

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: P647291

Luminaire Tested: **GALN-SA2D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647291
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-SA2D-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 8056.3 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

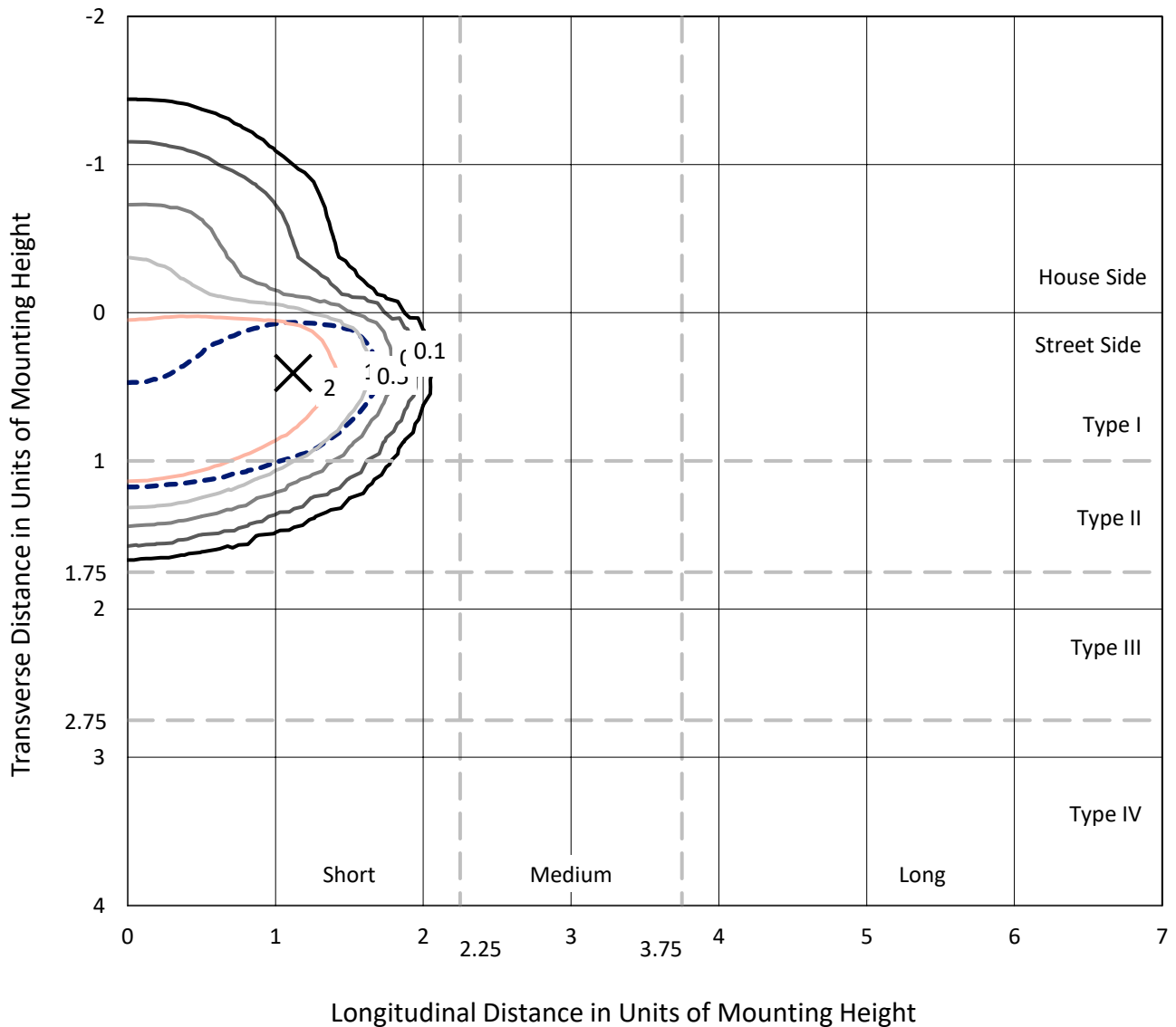
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

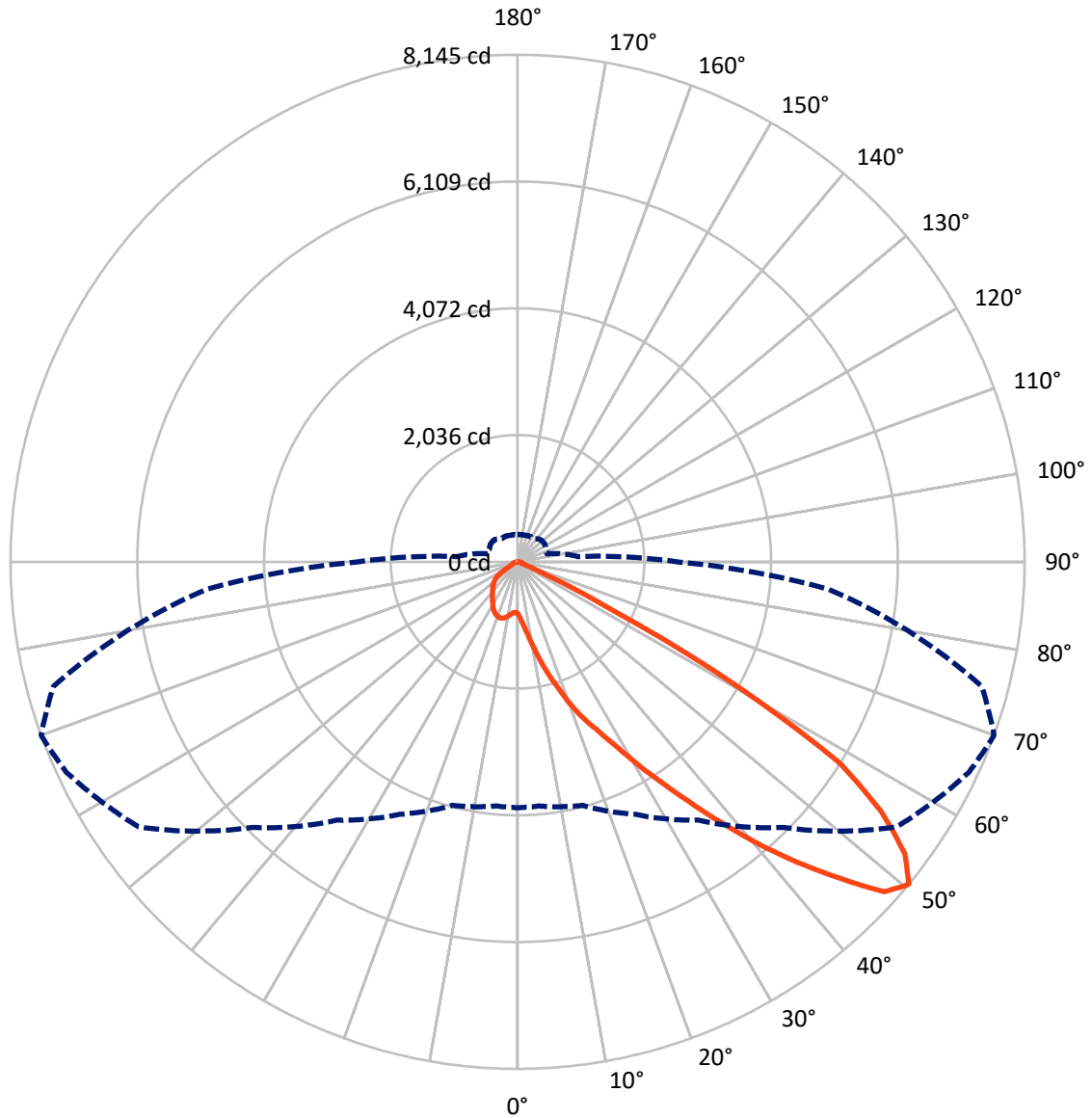
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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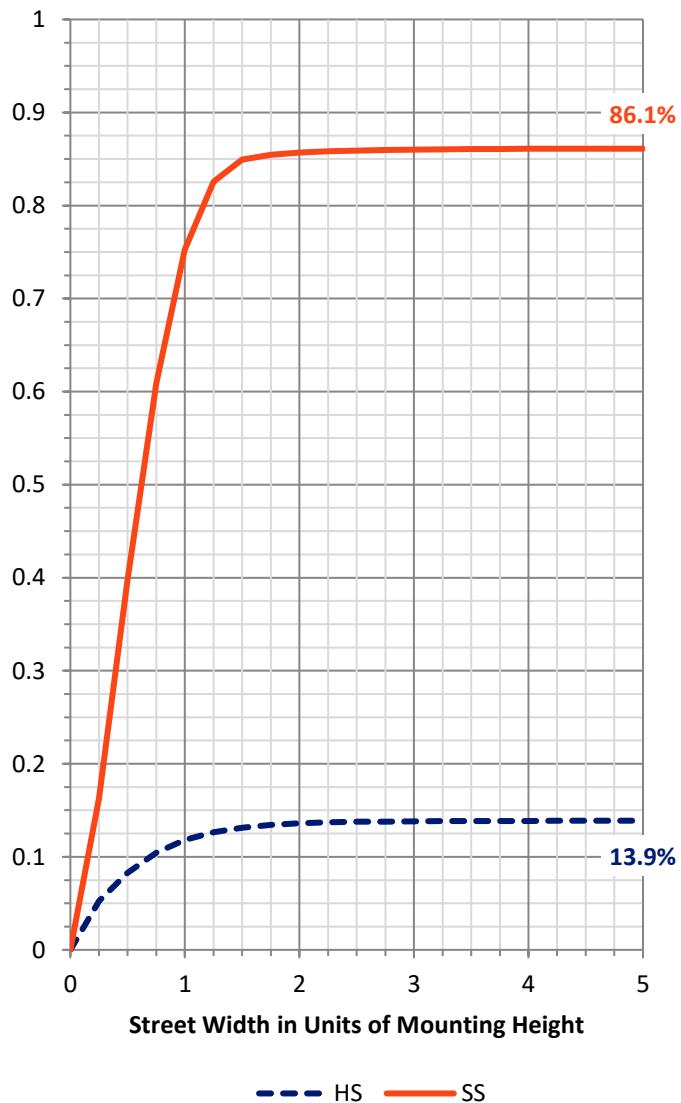
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.1	0.0	1125.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6931.2	0.0	6931.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	8056.3	0.0	8056.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.3
10°-20°	469.4	5.8
20°-30°	984.7	12.2
30°-40°	1697.3	21.1
40°-50°	2480.5	30.8
50°-60°	1931.9	24.0
60°-70°	327.3	4.1
70°-80°	45.0	0.6
80°-90°	11.7	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°	8056.3	100.0
0°-180°	8056.3	100.0

