

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: P651196

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.9 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

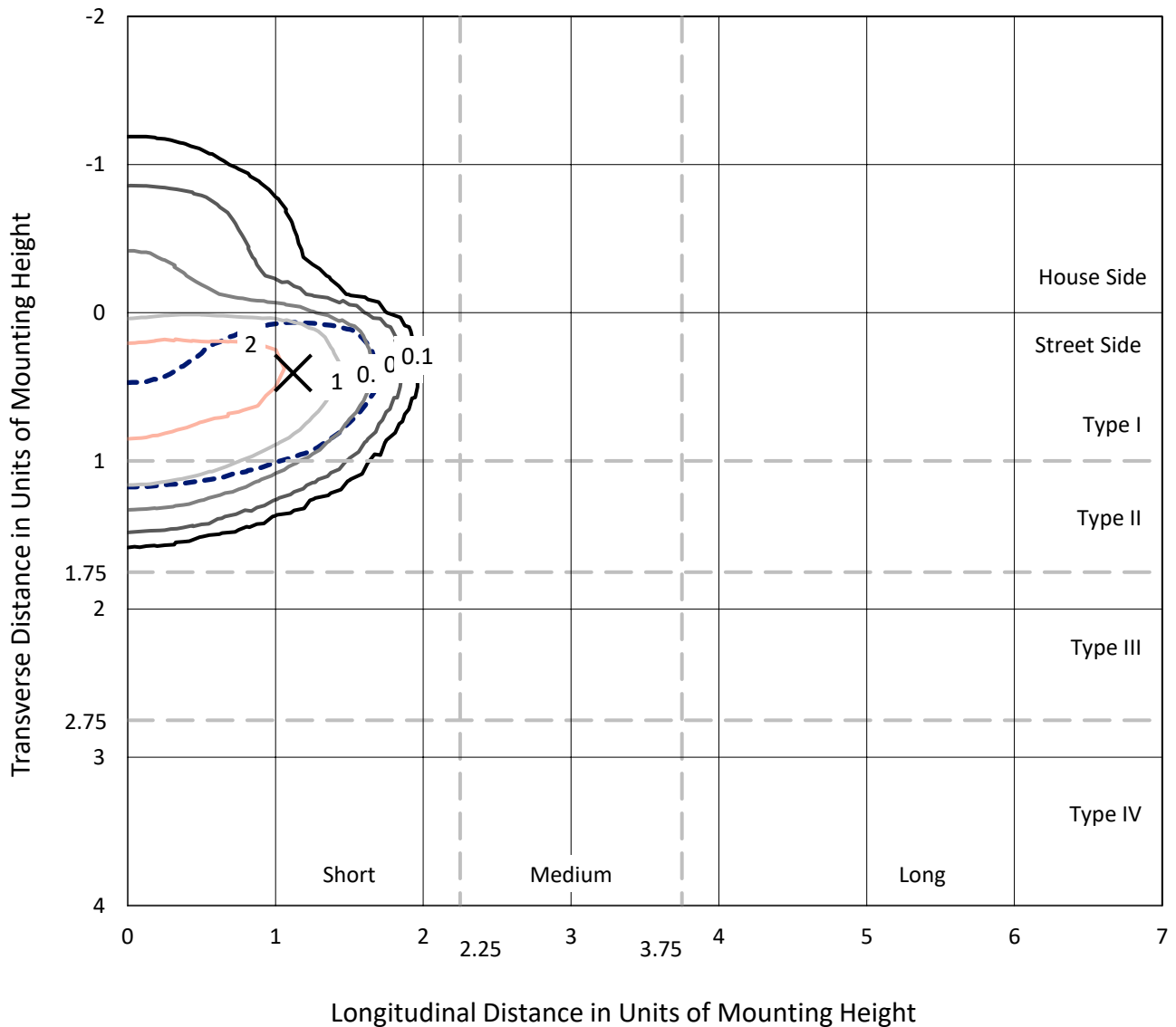
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

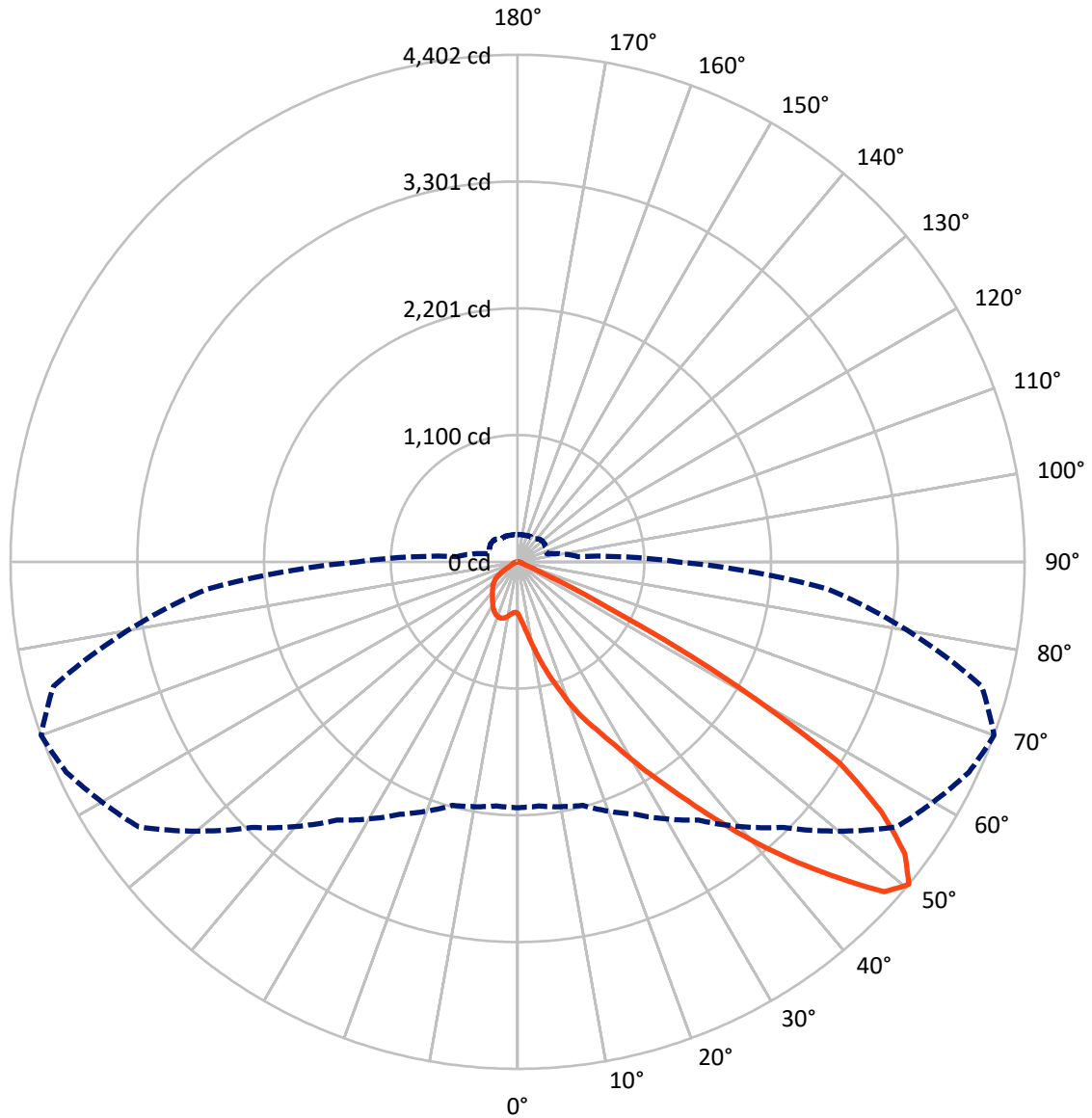
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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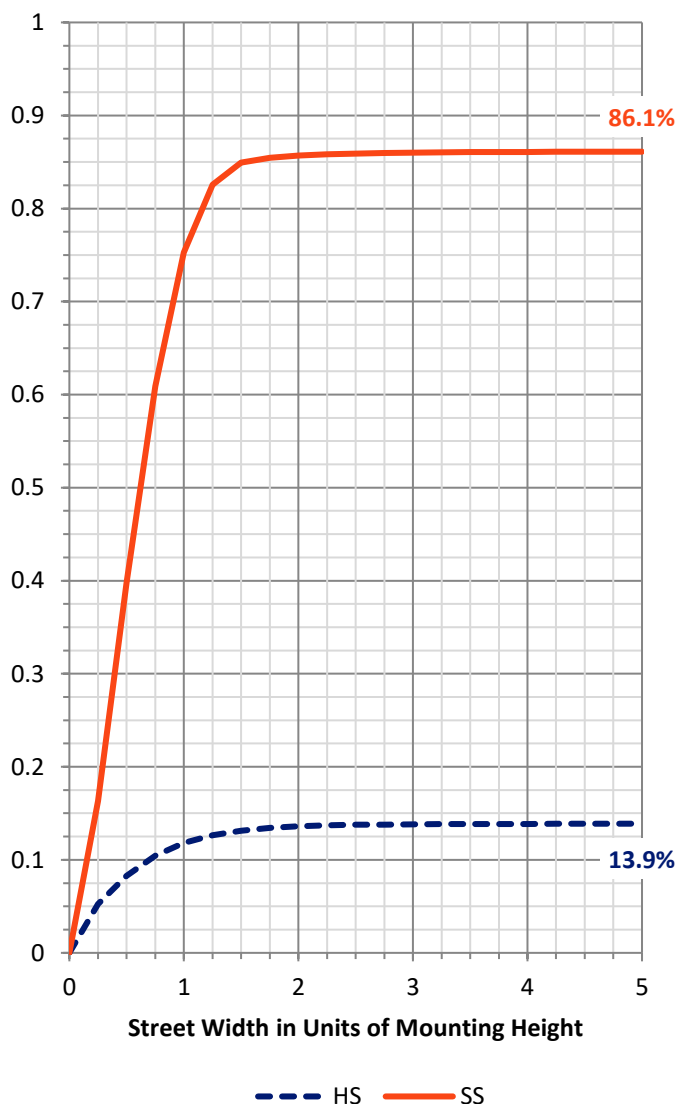
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.0	0.0	608.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3745.8	0.0	3745.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	4353.9	0.0	4353.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.3
10°-20°	253.7	5.8
20°-30°	532.2	12.2
30°-40°	917.3	21.1
40°-50°	1340.6	30.8
50°-60°	1044.1	24.0
60°-70°	176.9	4.1
70°-80°	24.3	0.6
80°-90°	6.3	0.1
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°	4353.9	100.0
0°-180°	4353.9	100.0

Coefficient of Utilization

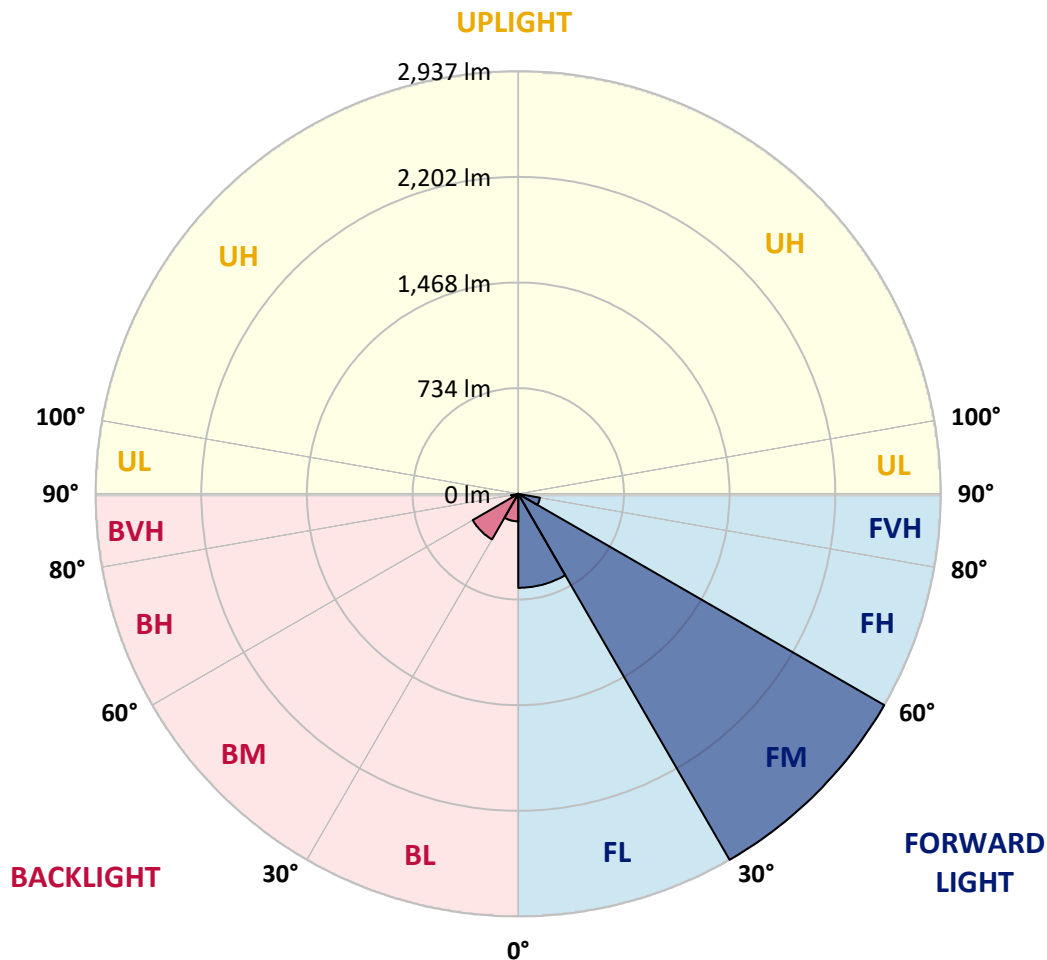


