

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: P529012

Luminaire Tested: **GALN-SA4A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11272 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

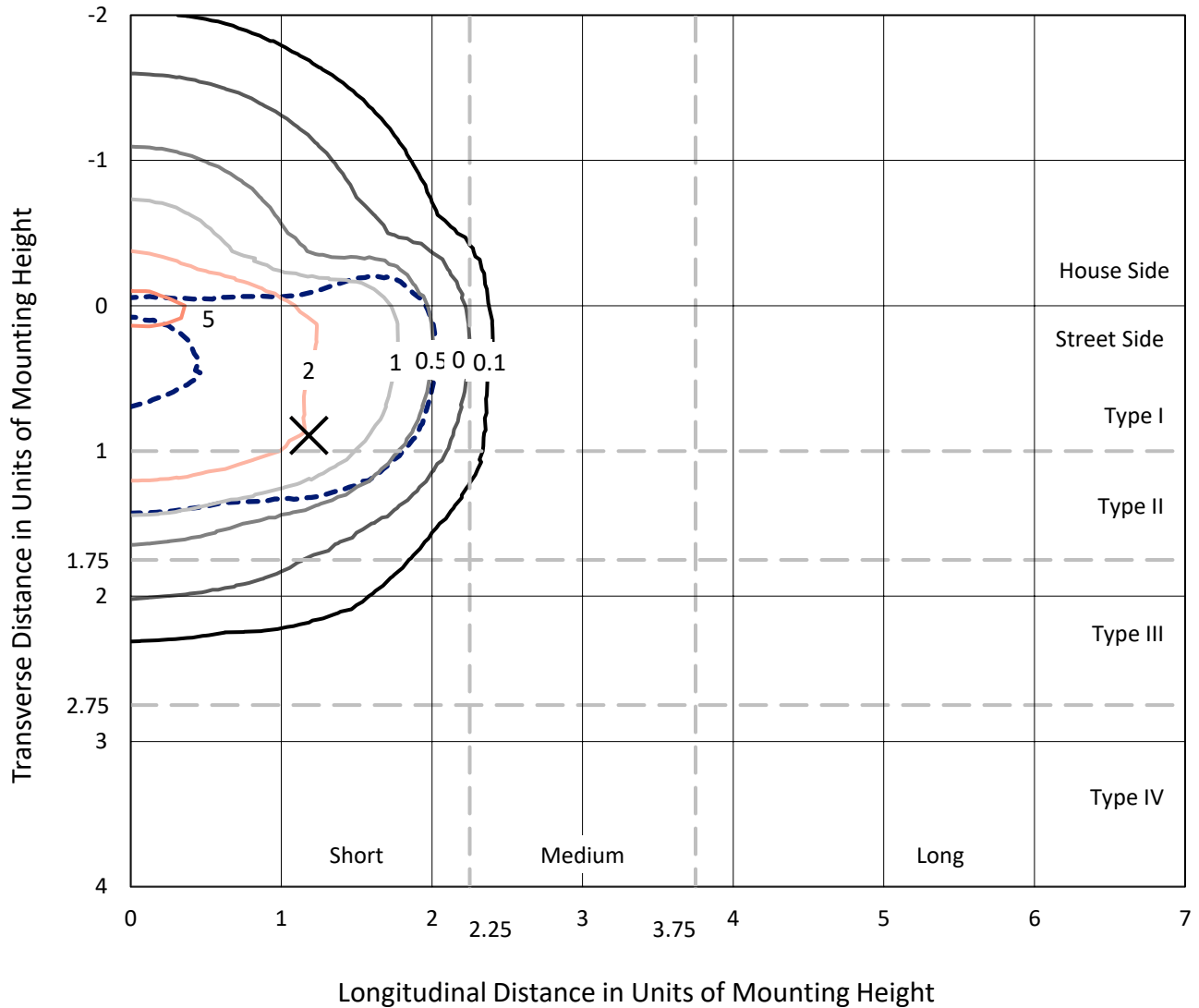
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

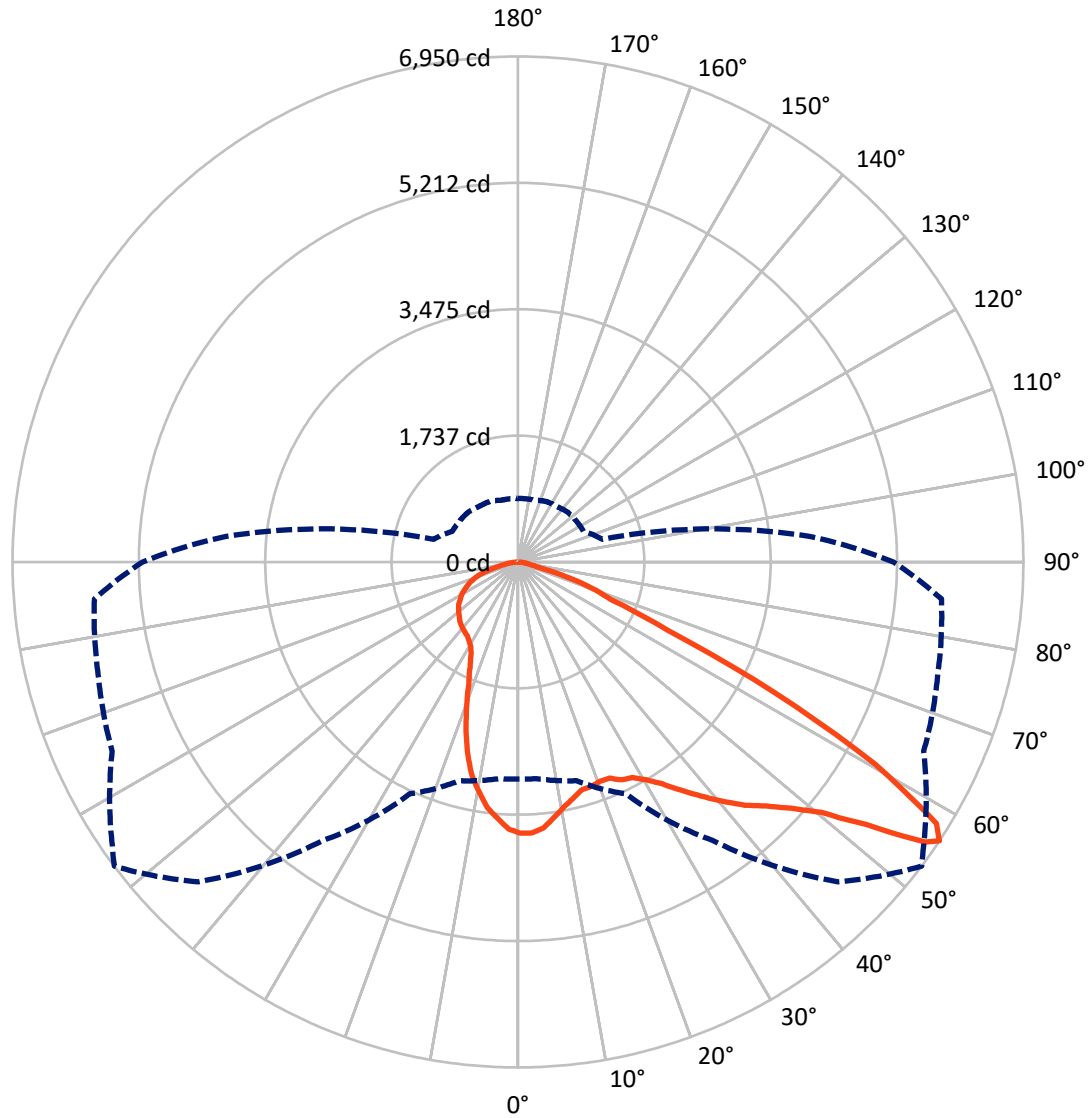
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3289.4	0.0	3289.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	7982.6	0.0	7982.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	11272.0	0.0	11272.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.1	2.9
10°-20°	824.6	7.3
20°-30°	1215.9	10.8
30°-40°	1737.2	15.4
40°-50°	2391.1	21.2
50°-60°	2825.6	25.1
60°-70°	1505.9	13.4
70°-80°	382.0	3.4
80°-90°	59.6	0.5
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°	11272.0	100.0
0°-180°	11272.0	100.0



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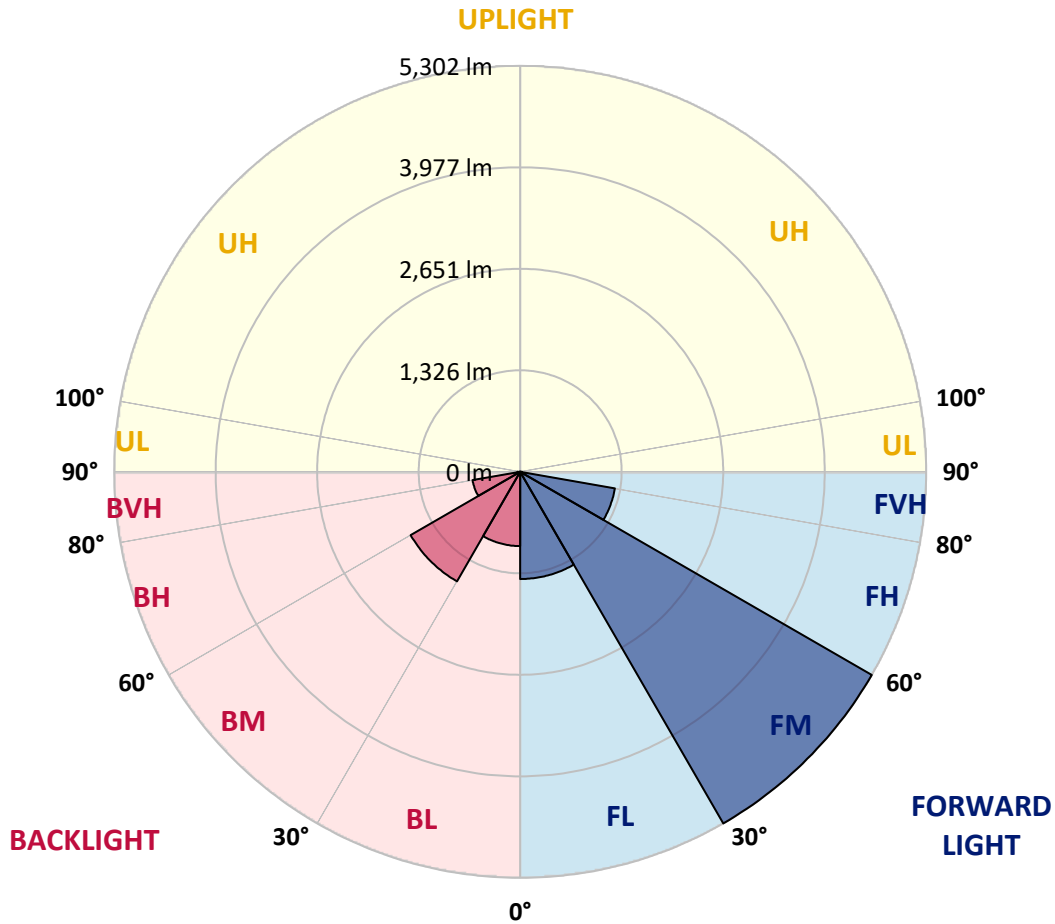
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.4	12.4			
FM (30°-60°)	5302.1	47.0			
FH (60°-80°)	1256.1	11.1			G1/1800
FVH (80°-90°)	23.9	0.2			G1/100
BL (0°-30°)	970.2	8.6	B2/1000		
BM (30°-60°)	1651.8	14.7	B2/2500		
BH (60°-80°)	631.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2
2.5°	3682.9	3651.1	3669.9	3662.7	3722.0	3739.3	3730.7	3737.9	3771.2	3755.2	3722.0
5°	3441.5	3486.3	3495.0	3516.7	3551.4	3619.3	3672.8	3687.3	3703.2	3776.9	3769.7
