

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: P648336

Luminaire Tested: **GALN-SA3B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648336
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-SA3B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 8796.2 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

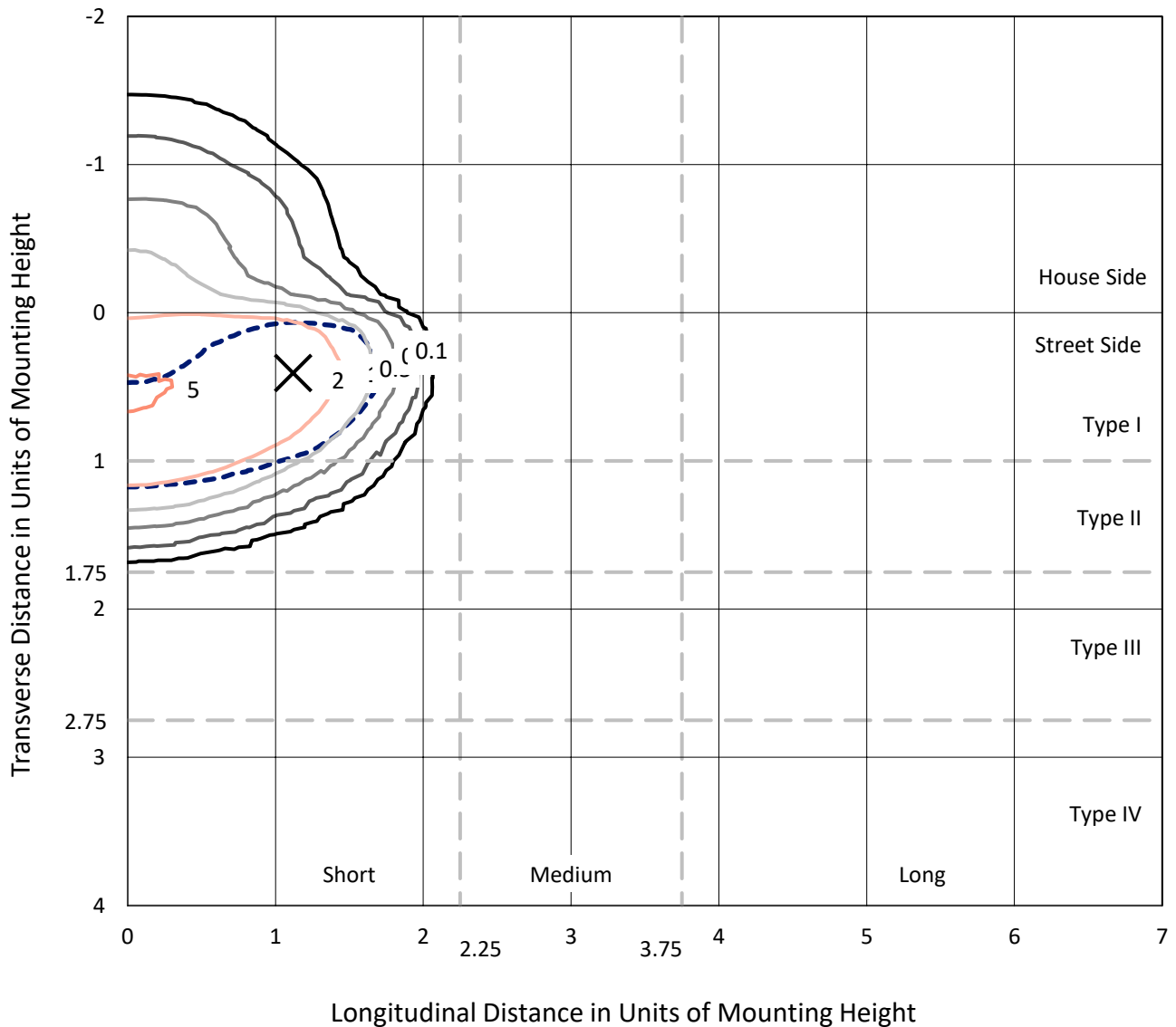
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

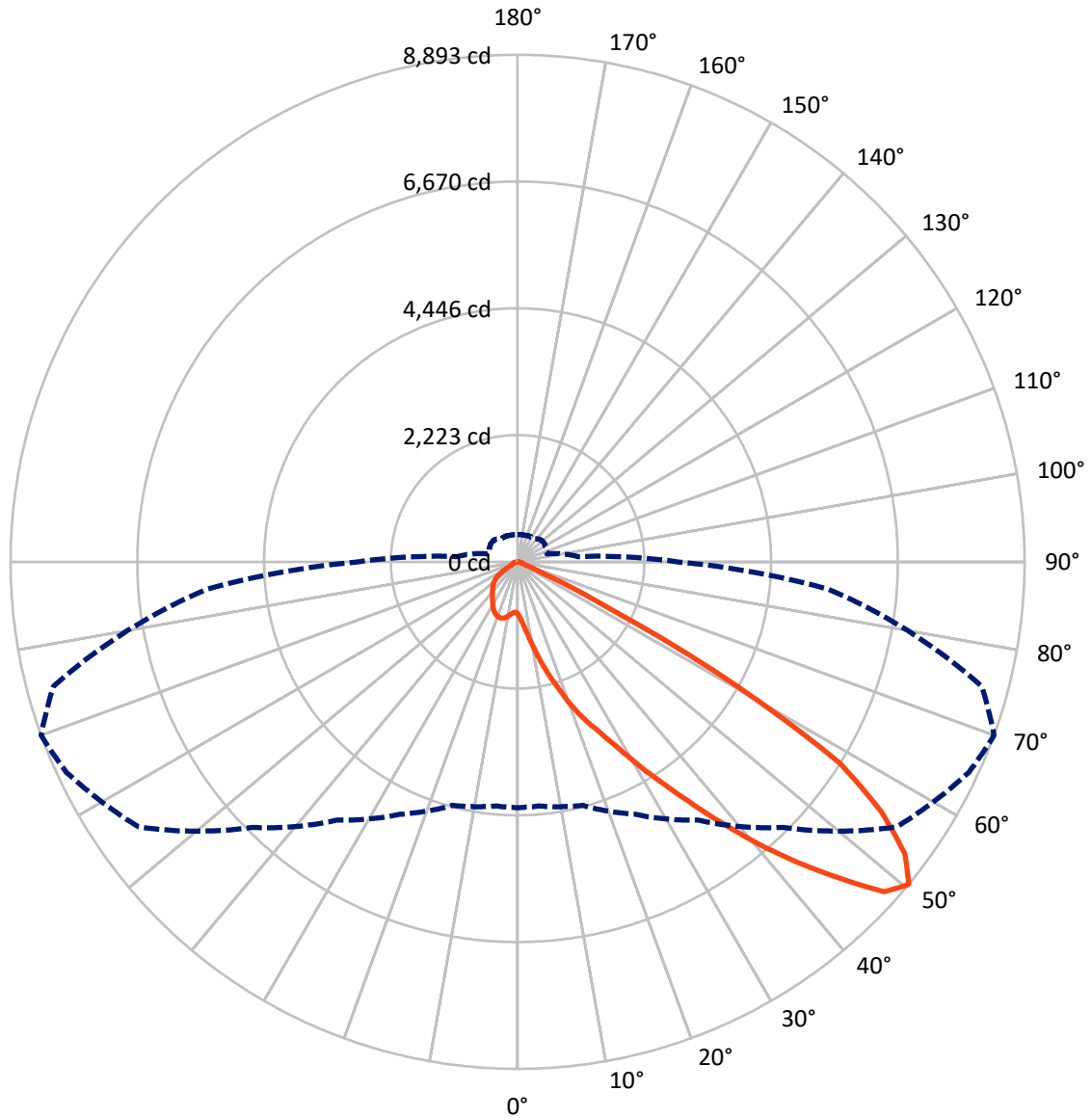
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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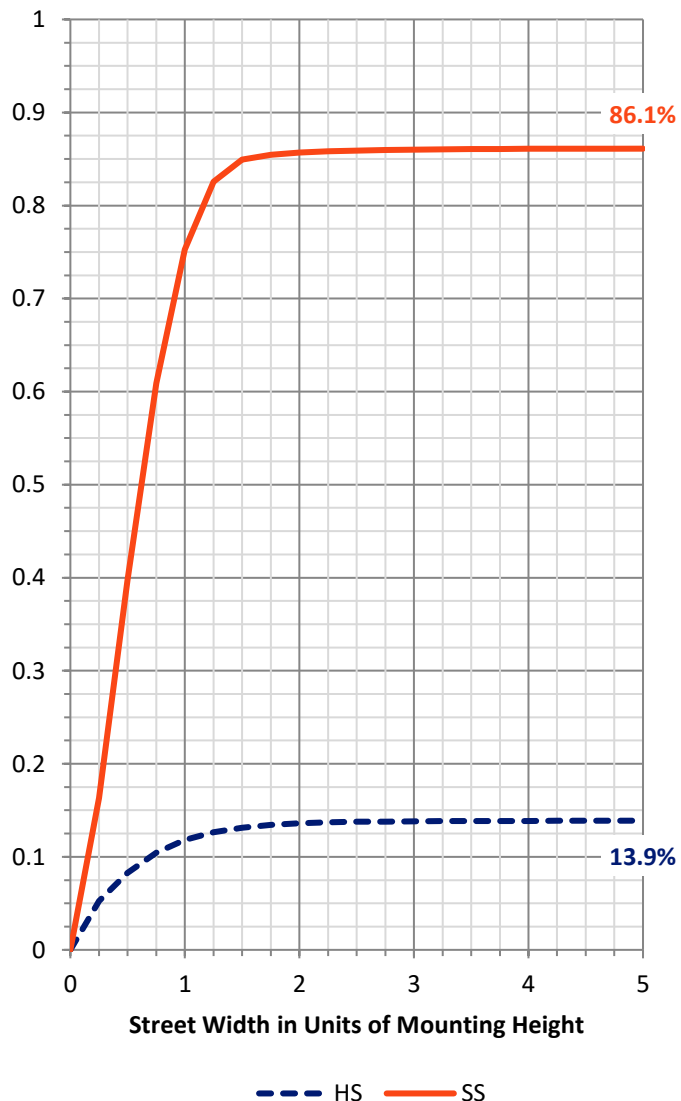
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.5	0.0	1228.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7567.8	0.0	7567.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	8796.2	0.0	8796.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.3
10°-20°	512.5	5.8
20°-30°	1075.1	12.2
30°-40°	1853.2	21.1
40°-50°	2708.4	30.8
50°-60°	2109.4	24.0
60°-70°	357.4	4.1
70°-80°	49.1	0.6
80°-90°	12.7	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°	8796.2	100.0
0°-180°	8796.2	100.0

