

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: P526422

Luminaire Tested: **GALN-SA1B-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-760-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5060 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

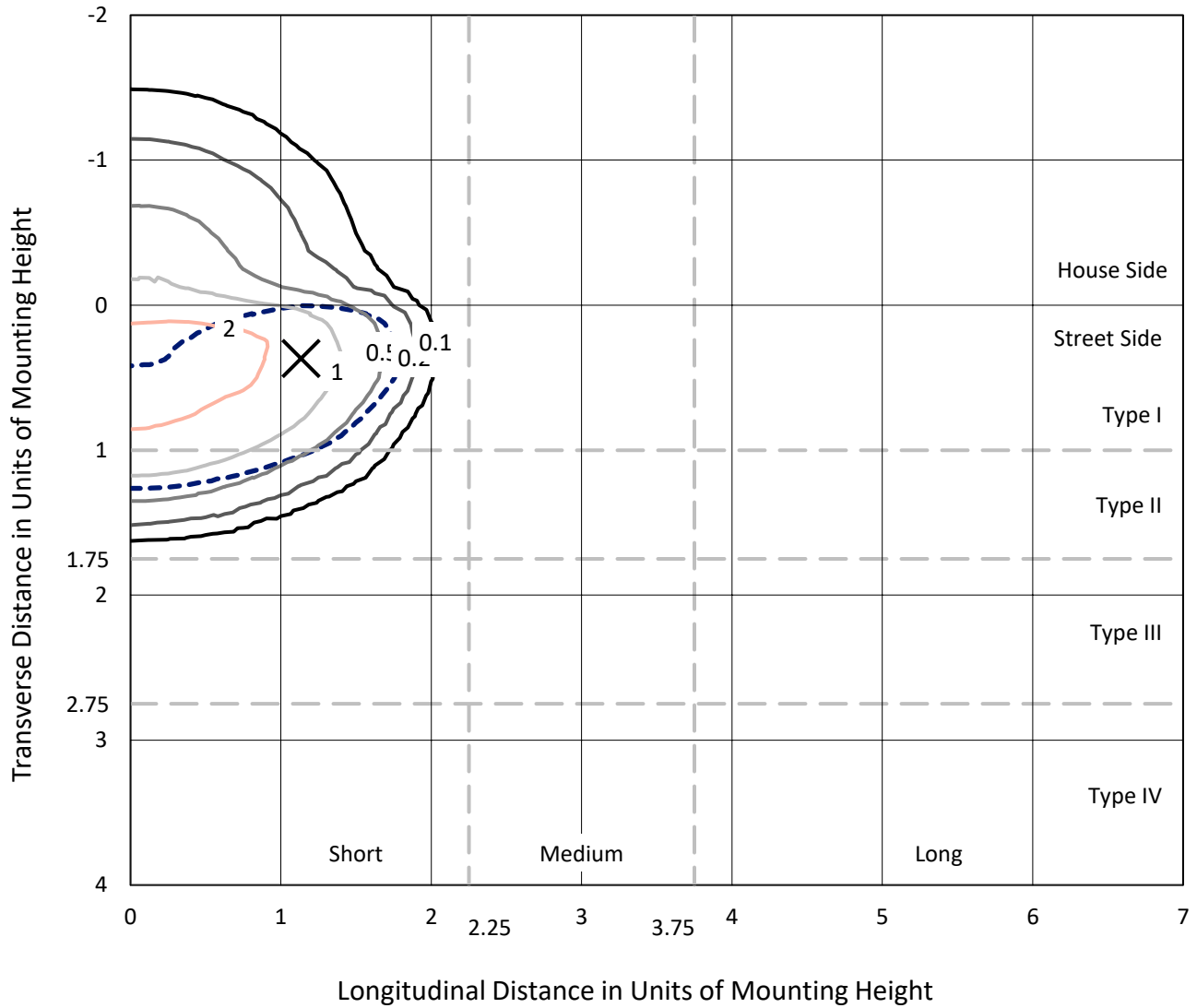
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

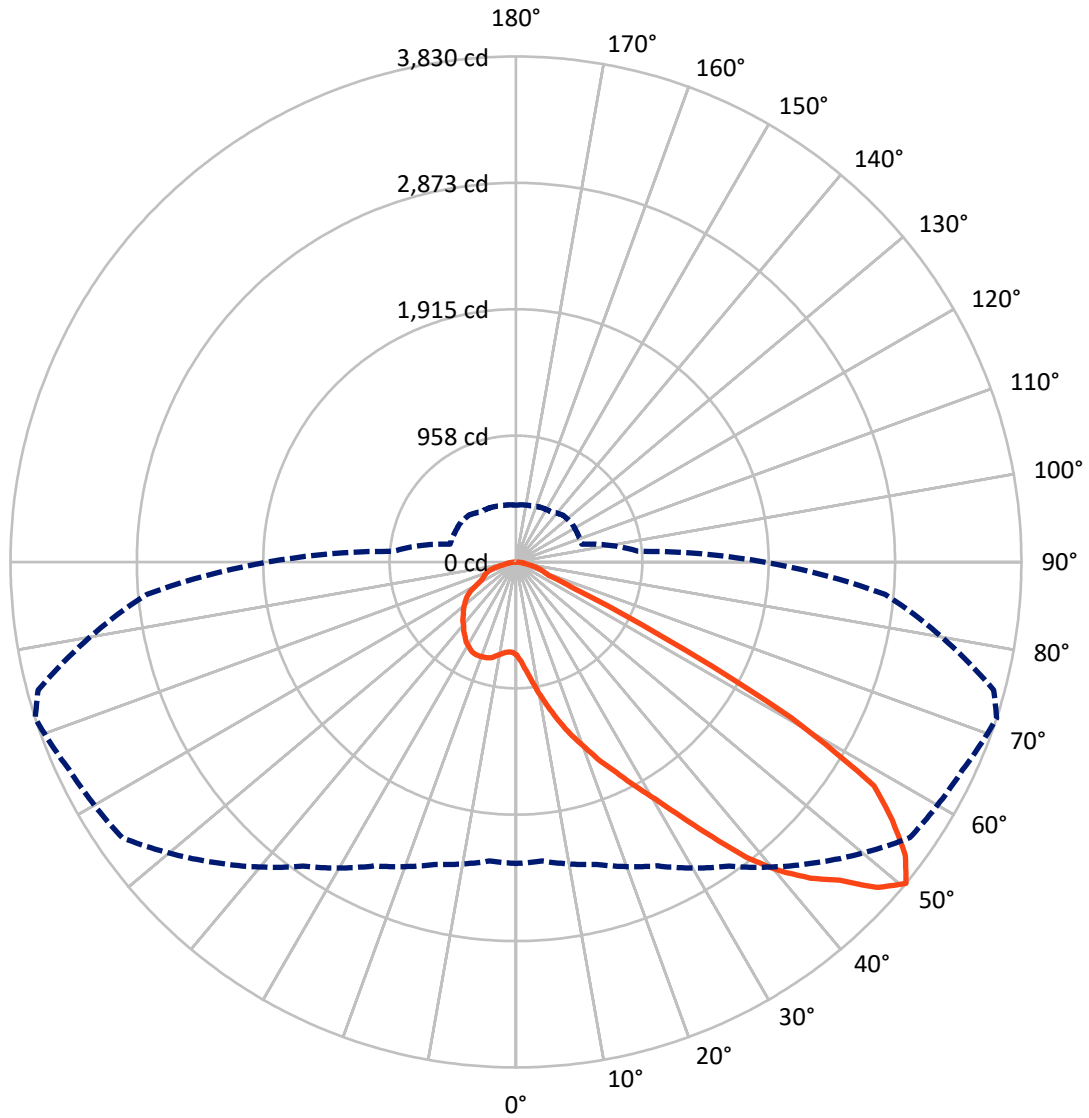
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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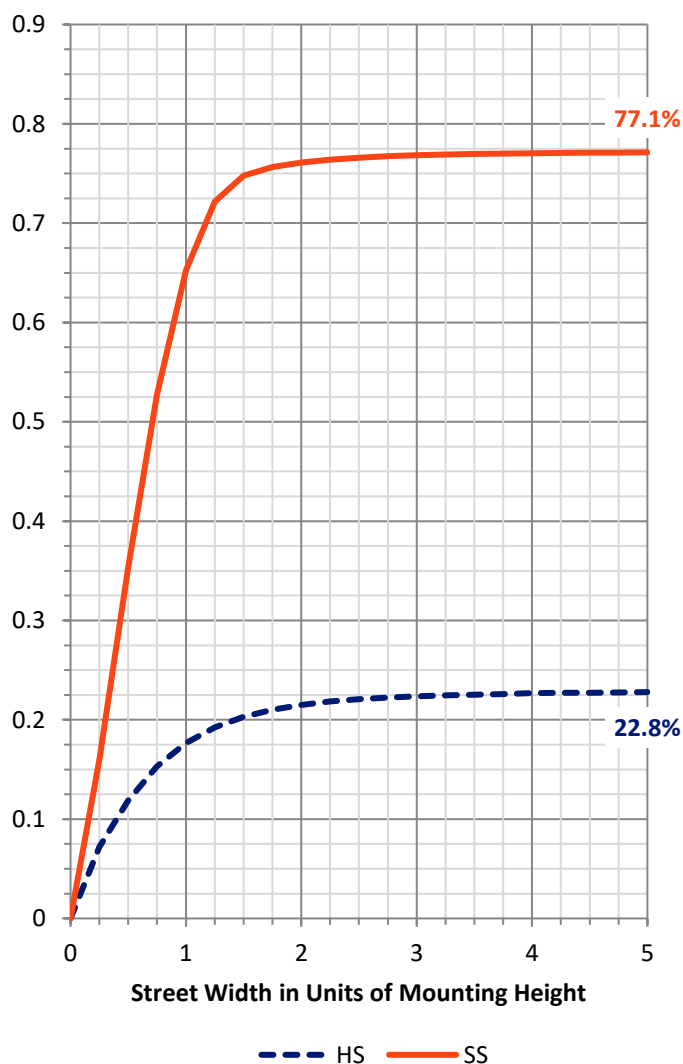
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.3	0.0	1159.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3900.7	0.0	3900.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	5060.0	0.0	5060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.6
10°-20°	309.7	6.1
20°-30°	600.6	11.9
30°-40°	994.9	19.7
40°-50°	1392.1	27.5
50°-60°	1174.4	23.2
60°-70°	358.0	7.1
70°-80°	125.6	2.5
80°-90°	21.8	0.4
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°	5060.0	100.0
0°-180°	5060.0	100.0

Coefficient of Utilization



