

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: P648281

Luminaire Tested: **GALN-SA2B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648281
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-SA2B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5925.7 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

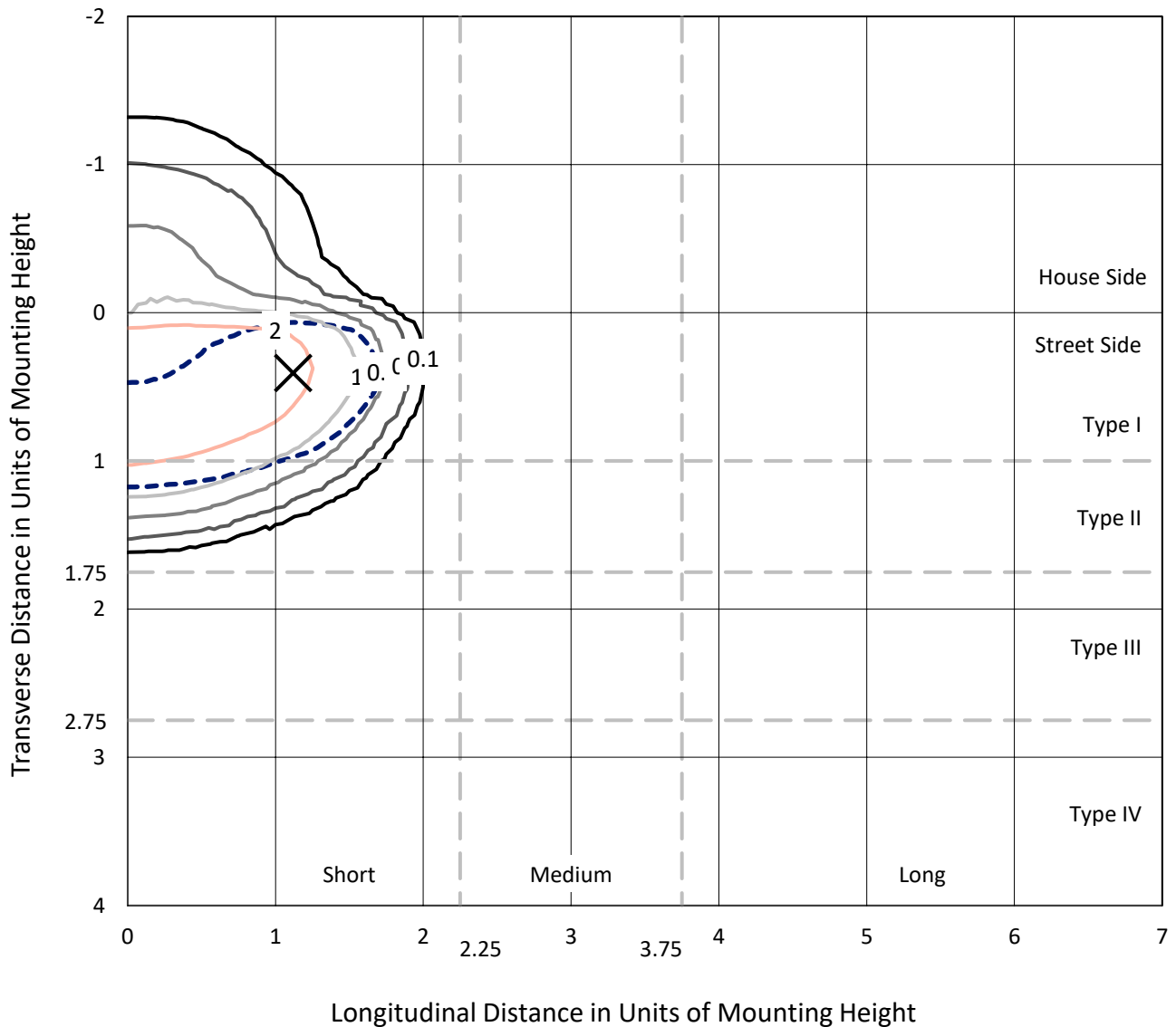
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

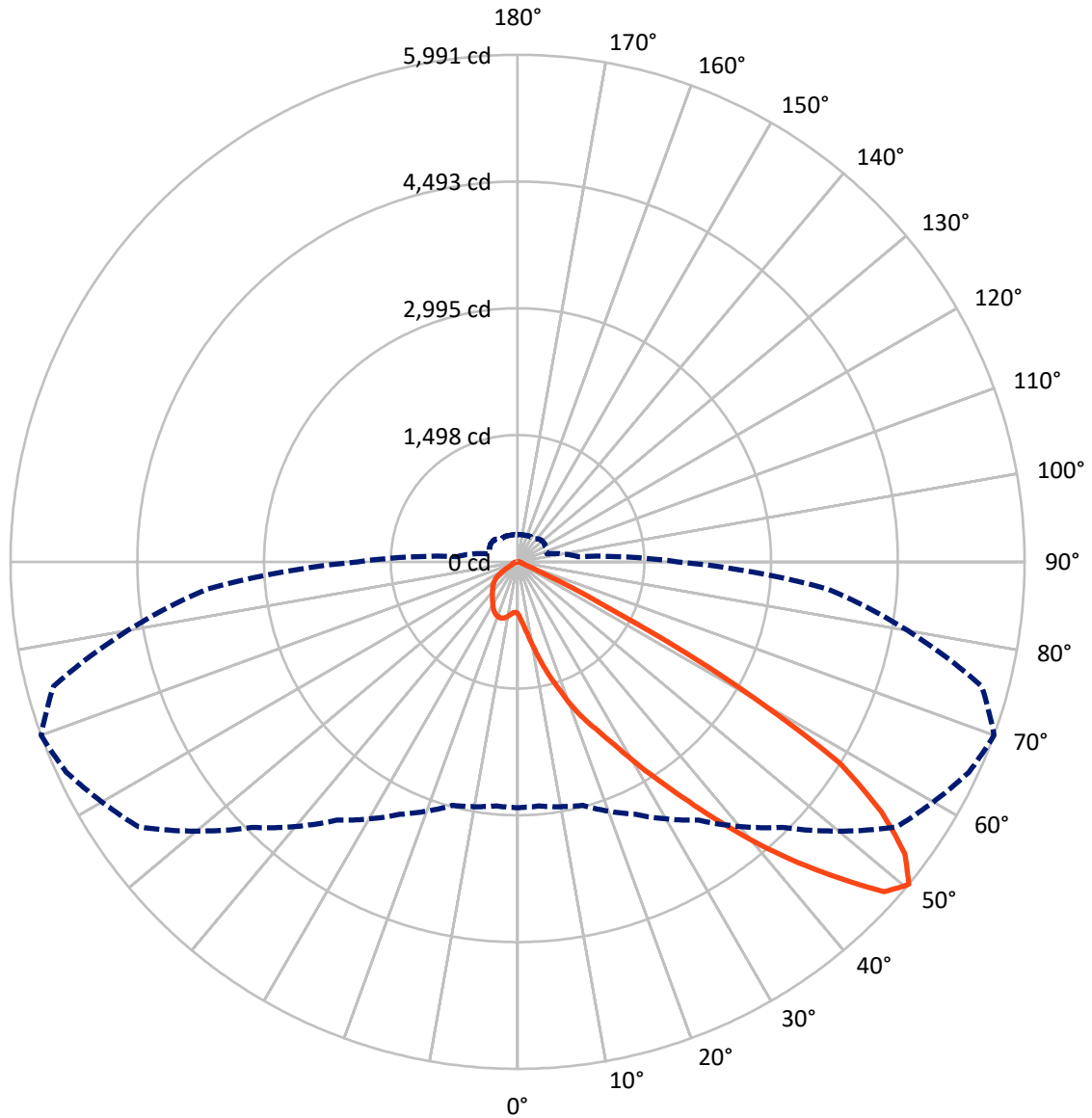
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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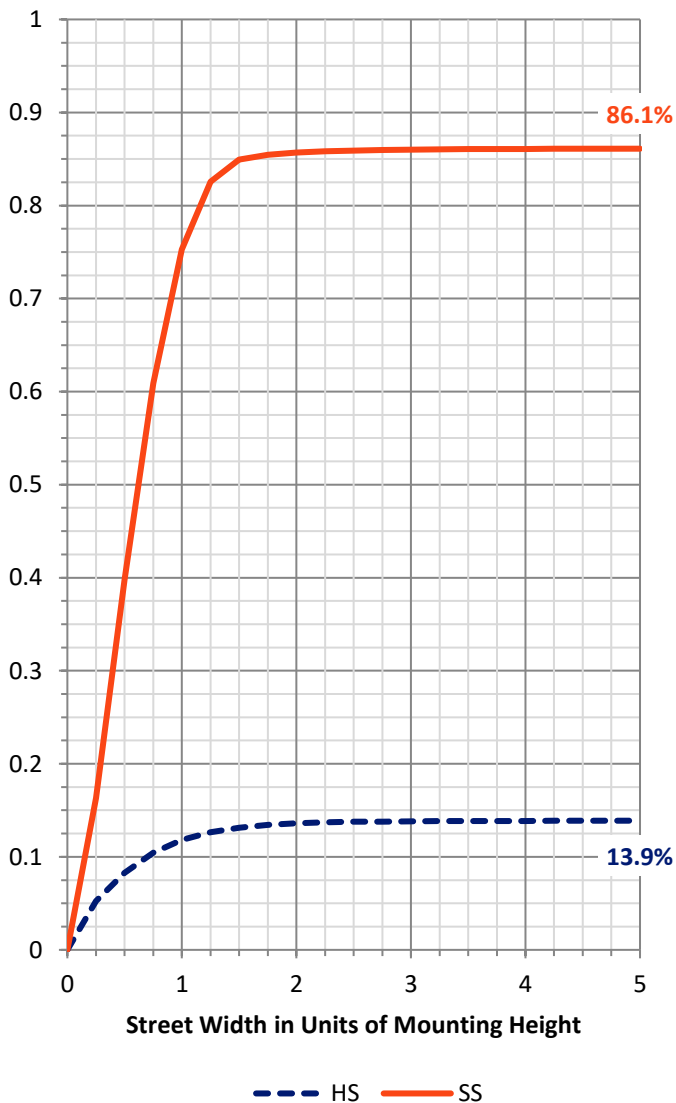
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.6	0.0	827.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5098.2	0.0	5098.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	5925.7	0.0	5925.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.3
10°-20°	345.3	5.8
20°-30°	724.3	12.2
30°-40°	1248.4	21.1
40°-50°	1824.5	30.8
50°-60°	1421.0	24.0
60°-70°	240.8	4.1
70°-80°	33.1	0.6
80°-90°	8.6	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°	5925.7	100.0
0°-180°	5925.7	100.0