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.1	15.0			
FM (30°-60°)	2936.6	67.4			
FH (60°-80°)	153.2	3.5			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	191.3	4.4	B1/500		
BM (30°-60°)	365.3	8.4	B1/1000		
BH (60°-80°)	48.0	1.1	B0/110		G0/110
BVH (80°-90°)	3.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9
2.5°	590.6	586.3	576.9	559.8	552.6	535.5	525.5	506.1	493.9	480.3	465.3
5°	831.8	809.6	796.0	776.7	720.1	685.1	627.0	577.7	554.8	529.7	495.3
7.5°	1080.9	1066.6	1048.0	1006.4	967.8	894.8	795.2	686.5	639.9	597.0	529.0
10°	1287.1	1247.0	1244.8	1214.1	1171.8	1084.5	965.0	829.6	746.6	683.6	576.9
12.5°	1431.0	1394.5	1410.9	1407.3	1368.0	1287.7	1149.6	970.7	884.1	786.0	626.4
15°	1561.9	1546.9	1541.9	1537.6	1521.9	1462.4	1338.6	1142.5	1017.2	899.1	682.2
17.5°	1690.1	1651.4	1670.1	1673.6	1672.2	1618.5	1502.5	1305.7	1158.2	1018.6	740.9
20°	1803.9	1807.5	1782.4	1777.4	1773.1	1771.0	1657.9	1467.5	1331.5	1143.9	817.5
22.5°	1949.9	1924.9	1947.1	1932.8	1904.9	1887.6	1801.0	1610.6	1481.8	1295.0	895.5
25°	2122.4	2142.4	2090.2	2084.5	2053.7	1994.3	1916.3	1771.0	1626.4	1435.3	979.9