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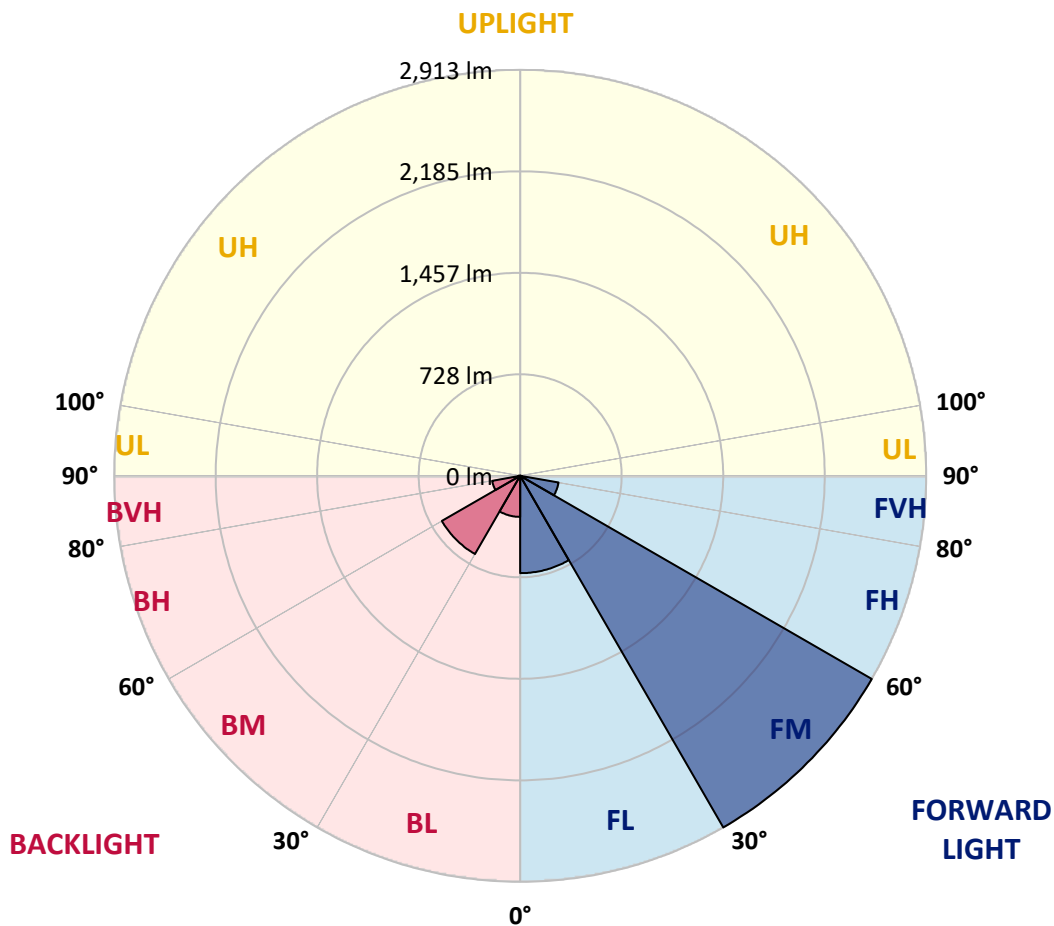
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.5	13.8			
FM (30°-60°)	2913.2	57.6			
FH (60°-80°)	279.3	5.5			G0/660
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	294.7	5.8	B1/500		
BM (30°-60°)	648.3	12.8	B1/1000		
BH (60°-80°)	204.2	4.0	B1/500		G1/500
BVH (80°-90°)	12.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	906.0	900.4	883.5	877.8	857.8	821.5	809.0	772.0	756.4	742.0	725.1
5°	1145.8	1119.5	1117.6	1085.7	1039.4	1012.5	932.3	878.5	829.0	803.9	757.6
7.5°	1298.6	1299.2	1299.2	1272.9	1236.0	1167.7	1095.7	998.7	924.2	887.2	808.3
10°	1443.9	1431.3	1424.4	1421.9	1396.9	1330.5	1253.5	1133.3	1031.2	988.0	846.5
12.5°	1546.5	1535.9	1551.5	1543.4	1525.3	1482.0	1409.4	1272.3	1144.6	1086.3	907.9
15°	1595.4	1602.9	1615.4	1638.0	1629.8	1613.5	1533.4	1415.1	1266.7	1200.9	962.4
17.5°	1670.5	1649.8	1664.9	1693.1	1715.6	1708.1	1662.4	1518.4	1387.5	1306.7	1035.6
20°	1723.1	1711.2	1718.7	1751.3	1768.2	1810.8	1787.0	1653.6	1503.3	1418.2	1122.0
22.5°	1873.4	1855.8	1831.4	1836.4	1842.7	1872.8	1878.4	1802.0	1638.0	1547.8	1204.0