Coefficient of Utilization

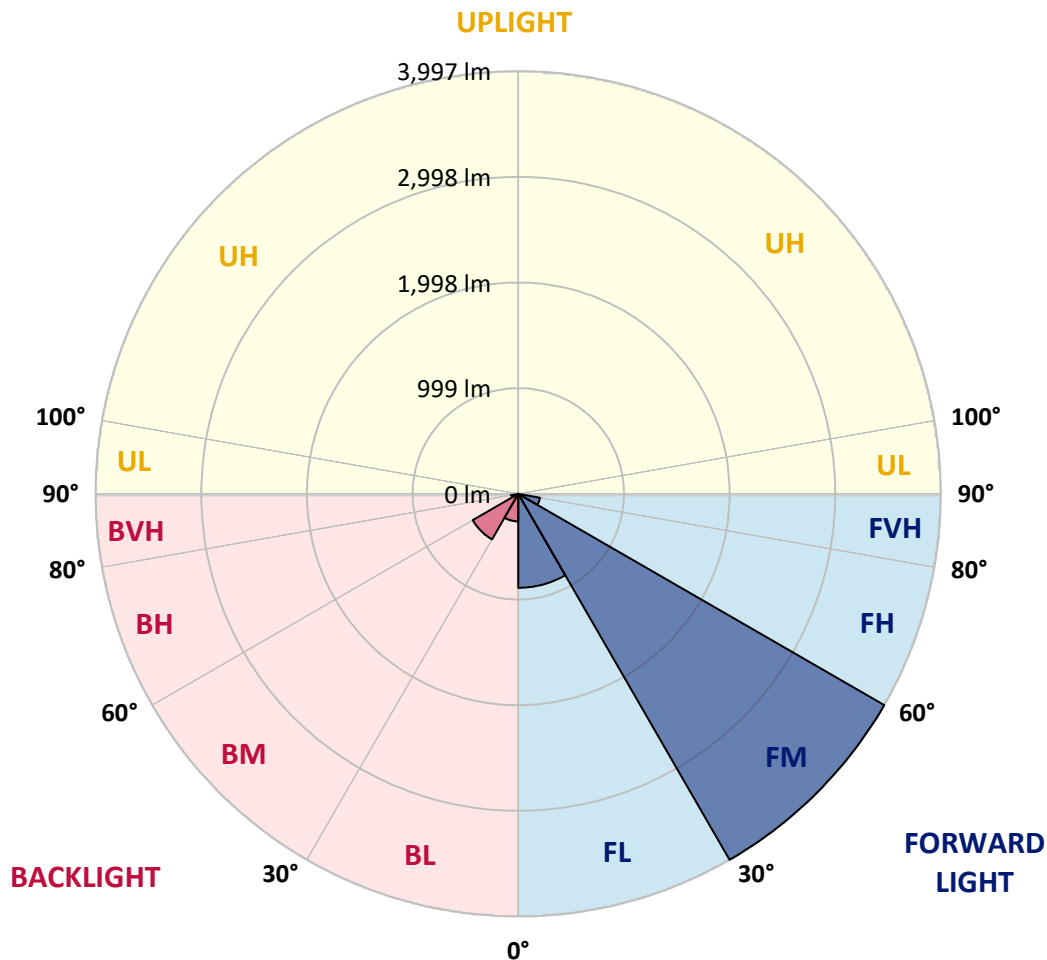


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.9	15.0			
FM (30°-60°)	3996.8	67.4			
FH (60°-80°)	208.5	3.5			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	260.4	4.4	B1/500		
BM (30°-60°)	497.2	8.4	B1/1000		
BH (60°-80°)	65.4	1.1	B0/110		G0/110
BVH (80°-90°)	4.6	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°	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8
2.5°	803.7	798.0	785.3	761.9	752.1	728.7	715.1	688.8	672.3	653.7	633.3
5°	1132.1	1101.9	1083.4	1057.0	980.1	932.4	853.5	786.2	755.0	721.0	674.2
7.5°	1471.2	1451.7	1426.3	1369.9	1317.2	1217.8	1082.4	934.4	871.0	812.5	720.0
10°	1751.7	1697.2	1694.3	1652.4	1594.9	1476.0	1313.3	1129.2	1016.2	930.4	785.3
12.5°	1947.6	1897.9	1920.3	1915.5	1861.8	1752.7	1564.7	1321.1	1203.2	1069.7	852.5
15°	2125.8	2105.4	2098.6	2092.7	2071.3	1990.5	1821.9	1555.0	1384.4	1223.7	928.5
17.5°	2300.2	2247.7	2273.0	2277.8	2275.9	2202.8	2045.0	1777.1	1576.3	1386.4	1008.3
20°	2455.2	2460.0	2426.0	2419.1	2413.3	2410.3	2256.4	1997.3	1812.2	1556.9	1112.6
