

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: P651198

Luminaire Tested: **GALN-SA1D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651198
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-SA1D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA 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: 5270.5 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

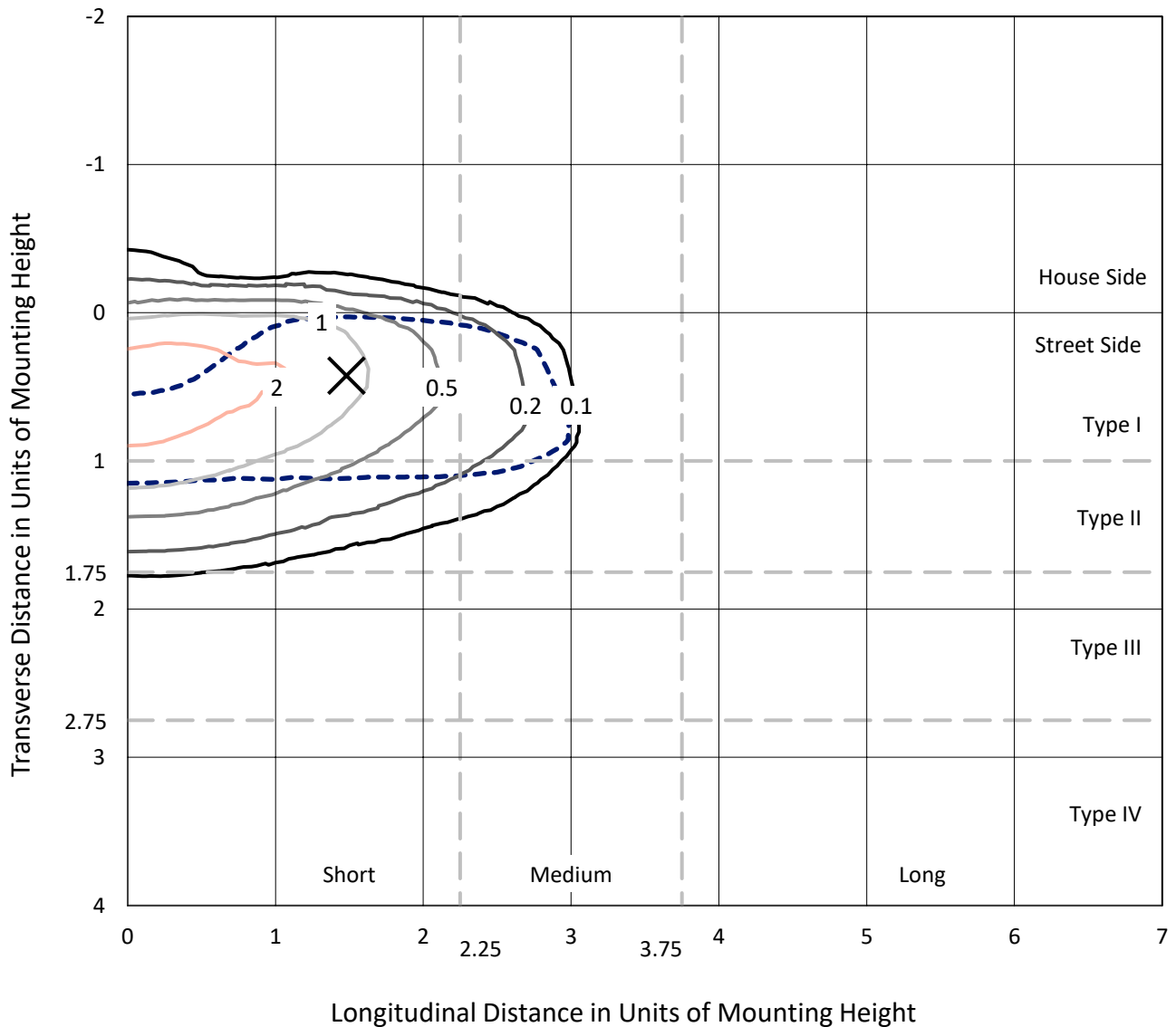
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

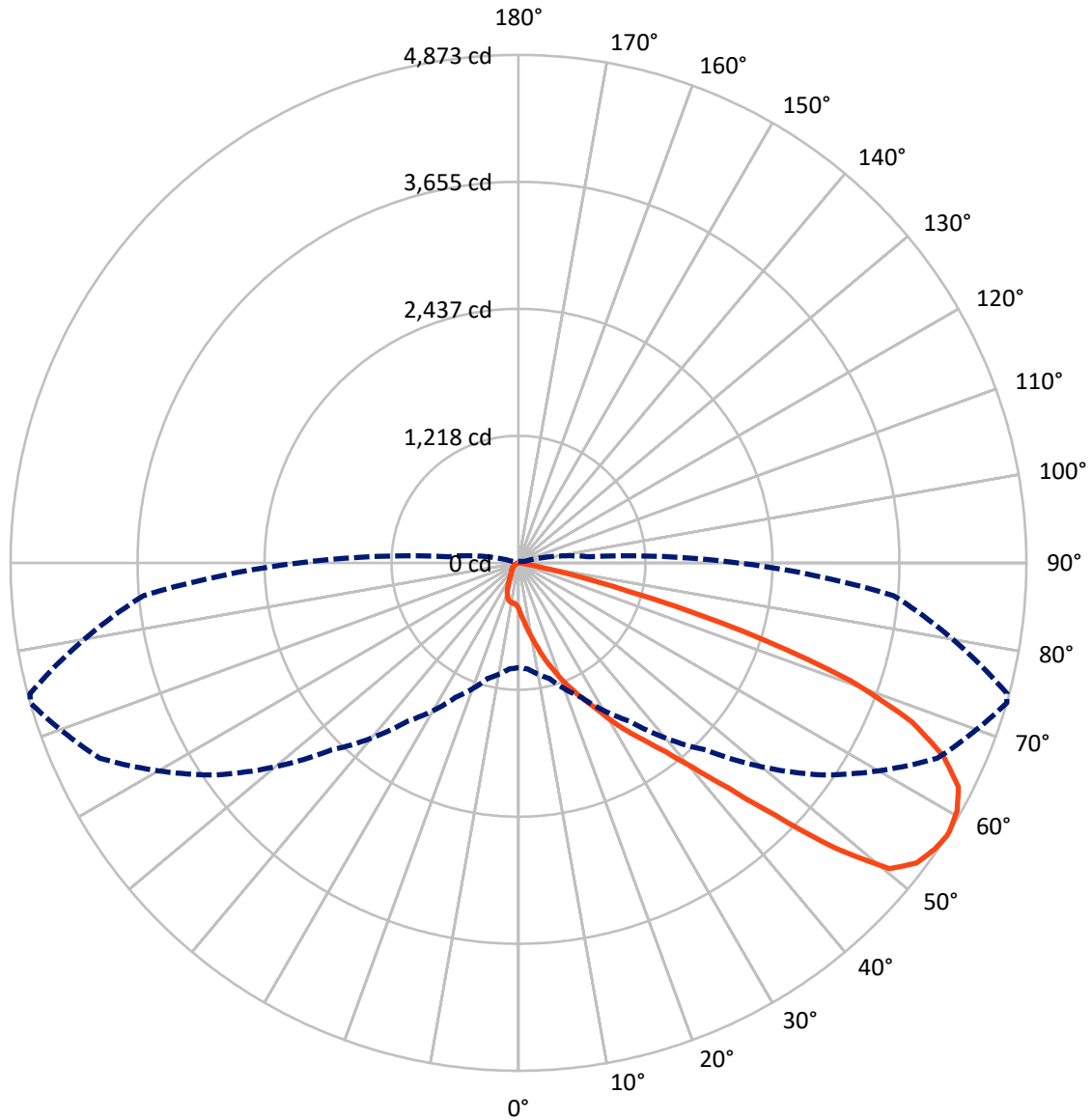
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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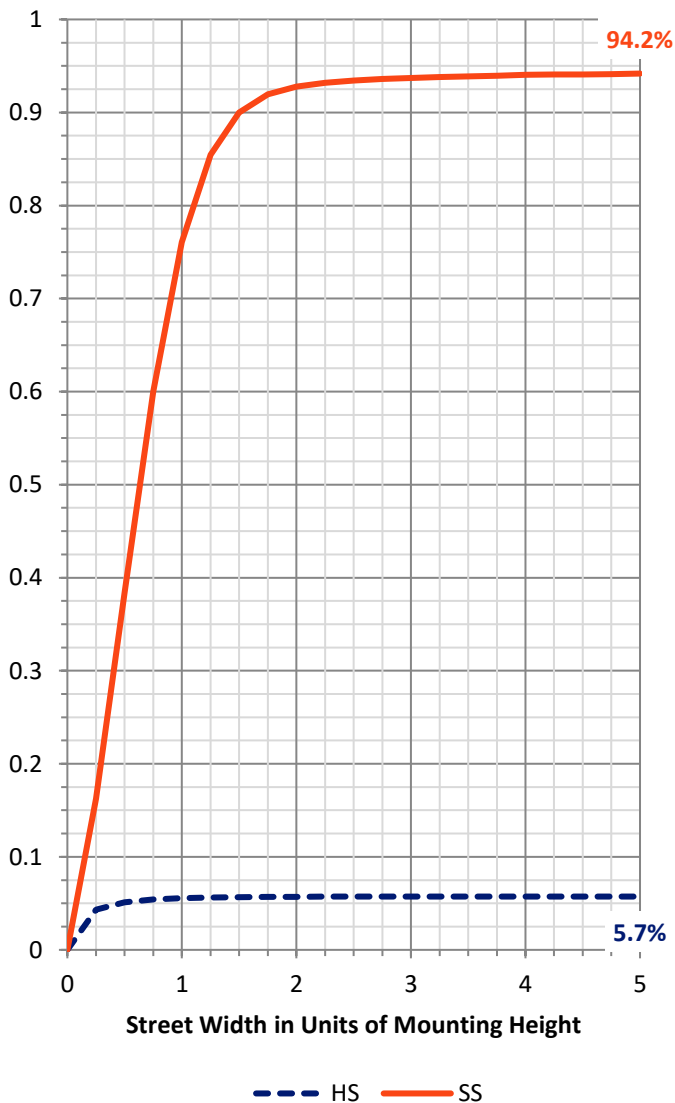
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.0	0.0	304.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4966.6	0.0	4966.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	5270.5	0.0	5270.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	1.0
10°-20°	210.0	4.0
20°-30°	449.3	8.5
30°-40°	825.9	15.7
40°-50°	1266.1	24.0
50°-60°	1339.4	25.4
60°-70°	874.7	16.6
70°-80°	239.0	4.5
80°-90°	12.9	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°	5270.5	100.0