25°	2058.7	2042.4	2013.6	1984.2	1966.0	1960.4	1979.8	1918.5	1766.9	1673.6	1292.3
27.5°	2262.8	2235.3	2217.1	2156.4	2107.6	2100.0	2090.6	2057.5	1919.7	1818.9	1391.9
30°	2461.3	2439.4	2415.0	2317.9	2267.2	2259.1	2212.7	2222.1	2085.6	1973.6	1504.6
32.5°	2611.6	2613.5	2557.7	2484.5	2436.9	2393.7	2376.8	2403.7	2298.5	2208.4	1630.4
35°	2733.1	2738.7	2685.5	2619.1	2567.8	2597.8	2590.3	2602.8	2552.7	2442.5	1777.0
37.5°	2851.4	2823.2	2766.2	2734.3	2707.4	2756.8	2820.7	2831.4	2840.7	2711.1	1947.3
40°	2870.8	2873.3	2840.1	2862.7	2828.9	2903.4	3051.8	3038.0	3076.2	2962.8	2132.0
42.5°	2843.3	2848.9	2862.0	2894.0	2975.4	3064.9	3285.3	3228.9	3275.3	3174.5	2311.7
45°	2798.2	2775.0	2791.3	2912.8	3053.6	3252.7	3498.8	3455.0	3440.0	3355.4	2525.8
47.5°	2582.8	2606.6	2657.3	2806.9	3018.6	3285.3	3650.3	3640.3	3685.4	3625.9	2720.5
50°	2284.1	2274.7	2372.4	2540.8	2813.8	3221.4	3642.2	3733.0	3830.0	3747.4	2807.6
52.5°	1710.6	1760.7	1844.6	2053.7	2443.2	2873.3	3464.4	3615.9	3694.8	3677.3	2737.4
55°	1081.3	1096.4	1147.1	1395.6	1746.3	2306.0	2969.7	3321.0	3461.9	3527.6	2672.9
57.5°	525.3	497.1	559.1	758.9	1008.7	1550.9	2290.4	2892.7	3198.9	3317.9	2532.7