Coefficient of Utilization

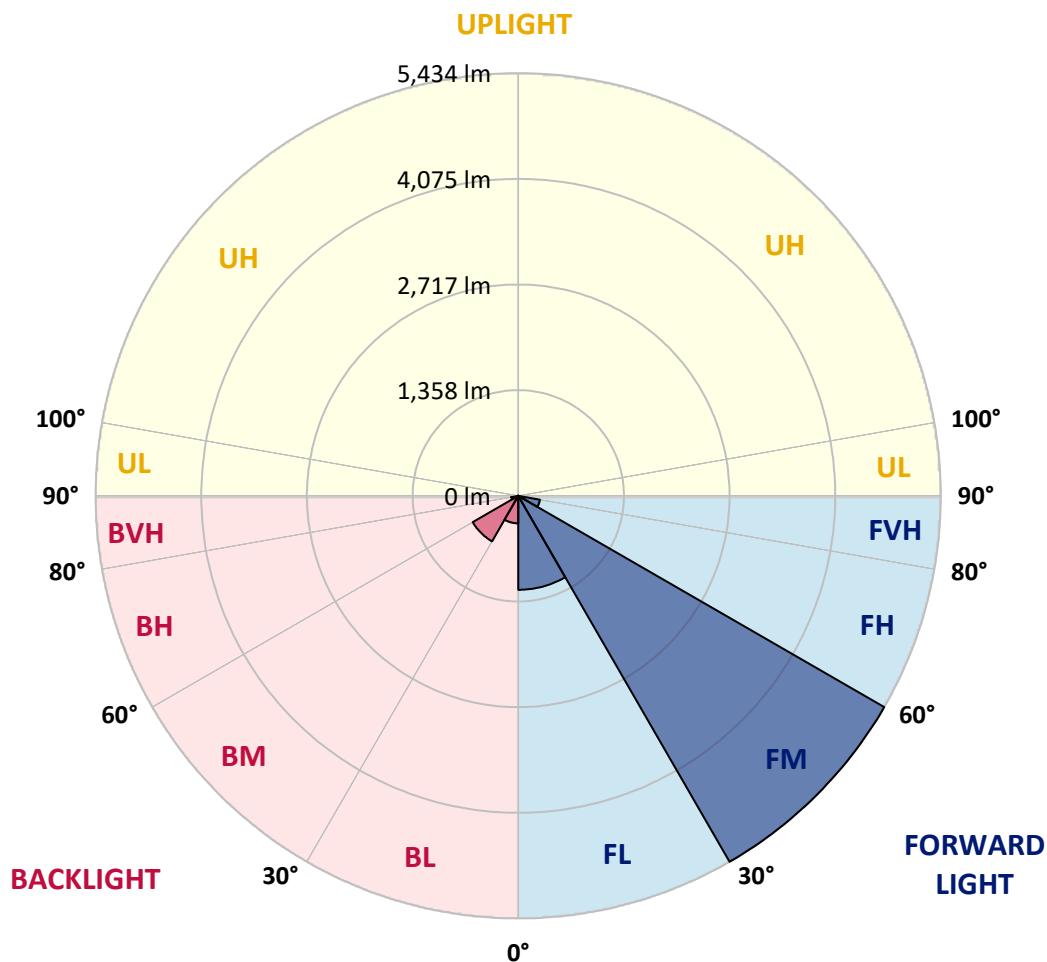


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.5	15.0			
FM (30°-60°)	5433.8	67.4			
FH (60°-80°)	283.4	3.5			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	354.0	4.4	B1/500		
BM (30°-60°)	675.9	8.4	B1/1000		
BH (60°-80°)	88.9	1.1	B0/110		G0/110
BVH (80°-90°)	6.3	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°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
2.5°	1092.8	1084.8	1067.6	1035.8	1022.6	990.8	972.3	936.5	913.9	888.8	861.0
5°	1539.1	1498.1	1472.9	1437.1	1332.5	1267.6	1160.3	1069.0	1026.5	980.2	916.6
7.5°	2000.1	1973.6	1939.2	1862.4	1790.8	1655.7	1471.6	1270.3	1184.1	1104.7	978.8
10°	2381.6	2307.3	2303.4	2246.4	2168.3	2006.7	1785.5	1535.1	1381.5	1264.9	1067.6
12.5°	2647.8	2580.2	2610.7	2604.1	2531.2	2382.9	2127.3	1796.1	1635.8	1454.3	1159.0
15°	2890.2	2862.3	2853.1	2845.2	2816.0	2706.0	2476.9	2114.0	1882.2	1663.6	1262.3
17.5°	3127.3	3055.7	3090.2	3096.8	3094.2	2994.8	2780.3	2416.0	2143.1	1884.8	1371.0
20°	3337.9	3344.5	3298.2	3288.9	3280.9	3276.9	3067.7	2715.4	2463.7	2116.7	1512.7