0°-180°	5270.5	100.0

Coefficient of Utilization

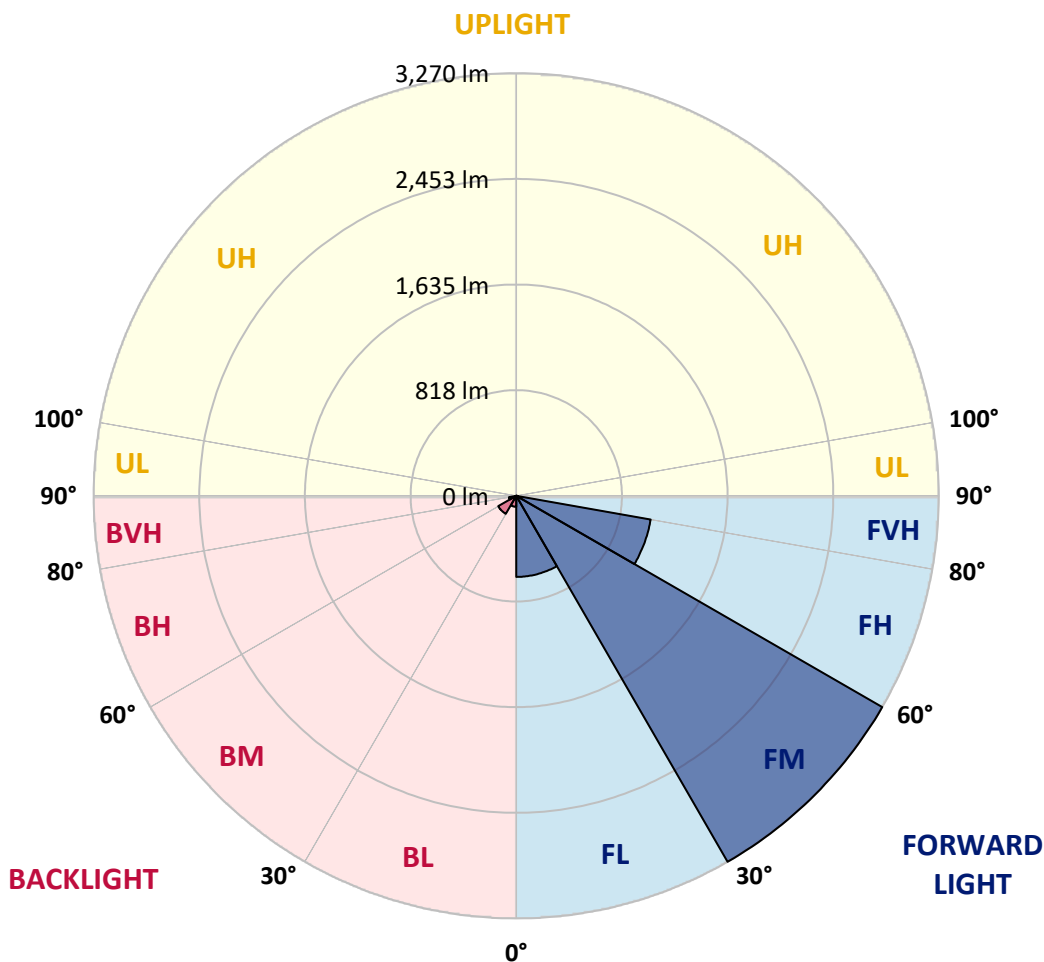


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.7	11.9			
FM (30°-60°)	3270.5	62.1			
FH (60°-80°)	1056.6	20.0			G1/1800
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	84.9	1.6	B0/110		
BM (30°-60°)	160.9	3.1	B0/220		
BH (60°-80°)	57.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	645.9	640.1	628.5	624.4	607.4	580.8	557.5	526.2	501.4	498.9	469.0
5°	865.0	851.8	846.4	820.2	779.1	740.5	674.3	624.1	566.2	561.9	501.8
7.5°	1076.1	1057.8	1052.3	1027.6	979.6	918.8	832.9	741.6	649.9	641.5	545.8
10°	1228.9	1231.4	1221.6	1205.2	1166.3	1104.4	998.5	873.7	743.1	732.5	595.3
12.5°	1338.4	1338.0	1339.9	1339.5	1318.8	1271.8	1160.4	1016.7	845.7	824.9	652.1
15°	1409.7	1410.8	1416.2	1435.2	1437.4	1408.3	1315.5	1153.5	964.7	938.8	713.6
17.5°	1481.8	1489.4	1498.2	1516.0	1532.0	1520.4	1454.8	1296.1	1072.4	1053.1	779.4
20°	1600.8	1611.4	1606.2	1617.2	1625.5	1626.6	1576.0	1427.9	1203.1	1170.7	854.8
22.5°	1791.1	1790.7	1777.6	1757.9	1741.6	1740.9	1695.0	1563.3	1321.6	1290.3	930.5