27.5°	2335.0	2300.0	2286.3	2254.9	2199.0	2174.0	2082.3	1936.3	1801.0	1582.7	1061.6
30°	2517.6	2508.3	2440.2	2403.1	2354.4	2353.6	2225.5	2160.4	2028.7	1814.0	1174.0
32.5°	2666.5	2625.7	2600.6	2574.8	2535.4	2546.2	2438.1	2403.7	2271.4	2028.7	1306.4
35°	2766.0	2736.6	2721.6	2682.2	2670.8	2718.7	2673.6	2659.3	2550.5	2330.7	1461.7
37.5°	2797.5	2806.8	2803.9	2754.5	2778.8	2908.4	2966.4	2929.2	2871.9	2649.3	1629.9
40°	2825.4	2831.8	2817.5	2875.5	2944.9	3092.4	3302.1	3240.5	3219.1	2972.1	1864.0
42.5°	2841.2	2836.1	2836.1	2936.4	3041.6	3337.9	3626.4	3585.6	3569.1	3315.7	2134.6
45°	2773.1	2724.4	2776.7	2912.7	3124.6	3458.9	3885.5	3942.1	3918.5	3724.5	2451.0
47.5°	2519.0	2549.1	2578.4	2760.2	3023.6	3421.7	4044.5	4237.0	4280.7	4068.1	2658.6
50°	2134.6	2128.2	2189.0	2418.0	2738.0	3261.3	4013.7	4322.2	4401.6	4171.2	2702.3
52.5°	1552.7	1599.9	1665.8	1893.3	2272.8	2846.1	3616.4	4102.4	4208.4	4044.5	2673.6
55°	904.1	851.8	1000.0	1192.5	1550.5	2146.8	3057.3	3636.4	3832.5	3813.9	2529.1
57.5°	362.2	350.8	401.6	541.2	808.9	1330.7	2223.4	2987.9	3302.1	3493.3	2222.7