Coefficient of Utilization

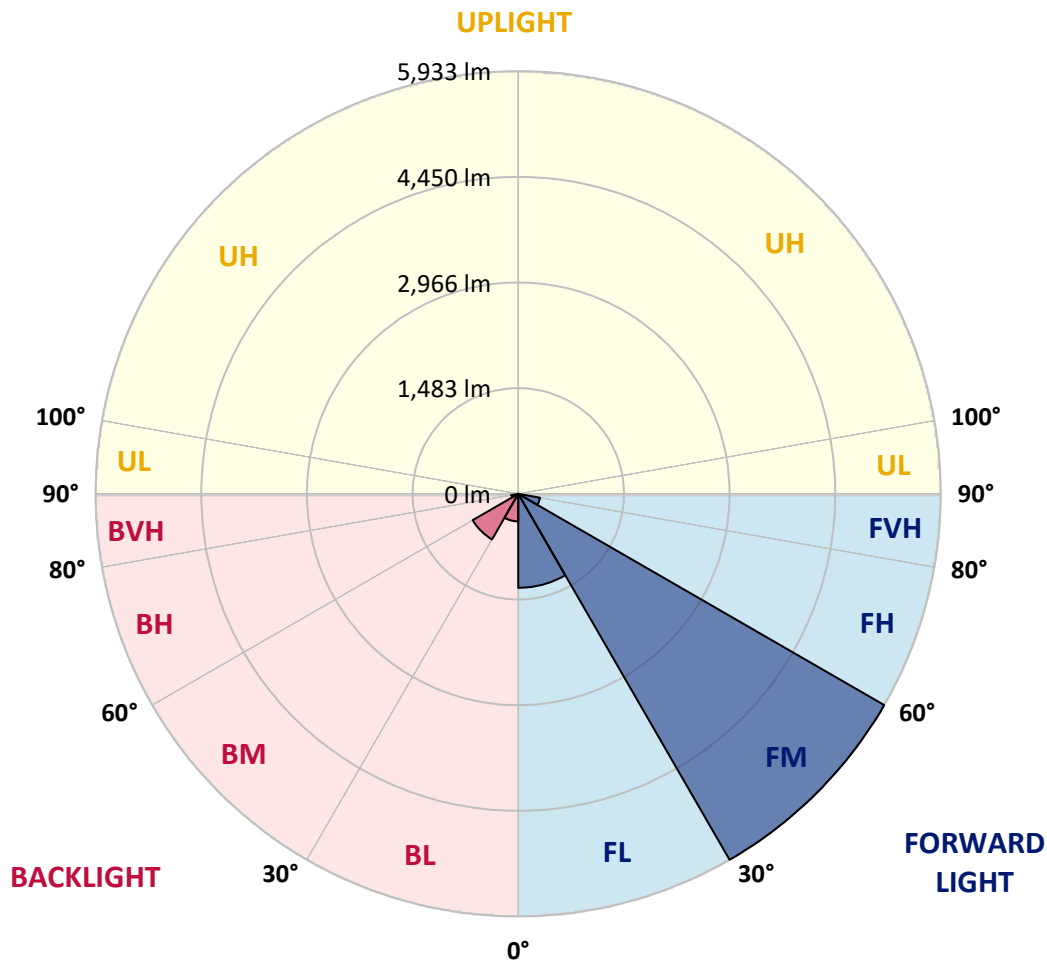


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.5	15.0			
FM (30°-60°)	5932.9	67.4			
FH (60°-80°)	309.5	3.5			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	386.6	4.4	B1/500		
BM (30°-60°)	738.0	8.4	B1/1000		
BH (60°-80°)	97.0	1.1	B0/110		G0/110
BVH (80°-90°)	6.8	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°	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1
2.5°	1193.1	1184.4	1165.7	1131.0	1116.5	1081.8	1061.5	1022.4	997.9	970.4	940.1
5°	1680.5	1635.7	1608.2	1569.1	1454.9	1384.0	1266.9	1167.1	1120.8	1070.2	1000.8
7.5°	2183.8	2154.9	2117.2	2033.4	1955.3	1807.8	1606.7	1386.9	1292.9	1206.1	1068.7
10°	2600.3	2519.3	2515.0	2452.7	2367.5	2191.0	1949.5	1676.2	1508.4	1381.1	1165.7
12.5°	2891.0	2817.2	2850.5	2843.2	2763.8	2601.8	2322.6	1961.1	1786.1	1587.9	1265.4
15°	3155.6	3125.3	3115.2	3106.5	3074.7	2954.7	2704.4	2308.1	2055.1	1816.5	1378.2
17.5°	3414.5	3336.4	3374.0	3381.2	3378.3	3269.9	3035.6	2637.9	2340.0	2058.0	1496.9
20°	3644.5	3651.7	3601.1	3590.9	3582.3	3577.9	3349.4	2964.8	2690.0	2311.0	1651.6