25°	2031.6	2032.7	2007.2	1951.2	1910.4	1860.5	1807.8	1681.9	1448.6	1410.1	1010.1
27.5°	2307.5	2300.6	2262.0	2184.8	2104.0	2018.9	1942.8	1819.8	1583.3	1551.3	1101.5
30°	2555.2	2552.7	2507.6	2413.3	2307.1	2221.6	2111.3	1992.7	1757.6	1718.3	1203.7
32.5°	2786.0	2789.6	2727.0	2629.5	2526.9	2428.2	2311.8	2157.9	1928.7	1873.0	1315.1
35°	2966.1	2969.7	2905.0	2823.8	2718.3	2636.4	2525.4	2334.0	2097.5	2050.5	1443.2
37.5°	3062.2	3066.9	3029.4	2968.3	2902.4	2861.3	2758.0	2560.7	2302.7	2274.3	1594.5
40°	3080.3	3085.8	3069.4	3053.1	3049.4	3078.9	3048.7	2827.8	2587.3	2542.8	1820.2
42.5°	3025.7	3033.1	3040.3	3076.7	3151.0	3259.0	3364.2	3190.2	2953.7	2894.0	2096.0
45°	2882.4	2881.7	2910.4	3004.6	3171.0	3401.7	3693.8	3644.1	3453.0	3382.0	2485.7
47.5°	2637.1	2633.5	2695.7	2830.0	3089.1	3427.8	3962.8	4195.0	4090.1	4024.7	2904.6
50°	2263.4	2281.2	2379.1	2566.6	2885.6	3348.5	4045.7	4556.3	4613.1	4543.6	3243.0
52.5°	1825.6	1824.9	1978.5	2232.9	2584.4	3173.8	3987.9	4621.8	4783.0	4729.9	3409.7
55°	1351.2	1360.6	1520.4	1776.9	2193.2	2855.1	3799.0	4554.4	4847.8	4810.3	3519.6