22.5°	3608.1	3561.7	3602.8	3576.3	3524.7	3492.9	3332.6	2980.3	2741.8	2396.1	1657.1
25°	3927.3	3964.4	3867.7	3857.1	3800.1	3690.2	3545.8	3276.9	3009.4	2655.8	1813.3
27.5°	4320.8	4255.8	4230.6	4172.4	4069.0	4022.7	3853.1	3582.9	3332.6	2928.6	1964.3
30°	4658.5	4641.2	4515.4	4446.6	4356.5	4355.1	4118.0	3997.5	3753.8	3356.4	2172.3
32.5°	4934.0	4858.5	4812.2	4764.5	4691.6	4711.5	4511.5	4447.9	4202.8	3753.8	2417.4
35°	5118.1	5063.8	5035.9	4963.1	4941.9	5030.7	4947.2	4920.8	4719.4	4312.8	2704.7
37.5°	5176.4	5193.6	5188.3	5096.9	5142.0	5381.7	5489.0	5420.1	5314.1	4902.2	3016.0
40°	5228.0	5240.0	5213.4	5320.7	5449.2	5722.1	6110.2	5996.3	5956.5	5499.6	3449.1
42.5°	5257.1	5247.9	5247.9	5433.3	5628.0	6176.5	6710.2	6634.8	6604.3	6135.4	3949.8
45°	5131.3	5041.3	5138.0	5389.6	5781.7	6400.2	7189.7	7294.3	7250.7	6891.7	4535.3
47.5°	4661.1	4716.8	4771.1	5107.5	5594.9	6331.4	7483.8	7840.1	7920.9	7527.4	4919.4
50°	3949.8	3937.9	4050.5	4474.4	5066.5	6034.7	7426.8	7997.7	8144.7	7718.2	5000.2
52.5°	2873.0	2960.4	3082.3	3503.5	4205.5	5266.5	6691.7	7591.0	7787.1	7483.8	4947.2
55°	1673.0	1576.3	1850.4	2206.7	2869.0	3972.4	5657.2	6728.8	7091.7	7057.3	4679.7
