

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: P647222

Luminaire Tested: **GALN-SA1D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647222
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-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 5041.7 lumens
Efficiency: N/A
Efficacy: 77.6 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

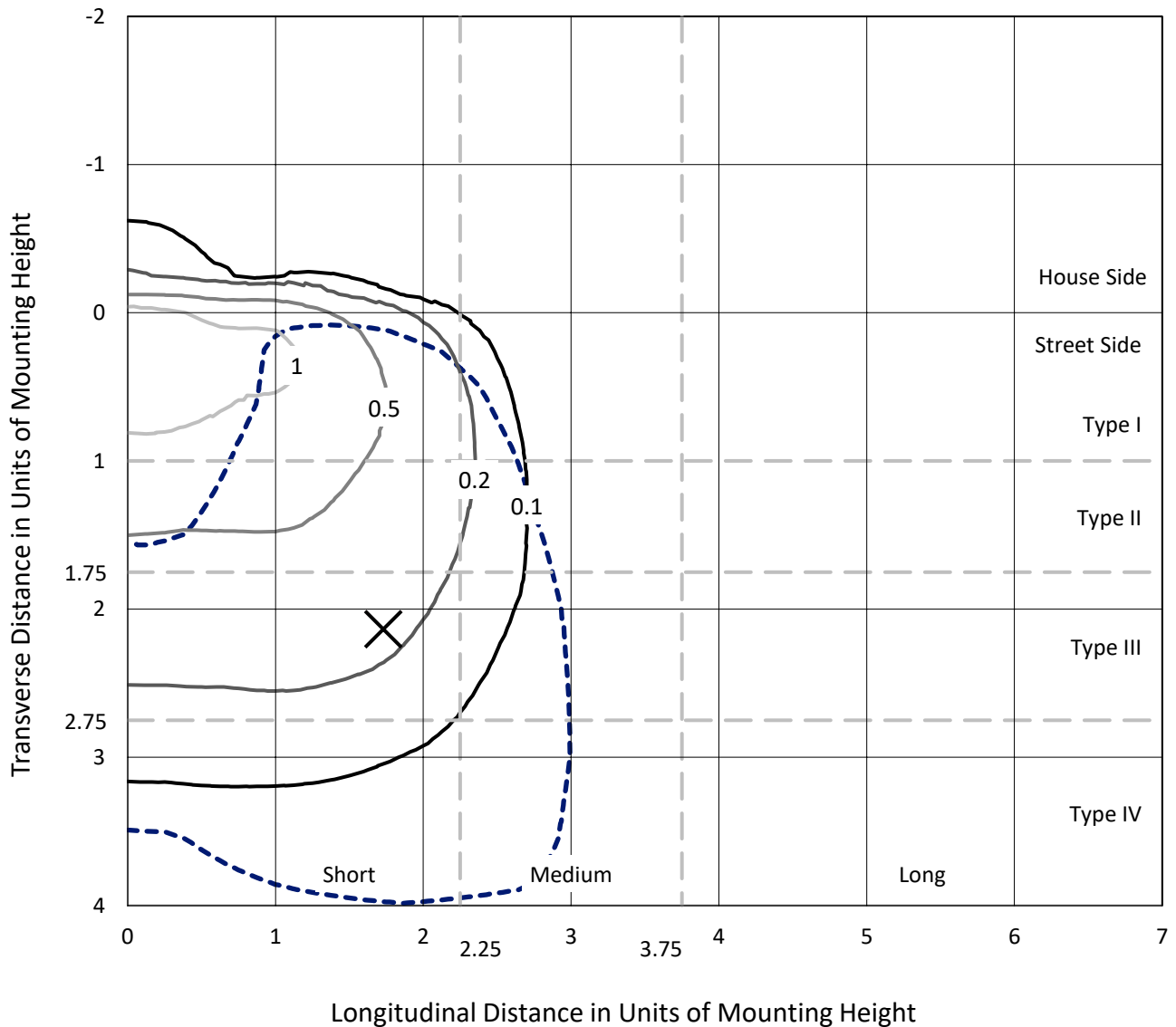
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

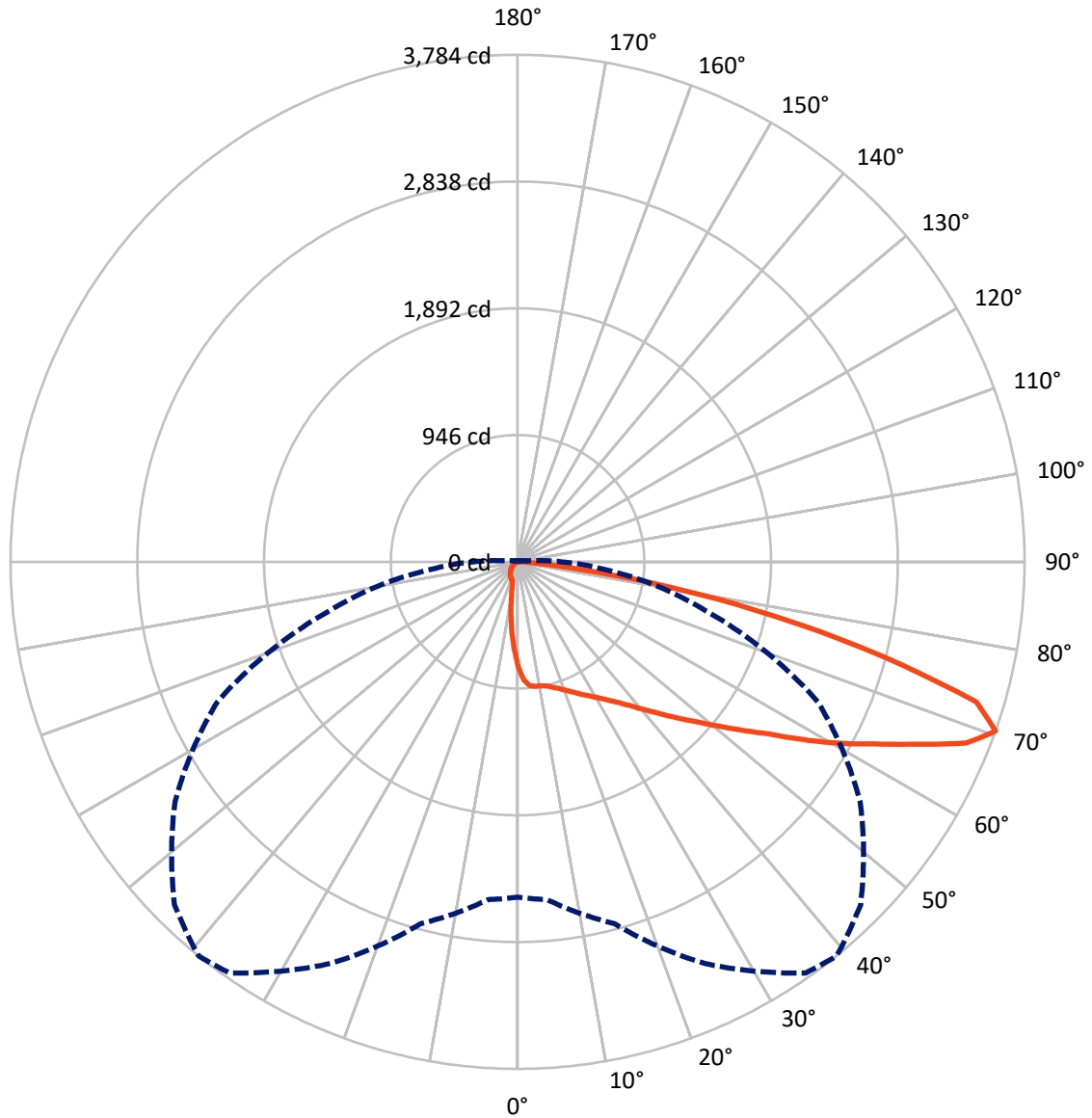
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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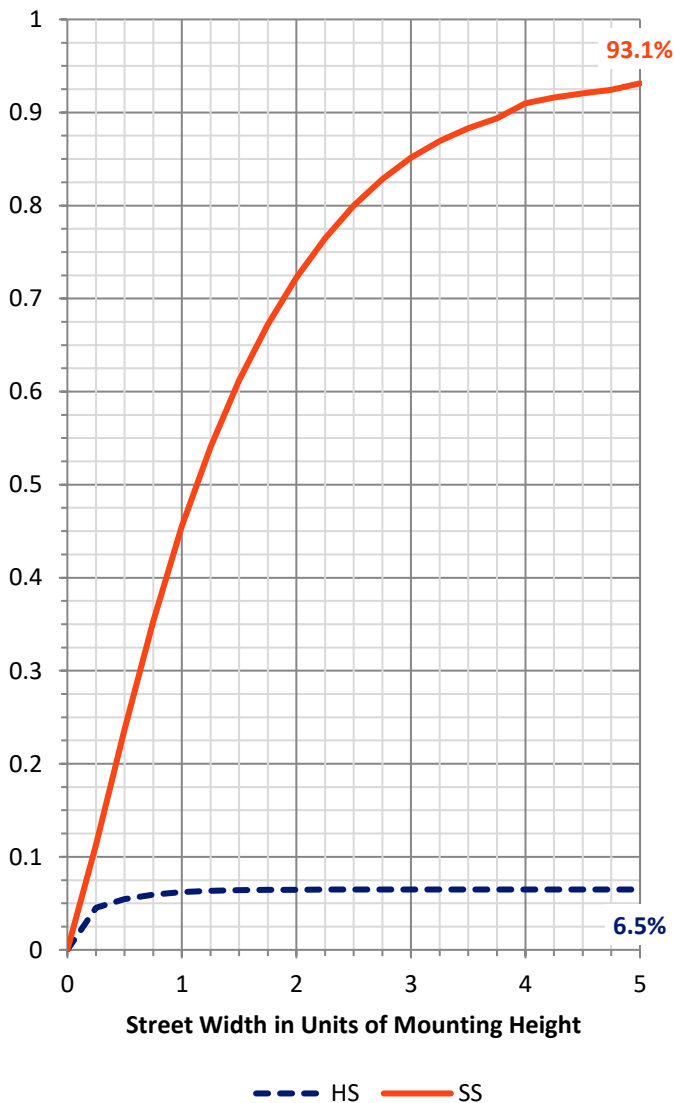
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.7	0.0	328.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4713.0	0.0	4713.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	5041.7	0.0	5041.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.3
10°-20°	174.4	3.5
20°-30°	292.1	5.8
30°-40°	453.0	9.0
40°-50°	717.9	14.2
50°-60°	1052.4	20.9
60°-70°	1348.9	26.8
70°-80°	847.6	16.8
80°-90°	88.3	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°	5041.7	100.0
