

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: P647263

Luminaire Tested: **GALN-SA2D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10991.8 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

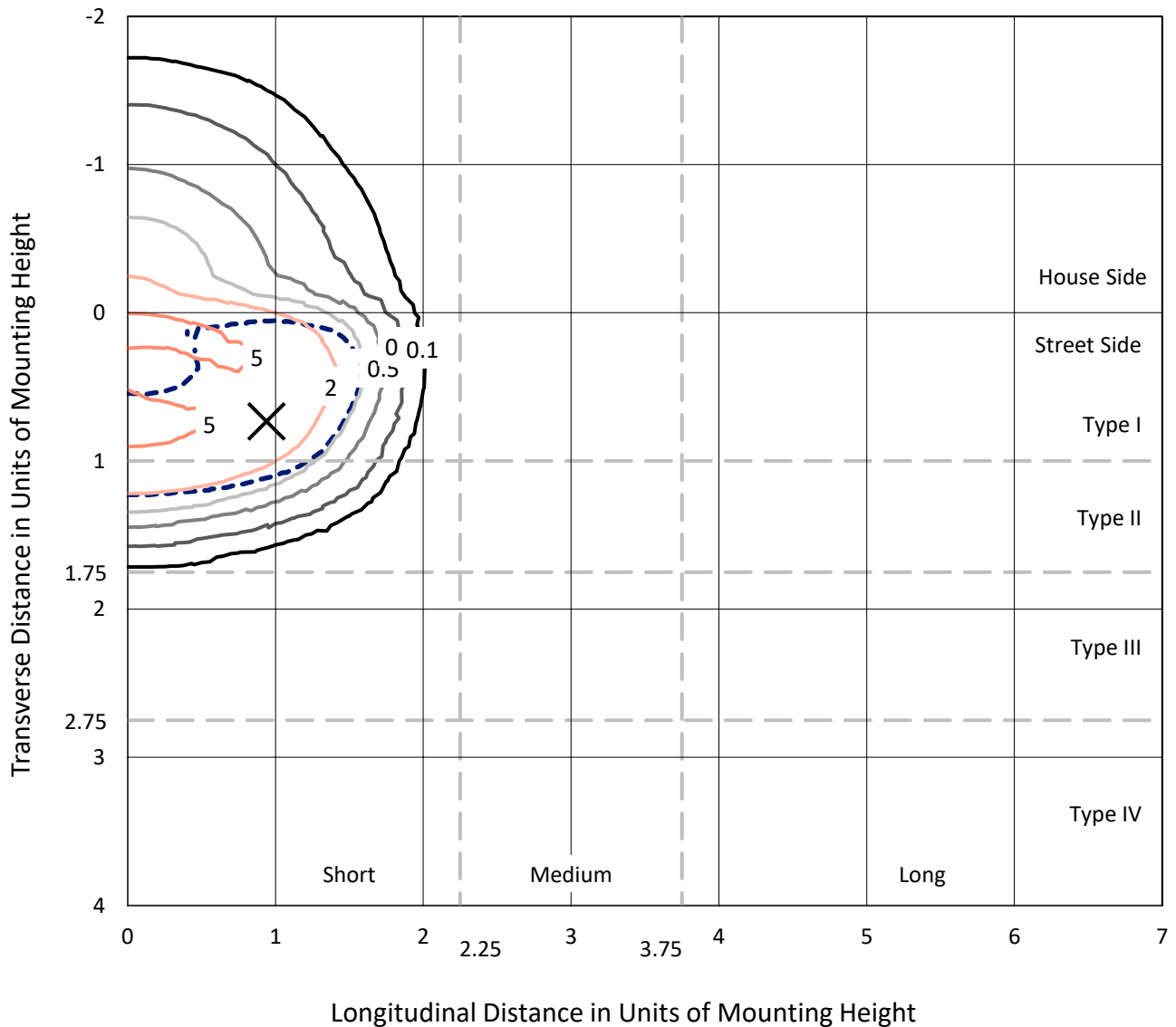
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

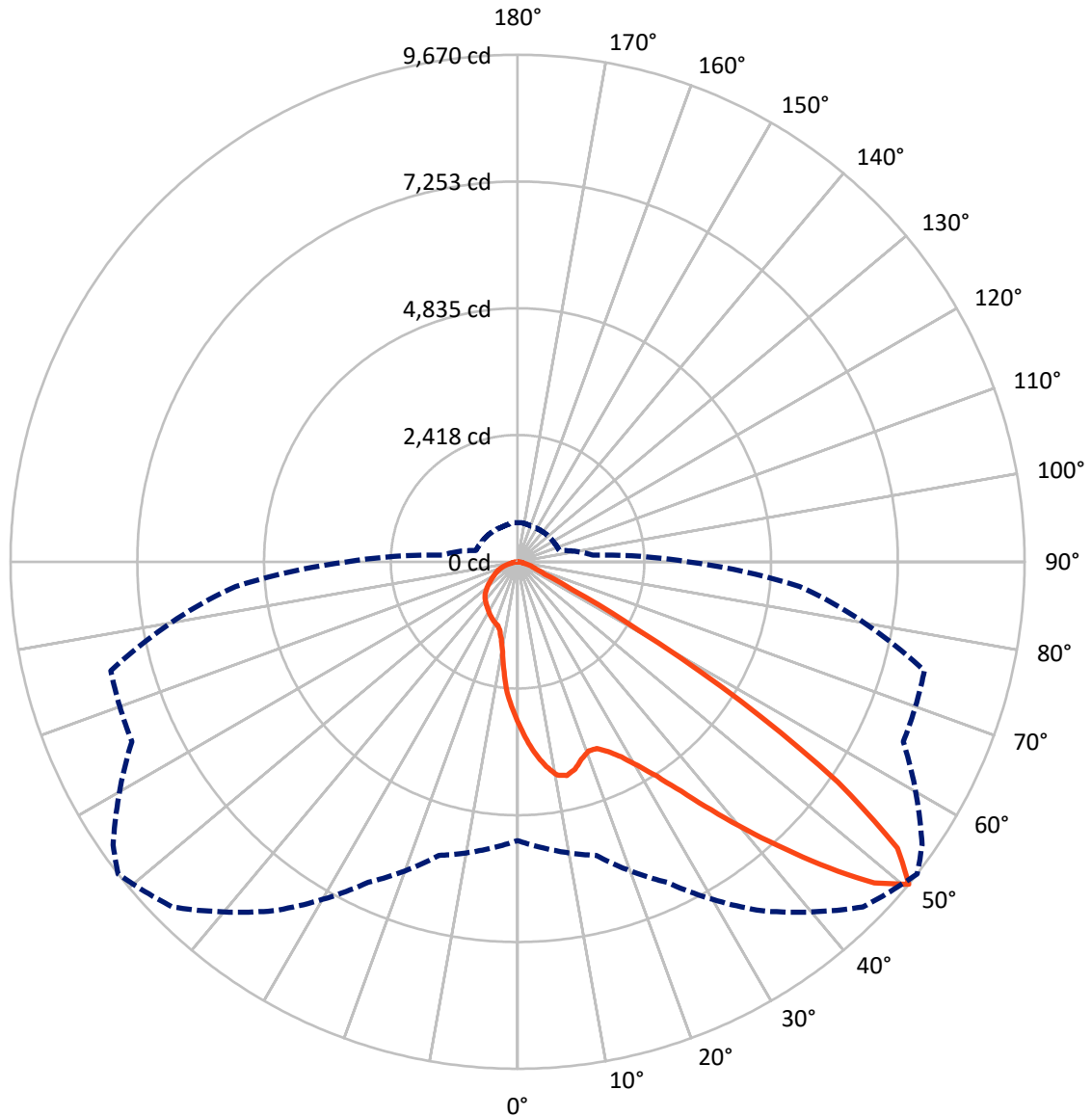
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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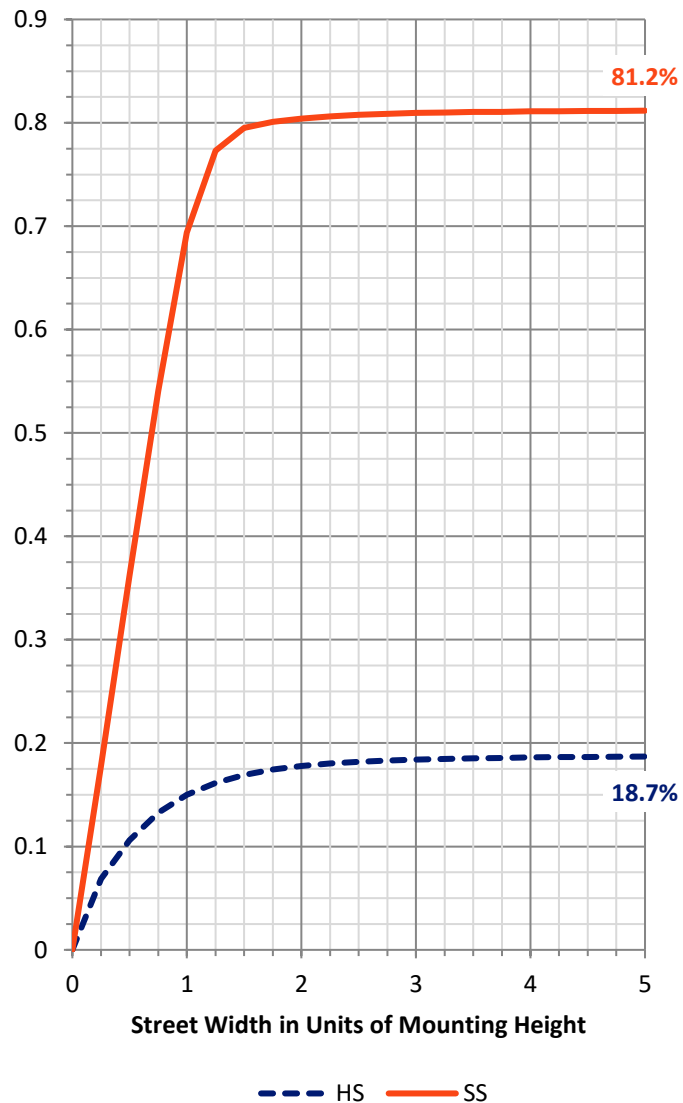
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2066.2	0.0	2066.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8925.6	0.0	8925.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	10991.8	0.0	10991.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	2.6
10°-20°	765.4	7.0
20°-30°	1289.3	11.7
30°-40°	2163.6	19.7
40°-50°	3309.8	30.1
50°-60°	2413.1	22.0
60°-70°	537.0	4.9
70°-80°	193.7	1.8
80°-90°	34.3	0.3
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°	10991.8	100.0
0°-180°	10991.8	100.0

Coefficient of Utilization

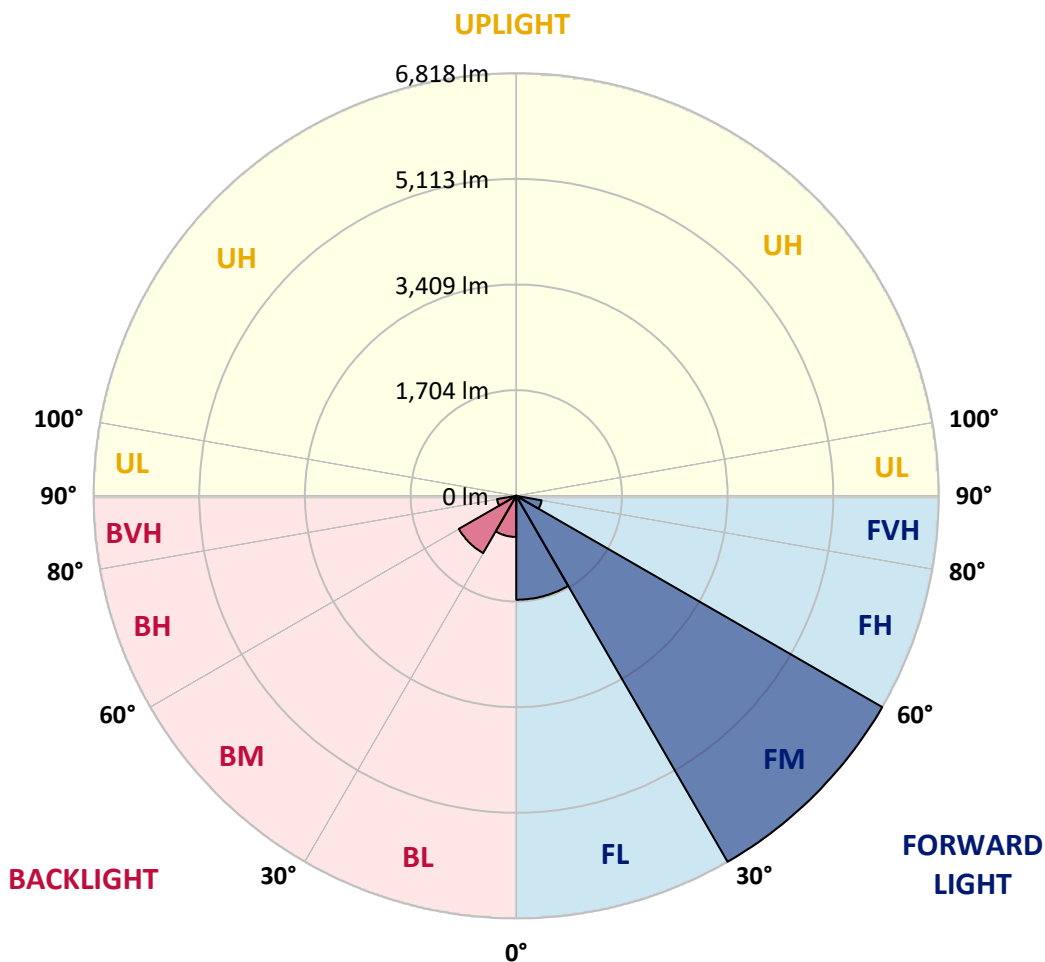


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.6	15.3			