57.5°	670.2	649.0	743.1	1001.4	1496.8	2462.4	4114.1	5528.7	6110.2	6463.8	4112.8
60°	294.0	287.4	337.8	407.9	611.9	1135.1	2250.4	3438.5	4045.2	4516.7	2830.6
62.5°	212.0	209.3	234.4	259.6	323.2	494.1	945.7	1385.5	1727.2	2086.1	1267.6
65°	170.9	177.5	194.7	208.0	238.4	274.2	333.8	385.5	472.9	490.1	279.5
67.5°	139.1	144.4	160.3	174.8	180.2	148.4	153.6	135.1	135.1	120.5	96.7
70°	102.0	103.3	121.8	139.1	111.3	59.6	104.6	104.6	94.0	90.0	82.1
72.5°	75.5	76.8	91.4	86.1	43.7	37.1	76.8	84.8	76.8	72.8	66.2
75°	55.6	56.9	47.7	19.9	18.6	23.8	45.0	58.3	55.6	54.3	50.3
77.5°	10.6	7.9	6.7	9.2	13.2	19.9	29.1	35.8	37.1	39.7	37.1
80°	1.3	1.3	4.0	7.9	14.6	21.2	30.5	34.5	35.8	37.1	34.5
82.5°	0.0	1.3	4.0	7.9	14.6	19.9	26.5	30.5	33.1	34.5	33.1
85°	0.0	1.3	2.7	6.7	11.9	14.6	13.2	9.2	7.9	9.2	6.7
87.5°	0.0	0.0	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
2.5°	845.1	839.8	821.2	801.3	784.2	792.1	784.2	777.5	780.2	777.5	774.9
5°	891.4	867.6	827.9	810.6	796.1	794.7	790.8	789.4	790.8	790.8	778.9
7.5°	935.1	896.7	854.3	835.8	818.5	819.9	810.6	810.6	809.3	802.7	800.1