0°-180°	5041.7	100.0

Coefficient of Utilization

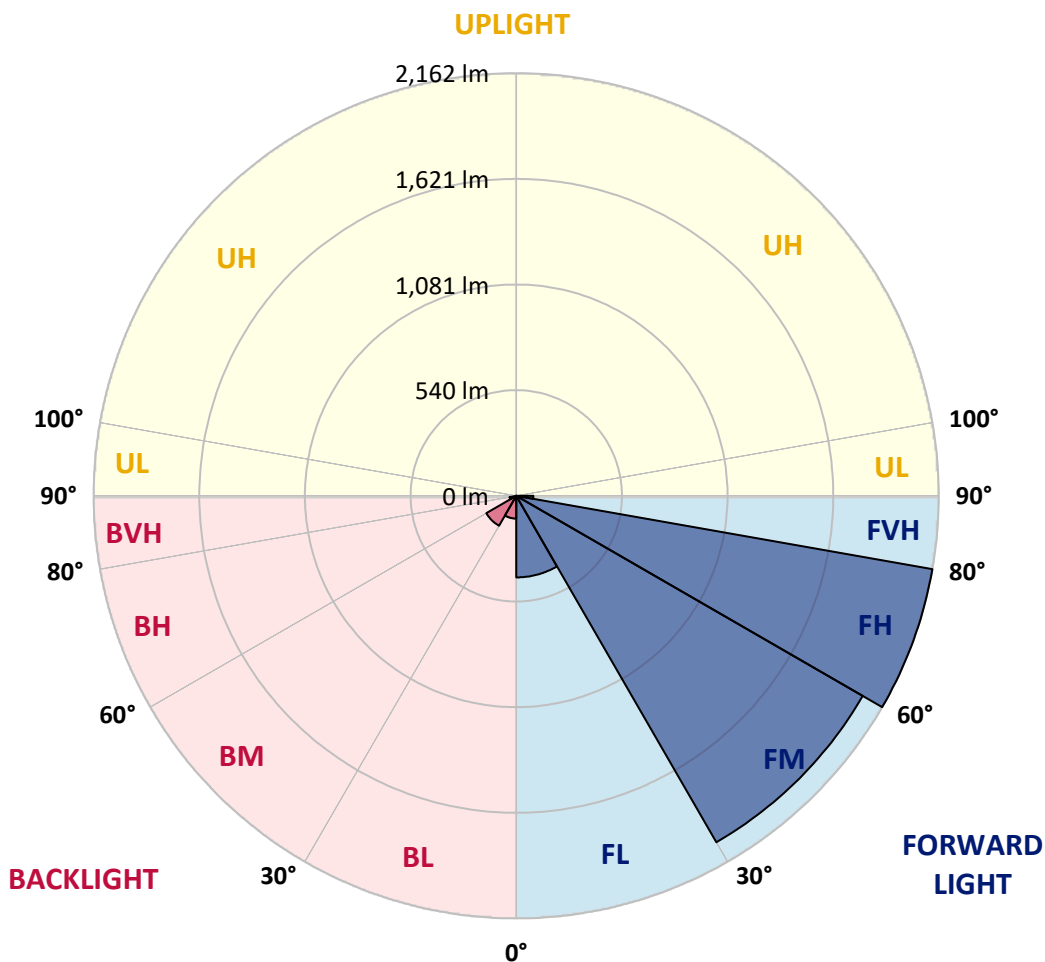


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.2	8.3			
FM (30°-60°)	2046.4	40.6			
FH (60°-80°)	2161.7	42.9			G2/5000
FVH (80°-90°)	87.7	1.7			G1/100
BL (0°-30°)	116.4	2.3	B1/500		
BM (30°-60°)	176.9	3.5	B0/220		
BH (60°-80°)	34.8	0.7	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: 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°	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7
2.5°	909.0	905.9	901.9	897.2	883.6	881.2	873.0	855.8	835.1	818.2	794.8
5°	952.0	953.7	950.6	942.2	932.4	926.6	916.4	889.6	862.9	828.7	790.4
7.5°	961.8	965.2	961.5	953.4	943.9	937.8	929.7	906.6	875.5	836.5	783.9
10°	960.8	964.9	962.5	955.1	947.3	941.5	932.7	914.4	889.3	848.4	786.0
12.5°	959.1	964.6	964.2	960.5	954.1	949.6	944.2	927.9	904.6	865.6	797.2
15°	954.4	961.1	967.2	970.3	970.7	970.7	963.9	946.6	924.3	888.3	811.7
17.5°	956.4	964.2	979.5	988.3	994.3	993.7	986.6	967.9	943.2	911.7	827.0
20°	969.0	979.5	1000.8	1018.4	1024.6	1022.5	1013.0	991.3	963.2	931.7	841.9
22.5°	999.8	1009.3	1036.1	1056.7	1061.1	1055.7	1042.2	1012.7	987.3	953.4	859.9