FM (30°-60°)	6817.6	62.0			
FH (60°-80°)	415.9	3.8			G0/660
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	663.7	6.0	B2/1000		
BM (30°-60°)	1068.8	9.7	B2/2500		
BH (60°-80°)	314.8	2.9	B1/500		G1/500
BVH (80°-90°)	18.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4
2.5°	3648.2	3577.9	3585.9	3535.6	3481.2	3465.3	3409.7	3356.7	3316.9	3232.1	3154.0
5°	3987.3	3966.1	3934.3	3894.5	3853.5	3752.8	3695.8	3629.6	3483.9	3352.7	3222.9
7.5°	4036.3	4032.3	4049.5	4049.5	4064.1	4025.6	3944.8	3898.5	3743.5	3530.2	3289.1
10°	3691.8	3703.7	3787.2	3895.8	4046.9	4151.5	4138.2	4126.3	3956.8	3665.4	3367.3
12.5°	3417.6	3391.2	3440.2	3532.9	3759.4	4012.4	4183.3	4184.6	4140.9	3881.3	3424.3
15°	3262.7	3281.2	3294.5	3338.2	3509.0	3801.8	4102.5	4191.2	4383.3	4033.6	3514.3
17.5°	3362.0	3299.7	3297.1	3307.7	3395.1	3615.0	3952.8	4105.1	4515.8	4229.7	3625.6
20°	3491.8	3490.5	3453.4	3440.2	3438.9	3634.9	3854.8	4061.4	4586.0	4484.0	3738.2
22.5°	3719.6	3719.6	3658.7	3629.6	3567.3	3727.6	3868.0	4008.4	4702.5	4658.8	3792.5
25°	4101.2	4038.9	3934.3	3862.7	3827.0	3883.9	4008.4	4134.3	4804.6	4844.3	3905.1
27.5°	4453.5	4355.5	4303.8	4180.7	4133.0	4099.9	4213.8	4341.0	4923.8	5133.1	3966.1