22.5°	3939.5	3888.8	3933.7	3904.7	3848.4	3813.7	3638.7	3254.0	2993.6	2616.2	1809.2
25°	4288.0	4328.5	4223.0	4211.4	4149.2	4029.2	3871.5	3577.9	3285.8	2899.7	1979.9
27.5°	4717.6	4646.7	4619.2	4555.6	4442.7	4392.2	4207.1	3912.0	3638.7	3197.6	2144.7
30°	5086.4	5067.6	4930.2	4854.9	4756.6	4755.2	4496.3	4364.7	4098.5	3664.7	2371.8
32.5°	5387.1	5304.7	5254.1	5202.0	5122.5	5144.2	4925.8	4856.4	4588.8	4098.5	2639.3
35°	5588.2	5528.8	5498.5	5419.0	5395.8	5492.7	5401.6	5372.7	5152.8	4708.9	2953.2
37.5°	5651.8	5670.6	5664.8	5565.0	5614.2	5875.9	5993.1	5917.9	5802.2	5352.4	3293.1
40°	5708.2	5721.2	5692.3	5809.5	5949.7	6247.6	6671.4	6547.0	6503.6	6004.7	3765.9
42.5°	5740.0	5729.9	5729.9	5932.4	6145.0	6743.7	7326.5	7244.1	7210.8	6698.9	4312.6
45°	5602.6	5504.3	5609.9	5884.6	6312.7	6988.1	7850.0	7964.3	7916.6	7524.6	4951.8
47.5°	5089.3	5149.9	5209.3	5576.6	6108.8	6912.9	8171.2	8560.1	8648.4	8218.8	5371.2
50°	4312.6	4299.6	4422.5	4885.3	5531.7	6588.9	8108.9	8732.3	8892.8	8427.1	5459.5
52.5°	3136.9	3232.3	3365.3	3825.3	4591.7	5750.1	7306.3	8288.3	8502.3	8171.2	5401.6
55°	1826.6	1721.0	2020.4	2409.4	3132.5	4337.2	6176.8	7346.8	7743.0	7705.4	5109.5