25°	1045.9	1057.0	1081.8	1097.4	1097.4	1094.3	1075.4	1040.8	1014.4	983.5	883.2
27.5°	1101.8	1111.2	1135.7	1149.5	1141.4	1132.6	1113.7	1071.9	1046.6	1021.5	911.3
30°	1158.4	1164.5	1190.2	1196.3	1187.8	1176.6	1156.3	1114.6	1092.3	1072.9	952.0
32.5°	1211.8	1225.1	1246.5	1245.0	1233.5	1228.1	1209.5	1165.1	1152.6	1150.5	1008.9
35°	1265.4	1275.6	1294.5	1299.3	1289.1	1288.1	1274.6	1241.7	1242.0	1255.2	1097.7
37.5°	1311.4	1320.6	1343.0	1353.5	1355.5	1360.6	1355.2	1333.5	1364.3	1400.6	1215.3
40°	1350.1	1363.0	1391.5	1409.7	1430.7	1449.3	1450.4	1455.1	1517.1	1579.5	1368.8
42.5°	1380.3	1398.2	1439.5	1473.4	1521.5	1545.3	1564.2	1590.3	1694.6	1787.8	1549.6
45°	1419.6	1440.3	1491.7	1544.9	1620.1	1659.1	1685.5	1755.3	1903.3	2030.4	1735.3
47.5°	1484.6	1495.5	1548.0	1625.5	1724.5	1780.1	1831.5	1937.2	2127.3	2241.1	1889.8
50°	1568.3	1575.4	1615.0	1722.8	1850.9	1924.0	2017.9	2142.2	2359.7	2415.9	1977.2
52.5°	1660.7	1663.2	1692.9	1829.9	1992.4	2084.6	2189.7	2343.1	2549.1	2540.6	2035.2
55°	1768.2	1764.8	1790.2	1946.1	2160.1	2265.5	2387.8	2548.7	2713.4	2629.1	2068.4