22.5°	2653.9	2619.8	2650.0	2630.6	2592.5	2569.2	2451.3	2192.1	2016.8	1762.5	1218.8
25°	2888.7	2916.0	2844.9	2837.0	2795.2	2714.3	2608.1	2410.3	2213.5	1953.4	1333.8
27.5°	3178.0	3130.4	3111.8	3069.0	2992.9	2958.9	2834.1	2635.4	2451.3	2154.1	1444.9
30°	3426.5	3413.9	3321.3	3270.6	3204.3	3203.4	3029.0	2940.3	2761.1	2468.8	1597.8
32.5°	3629.1	3573.6	3539.6	3504.5	3450.8	3465.5	3318.4	3271.6	3091.4	2761.1	1778.0
35°	3764.6	3724.7	3704.1	3650.6	3635.0	3700.3	3638.9	3619.4	3471.4	3172.2	1989.4
37.5°	3807.4	3820.1	3816.2	3749.0	3782.1	3958.5	4037.4	3986.7	3908.7	3605.8	2218.4
40°	3845.5	3854.2	3834.7	3913.7	4008.2	4208.9	4494.3	4410.6	4381.3	4045.1	2537.0
42.5°	3866.8	3860.0	3860.0	3996.4	4139.6	4543.0	4935.6	4880.1	4857.7	4512.8	2905.2
45°	3774.3	3708.1	3779.2	3964.3	4252.7	4707.7	5288.3	5365.3	5333.2	5069.1	3335.9
47.5°	3428.4	3469.4	3509.3	3756.8	4115.3	4657.0	5504.6	5766.7	5826.1	5536.7	3618.5
50°	2905.2	2896.5	2979.3	3291.1	3726.6	4438.7	5462.8	5882.7	5990.8	5677.1	3677.9
52.5°	2113.2	2177.5	2267.1	2576.9	3093.3	3873.7	4922.0	5583.6	5727.7	5504.6	3638.9
55°	1230.5	1159.4	1361.1	1623.2	2110.3	2921.8	4161.1	4949.3	5216.3	5190.9	3442.1