60°	158.9	155.3	182.5	220.5	330.7	613.5	1216.2	1858.3	2186.2	2441.0	1529.7
62.5°	114.5	113.1	126.7	140.3	174.7	267.0	511.1	748.7	933.4	1127.4	685.1
65°	92.3	96.0	105.2	112.4	128.8	148.2	180.4	208.3	255.6	264.8	151.0
67.5°	75.2	78.0	86.6	94.5	97.4	80.1	83.0	73.0	73.0	65.2	52.2
70°	55.1	55.8	65.9	75.2	60.1	32.2	56.5	56.5	50.8	48.7	44.4
72.5°	40.8	41.5	49.4	46.5	23.6	20.0	41.5	45.8	41.5	39.4	35.8
75°	30.0	30.8	25.7	10.8	10.0	12.9	24.3	31.5	30.0	29.4	27.2
77.5°	5.7	4.3	3.6	5.0	7.1	10.8	15.7	19.3	20.0	21.4	20.0
80°	0.8	0.8	2.2	4.3	7.9	11.4	16.5	18.6	19.3	20.0	18.6
82.5°	0.0	0.8	2.2	4.3	7.9	10.8	14.3	16.5	17.9	18.6	17.9
85°	0.0	0.8	1.4	3.6	6.5	7.9	7.1	5.0	4.3	5.0	3.6
87.5°	0.0	0.0	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9	450.9
2.5°	456.7	453.8	443.8	433.1	423.8	428.1	423.8	420.2	421.6	420.2	418.7
5°	481.7	468.9	447.4	438.1	430.3	429.5	427.3	426.6	427.3	427.3	420.9
7.5°	505.4	484.6	461.7	451.7	442.4	443.1	438.1	438.1	437.4	433.8	432.4
10°	541.2	513.3	483.9	466.0	454.6	452.4	447.4	442.4	442.4	442.4	435.2
