°	1033.1	1036.7	1032.7	1024.0	1013.8	1007.3	998.5	973.8	940.3	898.4	842.0
10°	1032.0	1036.4	1033.8	1025.9	1017.4	1011.2	1001.8	982.1	955.2	911.2	844.2
12.5°	1030.1	1036.0	1035.6	1031.7	1024.8	1020.0	1014.2	996.7	971.6	929.7	856.2
15°	1025.1	1032.3	1038.9	1042.2	1042.6	1042.6	1035.3	1016.7	992.7	954.1	871.9
17.5°	1027.3	1035.6	1052.0	1061.5	1068.0	1067.3	1059.7	1039.6	1013.1	979.3	888.3
20°	1040.7	1052.0	1075.0	1093.9	1100.4	1098.3	1088.0	1064.7	1034.5	1000.7	904.2
22.5°	1073.9	1084.0	1112.8	1135.0	1139.7	1133.9	1119.4	1087.7	1060.4	1024.0	923.6
25°	1123.3	1135.4	1161.9	1178.7	1178.7	1175.4	1155.0	1117.9	1089.5	1056.4	948.6
27.5°	1183.4	1193.5	1219.8	1234.7	1225.9	1216.5	1196.2	1151.3	1124.1	1097.2	978.8
30°	1244.2	1250.7	1278.3	1284.9	1275.8	1263.8	1242.0	1197.2	1173.2	1152.4	1022.6
32.5°	1301.6	1315.8	1338.8	1337.3	1324.9	1319.1	1299.1	1251.4	1238.0	1235.8	1083.6
35°	1359.1	1370.1	1390.4	1395.6	1384.6	1383.5	1369.0	1333.7	1334.0	1348.2	1179.0
37.5°	1408.6	1418.4	1442.5	1453.8	1455.9	1461.4	1455.6	1432.3	1465.4	1504.3	1305.3
40°	1450.1	1463.9	1494.5	1514.1	1536.7	1556.7	1557.8	1562.9	1629.5	1696.5	1470.2
42.5°	1482.5	1501.8	1546.2	1582.6	1634.2	1659.7	1680.1	1708.1	1820.2	1920.3	1664.4
45°	1524.7	1546.9	1602.2	1659.4	1740.1	1782.0	1810.3	1885.4	2044.3	2180.8	1863.8
47.5°	1594.5	1606.2	1662.7	1745.9	1852.2	1911.9	1967.2	2080.7	2284.9	2407.1	2029.8
50°	1684.4	1692.1	1734.6	1850.4	1988.0	2066.5	2167.3	2300.9	2534.5	2594.9	2123.7
52.5°	1783.8	1786.4	1818.3	1965.4	2140.0	2239.0	2351.9	2516.7	2738.0	2728.8	2185.9
55°	1899.1	1895.5	1922.8	2090.2	2320.2	2433.3	2564.7	2737.5	2914.4	2823.8	2221.6
57.5°	2031.3	2021.4	2048.0	2255.7	2550.9	2686.2	2819.8	2928.3	3051.2	2903.5	2238.7
60°	2169.5	2149.8	2181.6	2441.7	2822.7	2951.2	3062.2	3091.3	3195.3	2966.8	2209.2
62.5°	2279.8	2280.1	2339.1	2639.6	3102.2	3214.6	3273.6	3299.7	3319.4	2953.0	2054.1
65°	2451.9	2457.7	2552.0	2914.4	3425.6	3523.2	3563.6	3478.5	3324.9	2781.2	1821.3
67.5°	2629.5	2648.1	2820.5	3292.9	3799.4	3878.0	3826.0	3513.0	3176.4	2389.3	1381.0
70°	2687.3	2717.9	3002.1	3553.4	4023.5	4064.3	3888.2	3351.8	2655.3	1597.5	695.0
72.5°	2462.4	2512.0	2897.7	3458.4	3880.5	3845.2	3478.8	2811.0	1688.1	606.6	212.2
75°	1736.5	1758.4	2408.2	2868.9	3121.1	3021.0	2646.2	1812.2	694.3	170.3	72.7
77.5°	896.6	886.1	1432.3	1903.5	2226.0	2122.2	1732.9	938.1	263.1	71.0	45.2
80°	463.6	471.2	619.7	997.4	1358.8	1250.3	923.9	434.9	140.1	39.3	34.6
82.5°	259.8	243.8	356.2	435.6	635.4	498.2	354.4	307.9	61.1	23.6	32.7