7.5°	3221.7	3252.0	3236.1	3299.8	3375.0	3484.8	3549.9	3561.5	3707.5	3748.0	3778.4
10°	3082.9	3052.5	3124.8	3142.1	3227.5	3353.3	3431.3	3479.1	3612.1	3772.6	3791.4
12.5°	2954.2	2944.0	2987.4	3036.6	3132.0	3262.2	3341.7	3360.5	3565.8	3735.0	3823.2
15°	2858.7	2847.2	2890.5	2926.7	3038.0	3153.7	3254.9	3308.4	3515.2	3713.3	3795.7
17.5°	2783.5	2782.1	2806.7	2871.7	2986.0	3082.9	3246.3	3249.2	3489.2	3746.6	3818.9
20°	2779.2	2777.8	2782.1	2854.4	2958.5	3077.1	3218.8	3244.8	3489.2	3723.4	3820.3
22.5°	2815.4	2792.2	2818.2	2864.5	2939.7	3087.2	3228.9	3286.7	3573.1	3837.7	3885.4
25°	2873.2	2879.0	2893.4	2909.3	2952.7	3110.3	3318.6	3366.3	3671.4	3936.0	3975.0
27.5°	2978.8	2975.9	2981.6	2990.3	3027.9	3132.0	3354.7	3477.6	3876.7	4111.0	4071.9
30°	3133.5	3123.3	3146.5	3176.9	3142.1	3201.4	3474.7	3567.3	4067.6	4287.4	4180.4
32.5°	3273.7	3311.3	3354.7	3367.7	3325.8	3337.4	3633.8	3727.8	4226.6	4504.3	4313.4
35°	3448.7	3479.1	3536.9	3577.4	3570.2	3535.5	3850.7	3975.0	4456.6	4663.3	4453.7
37.5°	3619.3	3655.5	3750.9	3870.9	3804.4	3788.5	4082.0	4184.7	4527.4	4748.6	4556.3
40°	3894.1	3892.6	4057.5	4119.6	4178.9	4151.5	4322.1	4356.8	4565.0	4729.9	4559.2
42.5°	4216.5	4196.3	4364.0	4460.9	4537.5	4540.4	4572.2	4560.7	4582.4	4634.4	4528.9
45°	4523.1	4566.5	4735.6	4909.2	4985.8	4994.5	4783.4	4761.7	4612.7	4606.9	4471.0
47.5°	4897.6	4907.7	5046.5	5275.0	5452.8	5392.1	5056.6	5008.9	4745.8	4790.6	4567.9