30°	4853.6	4836.4	4743.6	4584.7	4466.8	4405.9	4510.5	4636.3	5142.4	5428.5	4106.4
32.5°	5568.9	5412.6	5286.7	5092.0	4899.9	4770.1	4873.5	4956.9	5505.3	5737.1	4260.1
35°	6341.2	6290.9	6073.6	5722.6	5428.5	5311.9	5372.9	5435.1	5927.9	6208.7	4518.5
37.5°	7100.2	7031.3	6852.5	6557.1	6199.4	5962.3	6006.0	6078.9	6402.1	6844.5	4833.7
40°	7646.0	7561.2	7471.2	7427.4	7072.4	6747.8	6722.7	6741.2	7043.2	7440.6	5183.4
42.5°	7685.7	7790.4	7818.2	7994.4	7910.9	7644.7	7489.6	7493.6	7655.2	8030.1	5537.1
45°	7602.2	7505.5	7710.9	8191.7	8467.3	8591.8	8330.8	8297.7	8034.1	8371.9	5713.3
47.5°	6726.7	6753.1	7100.2	7860.5	8656.7	9213.0	9152.1	9042.2	8236.8	8359.9	5685.4
50°	5317.2	5477.5	5799.4	6746.5	8126.8	9311.0	9670.1	9415.7	8116.3	8031.5	5402.0
52.5°	3540.8	3607.0	3819.0	5041.7	6534.6	8322.9	9074.0	9132.2	8004.9	7600.9	5043.0
55°	1576.3	1571.1	1869.1	2633.5	4099.9	6333.2	7414.1	7769.2	7577.1	7162.5	4693.3
57.5°	667.7	690.1	812.0	1137.9	2016.1	3821.7	5023.1	5334.4	5827.2	5881.5	3600.5
60°	451.7	454.4	487.5	569.6	843.8	1794.9	2634.8	3008.3	3360.7	3336.8	1910.2
62.5°	355.0	364.3	389.5	422.6	500.7	814.6	1179.0	1386.9	1409.5	1185.5	724.6