57°	1005.1	1021.8	1149.9	1421.4	1852.6	2539.6	3547.6	4434.0	4873.3	4852.9	3610.9
57.5°	938.1	938.8	1063.7	1310.4	1752.9	2418.5	3475.5	4383.8	4872.5	4861.2	3625.8
60°	577.5	595.7	682.0	885.7	1283.1	1887.5	2992.6	4095.2	4834.7	4851.1	3689.5
62.5°	345.7	353.3	409.4	533.9	827.1	1377.7	2449.0	3725.9	4736.1	4785.9	3685.2
65°	222.4	224.1	249.6	323.1	517.1	931.2	1887.1	3237.9	4480.9	4572.7	3541.0
67.5°	171.7	174.7	184.9	212.2	299.8	580.0	1334.8	2717.2	4068.3	4186.6	3191.7
70°	152.5	153.9	157.6	166.3	198.3	327.5	830.4	2122.6	3373.7	3407.1	2497.8
72.5°	124.5	128.4	139.8	142.6	157.2	204.5	462.1	1424.7	2266.7	2275.1	1397.3
75°	96.5	97.1	113.9	122.3	132.5	140.9	206.3	718.3	1088.8	1030.6	538.6
77.5°	72.1	75.4	83.0	93.5	108.1	100.8	92.4	270.7	338.1	331.9	156.5
80°	46.3	48.0	57.9	70.2	84.1	65.9	52.1	79.3	74.3	76.4	37.5
82.5°	23.3	23.6	37.1	57.1	53.5	33.1	32.7	32.4	27.7	27.3	17.5
85°	2.5	5.5	24.1	32.7	24.1	10.9	15.3	14.9	14.5	14.9	10.2
87.5°	0.3	0.3	4.0	4.7	3.3	3.6	4.4	4.7	5.8	5.5	4.4
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°	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4	441.4
2.5°	454.5	439.9	413.0	387.2	367.9	355.5	339.5	333.7	325.3	324.2	320.3