12.5°	580.5	545.5	505.4	484.6	471.0	460.3	452.4	450.9	443.1	441.7	438.1
15°	614.9	570.5	519.7	491.1	473.9	459.5	447.4	439.5	436.0	433.8	430.9
17.5°	648.6	592.0	527.6	491.1	472.5	456.0	443.1	436.0	427.3	428.7	423.0
20°	693.7	614.9	529.7	481.7	458.8	443.1	425.9	422.4	417.3	413.0	414.4
22.5°	737.3	631.3	523.3	470.3	437.4	418.7	410.2	405.9	403.8	400.1	395.1
25°	776.7	649.3	513.3	449.5	414.4	400.9	393.0	392.2	387.3	387.3	377.9
27.5°	816.8	655.7	496.1	425.2	394.4	386.5	383.0	381.6	379.4	374.4	367.9
30°	862.6	657.8	471.0	400.1	376.5	367.9	373.0	376.5	367.2	357.9	360.8
32.5°	900.5	652.9	440.9	376.5	363.6	359.4	369.4	373.0	362.2	352.2	347.2
35°	946.3	640.7	411.6	357.9	350.8	359.4	367.9	367.9	346.5	334.3	331.4
37.5°	1015.8	627.0	384.4	342.2	337.2	355.1	366.5	358.6	325.0	310.0	306.4
40°	1090.2	618.5	357.9	326.4	330.0	347.9	354.3	330.0	295.6	286.4	283.5
42.5°	1198.3	601.3	334.3	312.9	323.5	337.9	337.9	294.2	281.3	276.4	275.6
45°	1332.9	589.1	313.5	301.3	314.3	317.8	306.4	275.6	266.3	264.8	265.6
47.5°	1398.8	565.5	292.1	287.8	297.0	297.8	267.7	260.5	252.7	250.5	249.1