57.5°	493.0	477.4	546.5	736.6	1100.9	1811.2	3026.1	4066.6	4494.3	4754.5	3025.1
60°	216.3	211.4	248.4	300.0	450.1	834.9	1655.3	2529.2	2975.4	3322.3	2082.0
62.5°	155.9	153.9	172.4	191.0	237.7	363.4	695.6	1019.1	1270.4	1534.4	932.4
65°	125.7	130.5	143.2	153.0	175.4	201.7	245.5	283.5	347.8	360.5	205.5
67.5°	102.3	106.2	117.9	128.6	132.5	109.2	113.0	99.4	99.4	88.6	71.1
70°	75.0	76.0	89.7	102.3	81.8	43.8	77.0	77.0	69.1	66.2	60.4
72.5°	55.5	56.5	67.3	63.3	32.2	27.2	56.5	62.3	56.5	53.6	48.7
75°	41.0	41.9	35.1	14.6	13.6	17.5	33.1	42.8	41.0	39.9	37.0
77.5°	7.8	5.9	4.9	6.8	9.7	14.6	21.5	26.3	27.2	29.2	27.2
80°	0.9	0.9	2.9	5.9	10.7	15.6	22.4	25.4	26.3	27.2	25.4
82.5°	0.0	0.9	2.9	5.9	10.7	14.6	19.5	22.4	24.4	25.4	24.4
85°	0.0	0.9	2.0	4.9	8.8	10.7	9.7	6.8	5.9	6.8	4.9
87.5°	0.0	0.0	0.9	0.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8	613.8
2.5°	621.6	617.7	604.1	589.4	576.8	582.6	576.8	571.9	573.9	571.9	569.9
5°	655.7	638.1	608.9	596.3	585.5	584.6	581.6	580.7	581.6	581.6	572.8
7.5°	687.9	659.6	628.4	614.7	602.1	603.1	596.3	596.3	595.3	590.4	588.4