60°	274.2	284.9	309.3	380.7	521.6	805.2	1427.6	1927.9	2395.6	2578.4	1919.7
62.5°	227.3	231.0	247.3	283.0	346.9	463.3	728.8	939.8	1221.6	1386.2	1092.0
65°	192.8	194.7	212.3	236.1	276.7	326.2	375.1	392.6	475.2	487.8	388.2
67.5°	160.9	162.8	181.6	204.1	230.4	243.6	256.1	254.8	264.2	260.5	259.8
70°	124.0	125.9	145.3	169.1	182.2	174.7	213.5	222.3	226.0	229.2	234.2
72.5°	89.5	93.3	108.3	125.2	118.3	135.9	175.9	189.1	194.1	196.0	202.2
75°	65.1	66.4	70.1	65.1	75.1	94.5	124.0	140.3	146.5	148.4	157.8
77.5°	28.8	29.4	30.1	37.6	48.2	58.9	73.9	87.0	95.8	98.3	100.8
80°	15.0	15.7	19.4	25.7	34.4	43.2	53.8	61.4	67.0	67.6	70.1
82.5°	9.4	10.0	13.8	18.2	24.4	31.9	39.4	45.7	50.1	50.7	51.3
85°	4.4	5.6	8.1	11.3	16.3	20.7	21.3	18.2	19.4	20.0	18.8
87.5°	1.3	1.9	2.5	1.9	2.5	2.5	3.1	3.8	3.8	3.8	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°	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4	704.4
2.5°	715.7	710.0	688.1	680.0	658.7	662.4	651.2	650.5	648.0	647.4	646.8
5°	733.2	715.7	689.4	669.3	657.4	656.2	648.0	648.0	650.5	652.4	648.0
7.5°	762.0	742.0	697.5	678.7	668.1	666.2	660.6	656.2	661.8	659.9	654.9