5°	474.2	446.5	399.6	362.5	332.6	310.1	290.4	274.0	260.9	258.0	259.4
7.5°	502.2	461.0	395.5	345.0	303.5	264.9	233.6	214.4	200.5	195.4	196.1
10°	533.9	480.4	394.8	326.4	263.1	215.8	181.6	164.5	156.5	153.6	150.3
12.5°	571.3	502.5	393.0	297.6	218.7	172.2	147.8	137.6	129.9	127.7	127.7
15°	613.5	526.2	384.3	262.0	177.6	142.3	125.9	117.9	115.4	113.2	113.2
17.5°	657.6	549.5	366.1	218.0	147.3	121.9	111.7	107.0	103.4	100.8	100.8
20°	707.8	572.4	337.0	179.0	124.5	108.8	100.8	95.4	92.4	90.2	89.5
22.5°	755.5	591.0	299.8	147.0	108.4	97.9	90.6	84.8	81.9	80.8	80.8
25°	804.9	602.2	255.1	121.5	99.0	88.8	80.8	76.0	73.5	72.7	72.4
27.5°	852.9	608.8	215.8	106.2	90.2	80.4	72.7	69.1	66.6	65.9	66.2
30°	911.2	609.9	177.6	95.4	82.6	72.4	65.5	62.2	60.8	60.0	59.7
32.5°	970.2	608.5	149.2	88.8	75.4	65.5	59.7	57.1	56.0	54.9	54.9
35°	1036.4	600.8	127.0	82.2	68.4	59.7	54.6	52.4	51.0	49.9	49.5
37.5°	1118.6	596.8	114.3	74.9	62.2	54.2	49.5	47.3	46.3	44.7	44.4
40°	1248.1	614.6	110.3	68.4	56.0	49.1	44.7	42.2	40.8	39.3	38.9
42.5°	1409.7	645.9	103.7	61.9	50.5	44.4	40.0	37.1	34.6	32.7	32.0