10°	736.6	698.5	658.6	634.2	618.6	615.8	608.9	602.1	602.1	602.1	592.3
12.5°	790.1	742.4	687.9	659.6	641.0	626.5	615.8	613.8	603.1	601.1	596.3
15°	836.9	776.5	707.3	668.4	645.0	625.5	608.9	598.2	593.4	590.4	586.5
17.5°	882.7	805.7	718.0	668.4	643.0	620.6	603.1	593.4	581.6	583.6	575.8
20°	944.1	836.9	721.0	655.7	624.5	603.1	579.7	574.8	568.0	562.1	564.1
22.5°	1003.5	859.3	712.2	640.1	595.3	569.9	558.3	552.4	549.5	544.7	537.8
25°	1057.0	883.7	698.5	611.8	564.1	545.6	534.9	533.9	527.1	527.1	514.4
27.5°	1111.6	892.5	675.2	578.7	536.8	526.1	521.2	519.3	516.4	509.6	500.8
30°	1174.0	895.4	641.0	544.7	512.5	500.8	507.6	512.5	499.8	487.1	491.0
32.5°	1225.6	888.5	600.2	512.5	494.9	489.1	502.7	507.6	493.0	479.4	472.5
35°	1288.0	871.9	560.2	487.1	477.4	489.1	500.8	500.8	471.5	455.0	451.1
37.5°	1382.5	853.5	523.2	465.7	458.9	483.3	498.8	488.1	442.3	421.9	417.0
40°	1483.8	841.8	487.1	444.3	449.1	473.5	482.2	449.1	402.4	389.7	385.8
42.5°	1630.9	818.4	455.0	425.7	440.4	459.9	459.9	400.4	382.9	376.1	375.1
45°	1814.1	801.8	426.7	410.1	427.7	432.6	417.0	375.1	362.5	360.5	361.4