10°	795.2	760.1	713.2	696.9	679.3	675.0	675.0	676.8	667.5	670.6	665.6
12.5°	832.1	785.2	733.2	714.4	693.8	691.2	690.0	676.2	681.2	678.7	666.2
15°	879.1	814.0	758.9	726.9	709.4	698.1	681.9	679.3	676.2	670.0	664.3
17.5°	929.8	845.3	770.8	730.7	704.4	696.3	683.7	670.6	661.2	662.4	658.1
20°	973.0	874.1	775.1	734.4	700.6	685.0	665.6	657.4	647.4	646.8	646.2
22.5°	1024.3	912.9	781.4	724.4	689.4	673.1	659.9	645.5	638.7	629.9	634.3
25°	1085.7	927.9	782.7	718.8	681.2	652.4	645.5	629.9	627.4	614.9	617.4
27.5°	1130.2	936.1	772.6	701.3	662.4	640.5	628.0	616.7	612.4	603.0	600.5
30°	1189.6	948.6	751.4	679.3	643.7	619.2	611.7	609.2	596.7	586.7	585.4
32.5°	1257.3	956.7	737.6	656.8	624.3	605.5	609.2	597.3	581.7	572.9	570.4
35°	1311.1	959.9	703.1	631.1	611.1	599.2	594.8	592.3	569.8	561.6	555.4
37.5°	1393.1	953.0	674.3	613.0	596.7	592.3	588.6	571.7	546.0	534.1	525.3
40°	1488.9	951.1	637.4	587.3	582.9	587.9	576.7	550.4	514.7	501.5	495.3
42.5°	1581.0	964.2	614.2	573.5	567.9	569.8	554.1	514.7	497.1	489.6	479.6
45°	1735.0	991.8	576.0	552.2	549.7	548.5	529.7	488.4	478.4	469.0	467.1
47.5°	1874.0	973.6	551.6	530.3	532.8	525.9	485.9	472.7	461.5	452.1	448.9