45°	1618.9	687.0	93.5	54.9	45.8	39.3	35.3	31.6	28.3	26.9	26.6
47.5°	1838.4	726.7	84.4	49.5	40.8	34.9	30.5	26.6	23.6	22.5	22.2
50°	1973.0	734.7	78.6	43.3	35.7	30.2	25.8	22.2	20.4	19.3	19.3
52.5°	2034.5	722.0	70.6	37.8	30.9	26.6	22.2	19.3	18.2	17.5	17.1
55°	2077.4	702.3	60.0	32.7	26.6	22.5	19.7	17.5	16.0	15.3	14.9
57°	2102.6	675.7	52.1	28.8	23.0	19.7	17.5	15.6	14.2	12.7	12.7
57.5°	2103.7	665.6	49.9	28.3	21.9	18.9	17.1	15.3	13.5	12.0	11.6
60°	2071.3	595.7	40.0	24.1	17.5	16.0	14.2	12.0	9.4	8.0	7.7
62.5°	1967.2	506.9	33.1	20.4	14.2	12.4	10.2	9.1	6.6	4.7	4.7
65°	1809.7	411.2	28.3	16.4	11.6	9.1	6.9	6.6	4.0	2.2	1.9
67.5°	1581.8	320.3	24.1	13.5	9.8	6.6	4.7	4.4	2.2	0.8	0.0
70°	1205.2	218.3	20.0	10.9	7.3	4.7	3.3	2.5	1.4	0.3	0.0
72.5°	694.7	120.1	16.7	8.4	5.5	3.6	2.5	1.4	1.4	0.0	0.0
75°	248.2	51.6	12.7	6.2	4.4	2.9	1.9	0.8	1.1	0.3	0.0
77.5°	79.0	27.7	8.4	4.7	3.6	2.2	1.4	0.8	0.8	0.3	0.0
80°	23.3	14.5	5.1	4.0	2.5	1.9	1.1	0.3	0.8	0.3	0.0
82.5°	12.7	7.3	4.0	2.9	2.5	1.4	1.1	0.3	0.3	0.3	0.0
85°	6.6	4.4	3.3	2.9	2.5	1.4	1.1	0.3	0.0	0.3	0.3
87.5°	3.6	3.3	3.3	2.9	2.5	1.9	1.1	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)