10°	1001.4	949.7	895.4	862.3	841.1	837.1	827.9	818.5	818.5	818.5	805.3
12.5°	1074.2	1009.3	935.1	896.7	871.6	851.7	837.1	834.4	819.9	817.2	810.6
15°	1137.8	1055.6	961.6	908.7	876.9	850.3	827.9	813.3	806.6	802.7	797.4
17.5°	1200.0	1095.4	976.2	908.7	874.2	843.8	819.9	806.6	790.8	793.4	782.8
20°	1283.5	1137.8	980.2	891.4	849.0	819.9	788.1	781.5	772.2	764.3	766.9
22.5°	1364.3	1168.2	968.3	870.2	809.3	774.9	759.0	751.1	747.1	740.4	731.2
25°	1437.1	1201.4	949.7	831.9	766.9	741.7	727.2	725.8	716.6	716.6	699.4
27.5°	1511.3	1213.3	917.9	786.8	729.8	715.3	708.6	706.0	702.0	692.7	680.8
30°	1596.1	1217.3	871.6	740.4	696.7	680.8	690.1	696.7	679.5	662.3	667.6
32.5°	1666.3	1208.0	816.0	696.7	672.9	664.9	683.5	690.1	670.2	651.7	642.4
35°	1751.1	1185.5	761.6	662.3	649.0	664.9	680.8	680.8	641.1	618.6	613.2
37.5°	1879.5	1160.3	711.3	633.1	623.9	657.0	678.2	663.6	601.3	573.5	566.9
40°	2017.3	1144.4	662.3	604.0	610.6	643.7	655.7	610.6	547.1	529.9	524.5
42.5°	2217.3	1112.6	618.6	578.8	598.7	625.2	625.2	544.4	520.5	511.3	510.0
45°	2466.3	1090.1	580.1	557.7	581.5	588.1	566.9	510.0	492.7	490.1	491.4