65°	303.3	304.7	329.9	357.7	392.1	474.3	568.3	578.9	585.5	564.3	532.5
67.5°	250.3	253.0	272.9	304.7	336.5	362.9	389.5	402.7	433.2	492.7	484.8
70°	198.7	202.6	219.9	246.4	275.5	291.4	324.6	336.5	364.3	410.7	429.2
72.5°	151.0	152.4	166.9	185.4	212.0	227.9	255.6	268.9	287.4	327.2	344.4
75°	108.6	112.6	123.2	132.5	136.5	147.0	173.5	188.1	214.6	231.8	233.2
77.5°	56.9	59.6	62.2	62.2	75.5	95.4	112.6	120.6	139.1	152.4	145.7
80°	22.6	23.9	30.5	41.0	53.0	68.9	80.8	84.8	100.7	108.6	112.6
82.5°	13.2	14.6	19.9	29.1	38.4	49.0	58.3	62.2	72.8	82.1	84.8
85°	6.7	8.0	11.9	18.6	25.1	30.5	29.1	27.8	27.8	26.5	27.8
87.5°	2.7	2.7	4.0	4.0	4.0	5.3	6.7	6.7	6.7	8.0	8.0
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°	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4
2.5°	3102.4	3049.4	3000.4	2910.3	2812.3	2784.4	2670.5	2629.5	2600.3	2565.9	2555.2
5°	3118.3	3048.1	2890.4	2708.9	2564.6	2379.1	2257.2	2126.1	2030.7	2006.9	2000.3
7.5°	3151.4	3030.8	2759.3	2485.1	2189.7	1938.0	1745.9	1642.6	1551.2	1545.9	1536.6
10°	3188.5	2979.2	2616.2	2185.7	1808.2	1575.0	1459.7	1414.7	1392.3	1386.9	1384.3