57.5°	1891.2	1882.0	1906.8	2100.2	2375.0	2501.0	2625.3	2726.3	2840.8	2703.2	2084.3
60°	2019.9	2001.6	2031.1	2273.3	2628.1	2747.6	2851.0	2878.1	2974.9	2762.2	2056.9
62.5°	2122.6	2122.9	2177.8	2457.6	2888.3	2992.9	3047.8	3072.2	3090.5	2749.3	1912.5
65°	2282.8	2288.2	2376.0	2713.4	3189.4	3280.2	3317.8	3238.6	3095.6	2589.4	1695.7
67.5°	2448.1	2465.4	2626.0	3065.8	3537.4	3610.6	3562.1	3270.7	2957.3	2224.5	1285.8
70°	2502.0	2530.5	2795.1	3308.3	3746.0	3784.0	3620.0	3120.6	2472.2	1487.3	647.1
72.5°	2292.6	2338.7	2697.8	3219.9	3612.9	3580.0	3238.9	2617.2	1571.6	564.8	197.6
75°	1616.7	1637.1	2242.1	2671.0	2905.9	2812.7	2463.7	1687.2	646.4	158.6	67.7
77.5°	834.8	825.0	1333.5	1772.2	2072.4	1975.8	1613.4	873.4	244.9	66.1	42.0
80°	431.6	438.7	577.0	928.6	1265.1	1164.1	860.2	404.9	130.4	36.6	32.2
82.5°	241.9	227.0	331.7	405.5	591.6	463.8	330.0	286.7	56.9	22.0	30.5
85°	44.0	46.0	182.0	219.2	205.3	130.4	106.4	191.4	16.6	12.2	21.4
87.5°	0.7	0.7	35.2	63.0	40.0	18.3	33.5	27.4	3.4	4.8	3.8
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°	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7	786.7