50°	1882.1	930.4	517.2	513.4	514.1	502.2	464.0	455.2	440.8	434.5	430.2
52.5°	1839.6	859.7	485.2	486.5	488.4	469.0	437.0	430.8	418.9	410.1	407.6
55°	1720.0	749.5	453.9	459.0	464.0	427.0	417.0	401.3	392.0	379.4	380.1
57.5°	1515.2	603.6	410.1	418.3	428.9	388.2	380.7	361.3	347.5	337.5	336.2
60°	1015.6	429.5	344.4	347.5	371.3	355.0	354.4	335.0	316.2	307.4	302.4
62.5°	599.2	328.1	297.4	294.3	293.7	303.0	318.7	311.8	287.4	270.5	275.5
65°	313.7	283.6	276.7	266.1	259.8	257.3	269.2	272.4	256.1	237.9	236.7
67.5°	263.6	263.6	258.0	254.2	245.4	234.8	227.3	217.3	214.8	209.8	203.5
70°	239.8	246.1	244.2	235.4	227.9	216.0	196.6	180.3	164.7	159.0	162.8
72.5°	209.1	215.4	215.4	211.0	201.0	182.8	164.0	145.3	132.1	122.1	120.8
75°	160.9	164.0	171.6	166.6	153.4	142.1	122.7	103.3	90.8	81.4	79.5
77.5°	102.7	107.7	107.7	107.1	97.7	87.0	74.5	60.7	51.3	44.5	42.6
80°	68.2	71.4	73.9	71.4	65.1	57.0	47.6	38.2	31.3	25.7	24.4
82.5°	50.1	53.8	55.7	53.2	47.0	40.7	33.8	26.9	20.0	15.7	14.4
85°	19.4	20.0	22.5	26.9	26.3	25.7	20.7	15.0	11.3	8.1	7.5
87.5°	5.0	4.4	5.0	5.0	4.4	3.8	3.8	3.8	3.8	1.9	2.5
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)