85°	47.3	49.5	195.4	235.5	220.5	140.1	114.3	205.6	17.8	13.1	23.0
87.5°	0.8	0.8	37.8	67.7	43.0	19.7	36.0	29.4	3.6	5.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0
2.5°	840.9	827.1	801.3	775.8	743.4	716.9	699.0	680.5	661.5	663.0	667.4
5°	826.4	802.4	751.4	697.6	645.9	599.3	553.5	512.3	495.6	480.4	481.1
7.5°	811.8	778.0	703.4	619.0	540.8	461.5	403.9	356.6	331.5	312.6	307.1
10°	805.3	760.5	659.3	543.3	432.3	345.7	271.8	233.3	203.4	193.9	196.5
12.5°	808.2	751.8	619.7	474.9	342.8	240.9	189.2	169.5	163.0	161.9	161.2
15°	813.7	745.6	580.8	399.2	251.8	179.0	159.0	155.4	154.7	153.9	154.3
17.5°	820.9	740.2	539.2	328.2	193.3	156.5	150.6	148.9	148.4	148.4	148.4
20°	828.2	733.9	493.1	264.9	161.2	147.8	144.1	143.0	142.6	142.6	142.3
22.5°	836.6	728.5	446.2	208.1	148.4	141.5	138.3	137.6	137.2	136.8	136.8
25°	848.6	721.6	396.3	170.3	140.4	135.7	132.5	131.7	131.4	129.9	130.3
27.5°	864.6	716.5	345.0	147.0	133.2	128.4	126.2	125.1	124.5	123.4	123.7
30°	886.4	712.2	290.4	134.3	124.8	120.9	118.7	117.9	117.2	116.1	116.1
32.5°	924.3	713.9	232.9	124.0	117.2	112.4	110.3	109.5	108.8	107.7	107.7
35°	981.0	724.5	186.3	115.4	108.1	103.4	101.2	101.2	100.1	98.6	98.2
37.5°	1073.9	751.4	149.5	107.0	99.3	94.9	92.4	91.7	90.6	88.4	88.1
40°	1183.4	793.3	125.9	98.6	91.3	87.0	84.8	82.6	79.7	77.5	77.1
42.5°	1321.0	836.2	109.2	90.2	83.7	79.7	77.1	73.5	69.1	66.2	65.9
45°	1464.3	875.6	97.9	82.6	76.4	73.2	70.2	64.4	59.0	55.3	54.9
47.5°	1571.3	882.8	88.8	75.4	70.2	66.9	63.0	55.7	48.4	45.2	44.1
50°	1621.9	847.5	79.3	68.0	64.1	60.4	55.3	46.9	38.9	34.9	34.2
52.5°	1639.7	786.3	71.7	61.5	57.9	53.5	47.3	37.8	30.5	26.6	26.2
55°	1632.4	709.2	64.8	55.3	50.5	45.5	39.3	30.2	22.5	19.3	18.6
57.5°	1594.2	611.0	57.9	49.1	43.3	38.2	31.3	22.5	15.3	12.4	12.0
60°	1491.3	477.1	51.0	42.2	36.8	31.3	24.7	16.0	9.4	6.9	6.9
62.5°	1317.3	354.1	44.4	35.3	30.9	25.1	17.5	10.2	5.1	3.6	3.3
65°	1100.8	261.3	37.1	29.9	25.8	19.7	12.4	6.2	2.5	1.1	0.8
67.5°	768.2	161.2	30.9	24.4	21.1	14.2	7.7	2.5	1.1	0.0	0.0
70°	348.9	76.8	23.6	18.6	16.0	10.2	4.0	1.4	0.8	0.0	0.0
72.5°	108.4	40.4	16.7	13.5	10.9	6.6	2.2	1.1	0.8	0.0	0.0
75°	50.2	25.8	10.5	7.3	6.2	3.3	1.4	0.8	0.3	0.0	0.0
77.5°	37.5	20.0	6.2	4.0	3.3	2.2	1.1	0.8	0.3	0.0	0.0
80°	32.7	10.2	3.6	2.5	1.9	1.4	0.8	0.3	0.0	0.0	0.0
82.5°	29.4	5.1	2.2	1.4	1.1	0.8	0.3	0.3	0.0	0.0	0.0
85°	16.0	2.9	1.4	1.1	0.8	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.9	1.4	1.1	0.8	0.8	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)