57.5°	731.8	708.6	811.3	1093.3	1634.2	2688.5	4491.9	6036.5	6671.4	7057.5	4490.5
60°	321.0	313.8	368.8	445.4	668.1	1239.4	2457.1	3754.4	4416.7	4931.6	3090.6
62.5°	231.4	228.5	256.0	283.4	352.9	539.4	1032.6	1512.8	1885.9	2277.8	1384.0
65°	186.6	193.8	212.6	227.1	260.3	299.3	364.4	420.9	516.3	535.1	305.1
67.5°	151.8	157.6	175.0	190.9	196.7	162.0	167.8	147.5	147.5	131.6	105.5
70°	111.3	112.8	133.0	151.8	121.4	65.1	114.2	114.2	102.7	98.3	89.7
72.5°	82.4	83.9	99.8	94.0	47.8	40.5	83.9	92.6	83.9	79.6	72.3
75°	60.8	62.2	52.1	21.7	20.3	26.0	49.2	63.7	60.8	59.3	55.0
77.5°	11.6	8.7	7.2	10.1	14.5	21.7	31.8	39.1	40.5	43.4	40.5
80°	1.4	1.4	4.3	8.7	15.9	23.2	33.3	37.6	39.1	40.5	37.6
82.5°	0.0	1.4	4.3	8.7	15.9	21.7	28.9	33.3	36.2	37.6	36.2
85°	0.0	1.4	2.9	7.2	13.0	15.9	14.5	10.1	8.7	10.1	7.2
87.5°	0.0	0.0	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1	911.1
2.5°	922.7	916.9	896.7	874.9	856.1	864.8	856.1	848.9	851.8	848.9	846.0
5°	973.3	947.3	903.9	885.1	869.2	867.7	863.4	861.9	863.4	863.4	850.3
7.5°	1021.0	979.1	932.8	912.6	893.8	895.2	885.1	885.1	883.6	876.4	873.5