47.5°	2588.2	1046.4	540.4	532.4	549.7	551.0	495.4	482.2	467.6	463.6	461.0
50°	2569.6	968.3	488.7	499.4	523.2	510.0	451.7	454.3	441.1	439.7	433.2
52.5°	2439.8	845.1	437.1	462.3	488.7	450.4	415.9	413.3	413.3	396.0	389.4
55°	2163.0	680.8	374.8	406.6	438.4	378.8	369.6	366.9	360.3	344.4	340.4
57.5°	1712.7	499.4	282.1	316.6	372.2	321.9	320.6	308.7	291.4	279.5	279.5
60°	1018.6	287.4	177.5	193.4	246.3	261.0	290.1	284.8	255.6	237.1	231.8
62.5°	464.9	148.4	112.6	115.3	132.5	169.5	227.9	263.6	222.5	190.7	188.1
65°	156.3	109.9	92.7	88.7	91.4	102.0	136.4	186.7	177.5	147.0	141.7
67.5°	95.4	98.0	87.4	80.8	80.8	79.5	78.1	84.8	104.6	102.0	103.3
70°	82.1	90.0	80.8	72.8	70.2	66.2	55.6	46.4	39.7	46.4	49.0
72.5°	66.2	71.5	68.9	62.2	55.6	50.3	39.7	30.5	22.6	19.9	19.9
75°	49.0	53.0	55.6	47.7	42.4	35.8	29.1	19.9	11.9	7.9	7.9
77.5°	35.8	39.7	41.0	37.1	31.8	25.1	18.6	13.2	6.7	2.7	2.7
80°	30.5	35.8	39.7	37.1	33.1	23.8	17.2	9.2	5.3	1.3	1.3
82.5°	29.1	35.8	39.7	35.8	31.8	22.6	17.2	10.6	4.0	1.3	1.3
85°	6.7	9.2	11.9	14.6	17.2	17.2	13.2	7.9	4.0	1.3	1.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	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)