12.5°	3218.9	2968.6	2456.0	1894.2	1538.0	1397.5	1363.0	1359.1	1368.4	1371.0	1376.4
15°	3232.1	2926.1	2262.6	1633.3	1369.7	1318.0	1332.6	1348.5	1355.1	1372.4	1359.1
17.5°	3257.4	2871.9	2024.1	1426.6	1275.7	1284.9	1310.1	1328.7	1339.2	1351.1	1333.9
20°	3270.6	2822.9	1800.2	1303.5	1242.5	1259.8	1294.2	1308.8	1322.0	1327.3	1307.5
22.5°	3258.7	2722.2	1602.9	1204.1	1210.8	1233.2	1263.8	1279.7	1271.7	1250.5	1238.5
25°	3226.9	2580.5	1397.5	1140.5	1165.7	1205.4	1229.3	1217.3	1202.8	1190.9	1186.9
27.5°	3225.6	2406.9	1249.2	1082.3	1127.3	1181.6	1173.6	1163.1	1169.6	1160.4	1149.8
30°	3232.1	2238.7	1127.3	1049.1	1099.5	1126.0	1135.3	1124.6	1132.6	1115.4	1120.6
32.5°	3197.8	2074.4	1047.8	1010.7	1066.4	1065.0	1095.5	1103.5	1084.9	1049.1	1054.5
35°	3212.3	1942.0	980.2	993.5	1029.3	1029.3	1053.1	1043.8	994.8	973.7	978.9
37.5°	3313.0	1812.2	947.1	969.7	993.5	1004.1	996.1	956.4	944.5	944.5	947.1
40°	3408.4	1700.8	927.2	964.3	960.3	967.0	908.7	912.7	912.7	914.0	907.4
42.5°	3493.1	1625.4	911.3	932.6	939.2	904.8	869.0	865.0	874.3	873.0	867.6
45°	3523.6	1563.1	888.9	896.8	902.1	845.2	827.9	820.0	830.5	834.5	839.8
47.5°	3407.1	1511.4	863.6	847.8	837.2	800.1	777.6	763.0	776.3	798.7	804.1