50°	4919.3	4994.5	5118.8	5387.8	5934.4	5918.5	5410.9	5321.3	4959.8	5050.9	4838.3
52.5°	4465.2	4447.9	4595.4	5035.0	5898.2	6441.9	5998.0	5784.0	5419.6	5350.2	5276.4
55°	3402.4	3442.9	3573.1	4017.0	5121.7	6449.1	6797.6	6622.7	5911.2	5792.7	5707.3
56°	2984.5	2990.3	3113.2	3518.1	4673.5	6219.2	6949.5	6807.7	6155.6	5974.9	5844.7
57.5°	2474.1	2440.8	2504.5	2725.7	3944.7	5733.4	6783.2	6922.0	6441.9	6171.5	5990.8
60°	1947.8	1940.5	1914.5	1955.0	2492.9	4319.2	5646.6	5958.9	6413.0	5986.4	5737.7
62.5°	1590.6	1554.4	1606.5	1664.3	1732.3	2679.4	3967.8	4151.5	5091.3	4779.0	4310.5
65°	1233.4	1216.1	1281.2	1469.1	1509.6	1701.9	2260.1	2401.8	3006.2	2952.7	2599.9
67.5°	848.8	851.7	908.1	1194.4	1399.7	1382.4	1383.8	1457.6	1568.9	1165.5	1015.1
70°	537.9	536.5	566.8	769.3	1126.4	1138.0	1080.2	1058.5	1003.5	607.3	643.5
72.5°	345.6	335.5	351.4	425.1	582.7	673.8	694.1	707.1	581.3	477.2	517.7
75°	195.2	185.1	179.3	198.1	229.9	266.1	292.1	300.8	336.9	361.5	383.2
77.5°	59.3	53.5	65.1	86.8	114.2	153.3	186.5	192.3	227.0	255.9	277.6
80°	26.0	28.9	40.5	57.8	81.0	108.4	131.6	140.3	163.4	185.1	190.9
82.5°	15.9	17.4	27.5	39.0	56.4	76.6	94.0	96.9	120.0	137.4	141.7
85°	5.8	7.2	14.5	23.1	36.1	49.2	49.2	53.5	49.2	49.2	53.5
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	5.8	5.8	7.2	8.7	10.1
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°	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2	3729.2