10°	1093.3	1036.9	977.7	941.5	918.4	914.0	903.9	893.8	893.8	893.8	879.3
12.5°	1172.9	1102.0	1021.0	979.1	951.6	929.9	914.0	911.1	895.2	892.3	885.1
15°	1242.3	1152.7	1049.9	992.1	957.4	928.5	903.9	888.0	880.7	876.4	870.6
17.5°	1310.3	1196.0	1065.9	992.1	954.5	921.3	895.2	880.7	863.4	866.3	854.7
20°	1401.4	1242.3	1070.2	973.3	927.0	895.2	860.5	853.2	843.1	834.4	837.3
22.5°	1489.6	1275.6	1057.2	950.2	883.6	846.0	828.6	820.0	815.7	808.4	798.3
25°	1569.1	1311.7	1036.9	908.2	837.3	809.9	794.0	792.6	782.4	782.4	763.6
27.5°	1650.1	1324.8	1002.2	859.0	796.9	781.0	773.8	770.9	766.5	756.4	743.4
30°	1742.7	1329.1	951.6	808.4	760.7	743.4	753.5	760.7	741.9	723.1	728.9
32.5°	1819.3	1319.0	890.9	760.7	734.7	726.0	746.3	753.5	731.8	711.5	701.4
35°	1911.9	1294.4	831.5	723.1	708.6	726.0	743.4	743.4	700.0	675.4	669.6
37.5°	2052.2	1266.9	776.6	691.3	681.1	717.3	740.5	724.6	656.5	626.2	619.0
40°	2202.6	1249.5	723.1	659.4	666.7	702.9	715.9	666.7	597.3	578.5	572.7
42.5°	2421.0	1214.8	675.4	632.0	653.7	682.6	682.6	594.4	568.4	558.2	556.8
45°	2692.8	1190.2	633.4	608.9	634.9	642.1	619.0	556.8	538.0	535.1	536.5