50°	3257.4	1443.9	824.0	793.5	770.9	755.0	739.2	724.6	733.8	749.7	745.8
52.5°	3036.2	1337.9	773.6	741.8	703.4	707.4	692.8	684.9	690.1	690.1	686.1
55°	2720.8	1099.5	688.8	666.3	634.5	645.1	647.8	637.1	626.6	635.9	627.9
57.5°	1857.2	776.3	614.7	614.7	582.9	597.4	596.1	571.0	545.8	548.4	543.1
60°	1074.3	618.6	567.0	561.6	528.5	540.4	543.1	525.9	487.5	490.2	484.8
62.5°	610.7	528.5	495.4	487.5	480.8	491.5	491.5	468.9	435.8	438.5	433.2
65°	519.3	490.2	442.5	441.1	438.5	441.1	430.5	406.7	377.6	365.6	366.9
67.5°	471.6	453.0	406.7	394.8	386.8	385.5	365.6	343.1	329.9	319.2	317.9
70°	413.3	398.7	364.3	348.4	340.4	321.9	302.0	287.4	268.9	263.6	268.9
72.5°	327.2	325.9	312.7	295.4	278.2	263.6	246.4	226.5	209.3	205.3	196.1
75°	226.5	229.2	231.8	229.2	214.6	196.1	176.2	160.3	139.1	127.2	124.5
77.5°	148.4	152.4	156.3	151.0	141.7	124.5	111.3	91.4	75.5	66.2	64.9
80°	108.6	113.9	116.6	112.6	102.0	88.7	74.2	58.3	46.4	38.4	38.4
82.5°	83.5	88.7	91.4	84.8	74.2	63.6	53.0	41.0	31.8	25.1	23.9
85°	29.1	27.8	33.1	34.5	41.0	38.4	31.8	23.9	18.6	13.2	11.9
87.5°	8.0	8.0	9.2	9.2	8.0	6.7	6.7	6.7	5.3	4.0	4.0
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)