2.5°	782.9	770.1	746.0	722.3	692.2	667.4	650.8	633.5	615.9	617.3	621.4
5°	769.4	747.1	699.6	649.5	601.3	558.0	515.3	477.0	461.4	447.2	447.9
7.5°	755.8	724.4	654.9	576.3	503.5	429.6	376.1	332.0	308.7	291.0	286.0
10°	749.7	708.1	613.9	505.8	402.5	321.9	253.1	217.2	189.4	180.6	183.0
12.5°	752.5	699.9	577.0	442.2	319.2	224.3	176.2	157.9	151.7	150.7	150.1
15°	757.6	694.2	540.7	371.7	234.4	166.7	148.1	144.7	144.0	143.3	143.7
17.5°	764.3	689.1	502.1	305.6	179.9	145.7	140.2	138.6	138.2	138.2	138.2
20°	771.1	683.3	459.1	246.6	150.1	137.6	134.1	133.1	132.8	132.8	132.5
22.5°	778.9	678.2	415.4	193.8	138.2	131.8	128.7	128.1	127.7	127.4	127.4
25°	790.0	671.8	368.9	158.6	130.8	126.4	123.3	122.6	122.3	121.0	121.3
27.5°	805.0	667.1	321.2	136.9	124.0	119.6	117.5	116.5	115.9	114.9	115.2
30°	825.3	663.0	270.4	125.0	116.2	112.5	110.5	109.8	109.1	108.1	108.1
32.5°	860.5	664.7	216.8	115.5	109.1	104.7	102.7	101.9	101.3	100.3	100.3
35°	913.4	674.6	173.4	107.4	100.6	96.2	94.2	94.2	93.2	91.8	91.5
37.5°	999.8	699.6	139.2	99.6	92.5	88.4	86.1	85.3	84.3	82.3	82.0
40°	1101.8	738.6	117.2	91.8	85.0	81.0	78.9	76.9	74.2	72.2	71.8