50°	1388.7	523.3	264.2	269.9	282.7	275.6	244.1	245.6	238.3	237.7	234.1
52.5°	1318.5	456.7	236.2	249.9	264.2	243.4	224.8	223.4	223.4	214.0	210.4
55°	1169.0	367.9	202.6	219.8	236.9	204.7	199.7	198.3	194.7	186.1	183.9
57.5°	925.6	269.9	152.5	171.1	201.2	173.9	173.2	166.8	157.5	151.0	151.0
60°	550.4	155.3	96.0	104.5	133.1	141.0	156.8	153.9	138.2	128.2	125.3
62.5°	251.3	80.1	60.8	62.3	71.6	91.6	123.1	142.5	120.3	103.1	101.7
65°	84.4	59.4	50.1	47.9	49.4	55.1	73.8	100.9	96.0	79.5	76.6
67.5°	51.6	53.0	47.3	43.6	43.6	43.0	42.2	45.8	56.5	55.1	55.8
70°	44.4	48.7	43.6	39.4	37.9	35.8	30.0	25.1	21.4	25.1	26.5
72.5°	35.8	38.7	37.3	33.6	30.0	27.2	21.4	16.5	12.2	10.8	10.8
75°	26.5	28.6	30.0	25.7	22.9	19.3	15.7	10.8	6.5	4.3	4.3
77.5°	19.3	21.4	22.2	20.0	17.2	13.6	10.0	7.1	3.6	1.4	1.4
80°	16.5	19.3	21.4	20.0	17.9	12.9	9.3	5.0	2.9	0.8	0.8
82.5°	15.7	19.3	21.4	19.3	17.2	12.2	9.3	5.7	2.2	0.8	0.8
85°	3.6	5.0	6.5	7.9	9.3	9.3	7.1	4.3	2.2	0.8	0.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.8	0.8	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)