47.5°	1903.7	769.7	397.5	391.7	404.3	405.3	364.4	354.6	343.9	341.0	339.0
50°	1890.1	712.2	359.5	367.3	384.8	375.1	332.2	334.2	324.4	323.5	318.6
52.5°	1794.6	621.6	321.5	340.1	359.5	331.3	305.9	304.0	304.0	291.3	286.4
55°	1591.0	500.8	275.7	299.1	322.5	278.7	271.9	269.9	265.0	253.3	250.4
57.5°	1259.8	367.3	207.5	232.9	273.7	236.8	235.8	227.0	214.3	205.5	205.5
60°	749.3	211.4	130.5	142.3	181.2	191.9	213.4	209.5	188.0	174.4	170.5
62.5°	341.9	109.2	82.8	84.8	97.4	124.7	167.6	193.9	163.6	140.3	138.4
65°	114.9	80.9	68.2	65.3	67.3	75.0	100.4	137.3	130.5	108.1	104.2
67.5°	70.2	72.1	64.3	59.4	59.4	58.5	57.5	62.3	77.0	75.0	76.0
70°	60.4	66.2	59.4	53.6	51.6	48.7	41.0	34.1	29.2	34.1	36.0
72.5°	48.7	52.6	50.7	45.8	41.0	37.0	29.2	22.4	16.6	14.6	14.6
75°	36.0	39.0	41.0	35.1	31.2	26.3	21.5	14.6	8.8	5.9	5.9
77.5°	26.3	29.2	30.2	27.2	23.4	18.5	13.6	9.7	4.9	2.0	2.0
80°	22.4	26.3	29.2	27.2	24.4	17.5	12.7	6.8	3.9	0.9	0.9
82.5°	21.5	26.3	29.2	26.3	23.4	16.6	12.7	7.8	2.9	0.9	0.9
85°	4.9	6.8	8.8	10.7	12.7	12.7	9.7	5.9	2.9	0.9	0.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.9	0.9	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)