42.5°	1229.9	778.5	101.6	84.0	77.9	74.2	71.8	68.4	64.4	61.6	61.3
45°	1363.3	815.2	91.1	76.9	71.2	68.1	65.4	60.0	54.9	51.5	51.1
47.5°	1463.0	821.9	82.7	70.2	65.4	62.3	58.6	51.8	45.0	42.0	41.0
50°	1510.0	789.0	73.8	63.3	59.7	56.2	51.5	43.7	36.3	32.5	31.9
52.5°	1526.6	732.1	66.7	57.2	53.9	49.8	44.0	35.2	28.4	24.7	24.4
55°	1519.8	660.3	60.3	51.5	47.1	42.4	36.6	28.1	21.0	17.9	17.3
57.5°	1484.3	568.8	53.9	45.7	40.3	35.5	29.1	21.0	14.3	11.5	11.2
60°	1388.4	444.2	47.4	39.3	34.2	29.1	23.0	14.9	8.8	6.4	6.4
62.5°	1226.4	329.6	41.3	32.9	28.8	23.4	16.3	9.5	4.8	3.4	3.1
65°	1024.9	243.3	34.5	27.8	24.0	18.3	11.5	5.8	2.3	1.0	0.7
67.5°	715.2	150.1	28.8	22.7	19.7	13.2	7.1	2.3	1.0	0.0	0.0
70°	324.9	71.5	22.0	17.3	14.9	9.5	3.8	1.3	0.7	0.0	0.0
72.5°	100.9	37.6	15.6	12.5	10.2	6.1	2.0	1.0	0.7	0.0	0.0
75°	46.7	24.0	9.8	6.8	5.8	3.1	1.3	0.7	0.3	0.0	0.0
77.5°	34.9	18.6	5.8	3.8	3.1	2.0	1.0	0.7	0.3	0.0	0.0
80°	30.5	9.5	3.4	2.3	1.7	1.3	0.7	0.3	0.0	0.0	0.0
82.5°	27.4	4.8	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
85°	14.9	2.7	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.7	1.3	1.0	0.7	0.7	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)