2.5°	3739.3	3732.1	3720.5	3678.6	3674.3	3661.3	3589.0	3577.4	3589.0	3554.3	3557.1
5°	3732.1	3753.8	3667.0	3625.1	3547.0	3490.6	3425.6	3392.3	3333.0	3295.4	3337.4
7.5°	3763.9	3755.2	3646.8	3555.7	3438.6	3295.4	3181.2	3116.1	3012.0	2983.1	3004.8
10°	3752.4	3706.1	3578.8	3458.8	3237.6	3111.8	2926.7	2747.4	2649.1	2598.5	2591.2
12.5°	3736.5	3723.4	3510.9	3304.1	3071.3	2806.7	2546.4	2377.2	2216.7	2147.3	2157.4
15°	3755.2	3645.4	3383.6	3121.9	2812.5	2465.4	2184.9	1966.6	1855.2	1810.4	1810.4
17.5°	3746.6	3607.8	3322.9	2918.0	2526.2	2115.5	1807.5	1675.9	1629.6	1629.6	1642.7
20°	3750.9	3632.3	3200.0	2714.1	2187.8	1781.5	1557.3	1509.6	1529.9	1537.1	1544.3
22.5°	3775.5	3551.4	3080.0	2490.0	1874.0	1524.1	1414.2	1415.6	1451.8	1490.8	1483.6
25°	3805.9	3519.6	2933.9	2267.3	1634.0	1398.3	1363.6	1359.2	1386.7	1407.0	1409.8
27.5°	3779.8	3464.6	2785.0	1989.7	1437.3	1314.4	1307.2	1310.1	1318.7	1359.2	1346.2
30°	3865.1	3480.5	2598.5	1756.9	1328.9	1286.9	1278.3	1273.9	1286.9	1298.5	1288.4
32.5°	3970.7	3424.1	2459.6	1532.8	1275.4	1266.7	1249.3	1243.6	1250.8	1239.2	1245.0
35°	4017.0	3414.0	2278.9	1372.2	1233.4	1226.2	1216.1	1214.6	1216.1	1206.0	1197.3
37.5°	4043.0	3461.7	2072.1	1298.5	1207.4	1214.6	1191.5	1188.6	1162.6	1168.4	1172.7
40°	4087.8	3388.0	1904.4	1227.6	1191.5	1177.0	1156.8	1152.5	1135.1	1125.0	1135.1
42.5°	4022.8	3366.3	1739.5	1197.3	1168.4	1152.5	1138.0	1113.4	1107.6	1099.0	1093.2