47.5°	2825.9	1142.5	590.1	581.4	600.2	601.7	540.9	526.4	510.5	506.2	503.3
50°	2805.6	1057.2	533.6	545.2	571.3	556.8	493.1	496.0	481.6	480.1	472.9
52.5°	2663.9	922.7	477.2	504.7	533.6	491.7	454.1	451.2	451.2	432.5	425.2
55°	2361.7	743.4	409.3	444.0	478.7	413.6	403.5	400.6	393.4	376.0	371.7
57.5°	1870.0	545.2	308.0	345.6	406.4	351.4	350.0	337.0	318.1	305.1	305.1
60°	1112.2	313.8	193.8	211.2	269.0	284.9	316.7	310.9	279.1	258.9	253.1
62.5°	507.6	162.0	122.9	125.8	144.6	185.1	248.8	287.8	243.0	208.3	205.4
65°	170.6	120.0	101.2	96.9	99.8	111.3	148.9	203.9	193.8	160.5	154.7
67.5°	104.1	107.0	95.4	88.2	88.2	86.8	85.3	92.6	114.2	111.3	112.8
70°	89.7	98.3	88.2	79.6	76.7	72.3	60.8	50.6	43.4	50.6	53.5
72.5°	72.3	78.1	75.2	68.0	60.8	55.0	43.4	33.3	24.6	21.7	21.7
75°	53.5	57.9	60.8	52.1	46.3	39.1	31.8	21.7	13.0	8.7	8.7
77.5°	39.1	43.4	44.9	40.5	34.7	27.5	20.3	14.5	7.2	2.9	2.9
80°	33.3	39.1	43.4	40.5	36.2	26.0	18.8	10.1	5.8	1.4	1.4
82.5°	31.8	39.1	43.4	39.1	34.7	24.6	18.8	11.6	4.3	1.4	1.4
85°	7.2	10.1	13.0	15.9	18.8	18.8	14.5	8.7	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	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)