45°	3970.7	3241.9	1592.0	1159.7	1140.9	1132.2	1104.7	1078.7	1057.0	1065.7	1052.7
47.5°	4009.7	3198.5	1446.0	1127.9	1103.3	1093.2	1065.7	1045.5	1023.8	1013.6	1010.8
50°	4165.9	3279.5	1323.1	1104.7	1071.5	1065.7	1029.5	1006.4	986.2	978.9	981.8
52.5°	4539.0	3500.8	1239.2	1057.0	1041.1	1015.1	994.8	965.9	952.9	929.8	944.2
55°	5011.8	3860.8	1217.5	1012.2	1003.5	980.4	952.9	931.2	906.6	887.8	883.5
56°	5163.6	4032.9	1200.2	994.8	980.4	967.4	931.2	918.2	879.2	874.8	871.9
57.5°	5286.6	4184.7	1203.1	961.6	947.1	935.6	913.9	882.1	856.0	840.1	847.4
60°	5008.9	3917.2	1148.1	911.0	908.1	886.4	856.0	841.6	809.8	791.0	786.6
62.5°	3723.4	2659.2	931.2	845.9	844.5	821.3	786.6	770.7	764.9	738.9	738.9
65°	2144.4	1667.2	805.4	792.4	780.8	757.7	723.0	710.0	695.5	686.8	679.6
67.5°	915.3	864.7	731.7	730.2	717.2	688.3	653.6	633.3	614.5	597.2	605.9
70°	663.7	673.8	660.8	653.6	637.7	601.5	571.2	546.6	517.7	506.1	514.8
72.5°	526.3	548.0	566.8	568.3	549.5	507.5	474.3	441.0	409.2	393.3	400.5
75°	399.1	413.6	432.4	436.7	409.2	380.3	348.5	313.8	289.2	270.4	273.3
77.5°	287.8	284.9	302.2	299.3	286.3	266.1	237.1	205.3	177.9	160.5	162.0
80°	196.7	201.0	211.1	209.7	193.8	180.7	159.1	133.0	112.8	98.3	95.4
82.5°	137.4	144.6	153.3	146.0	133.0	120.0	104.1	85.3	69.4	57.8	54.9
85°	49.2	56.4	65.1	69.4	73.7	70.9	59.3	47.7	34.7	28.9	27.5
87.5°	10.1	11.6	13.0	13.0	13.0	11.6	10.1	10.1	8.7	4.3	4.3
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)