

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: P651835

Luminaire Tested: **GALN-SA4A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651835  
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-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 12895.9 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

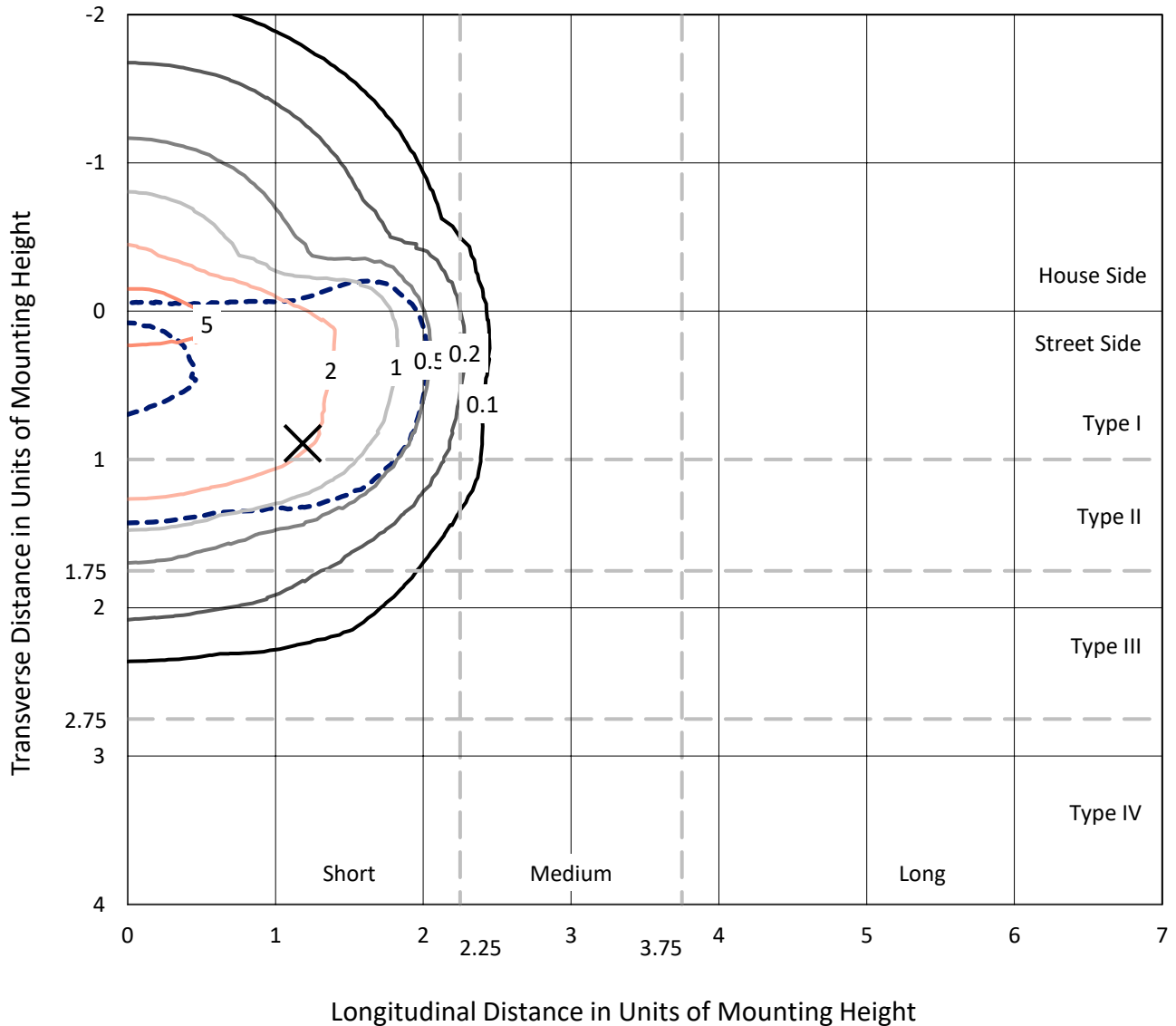
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

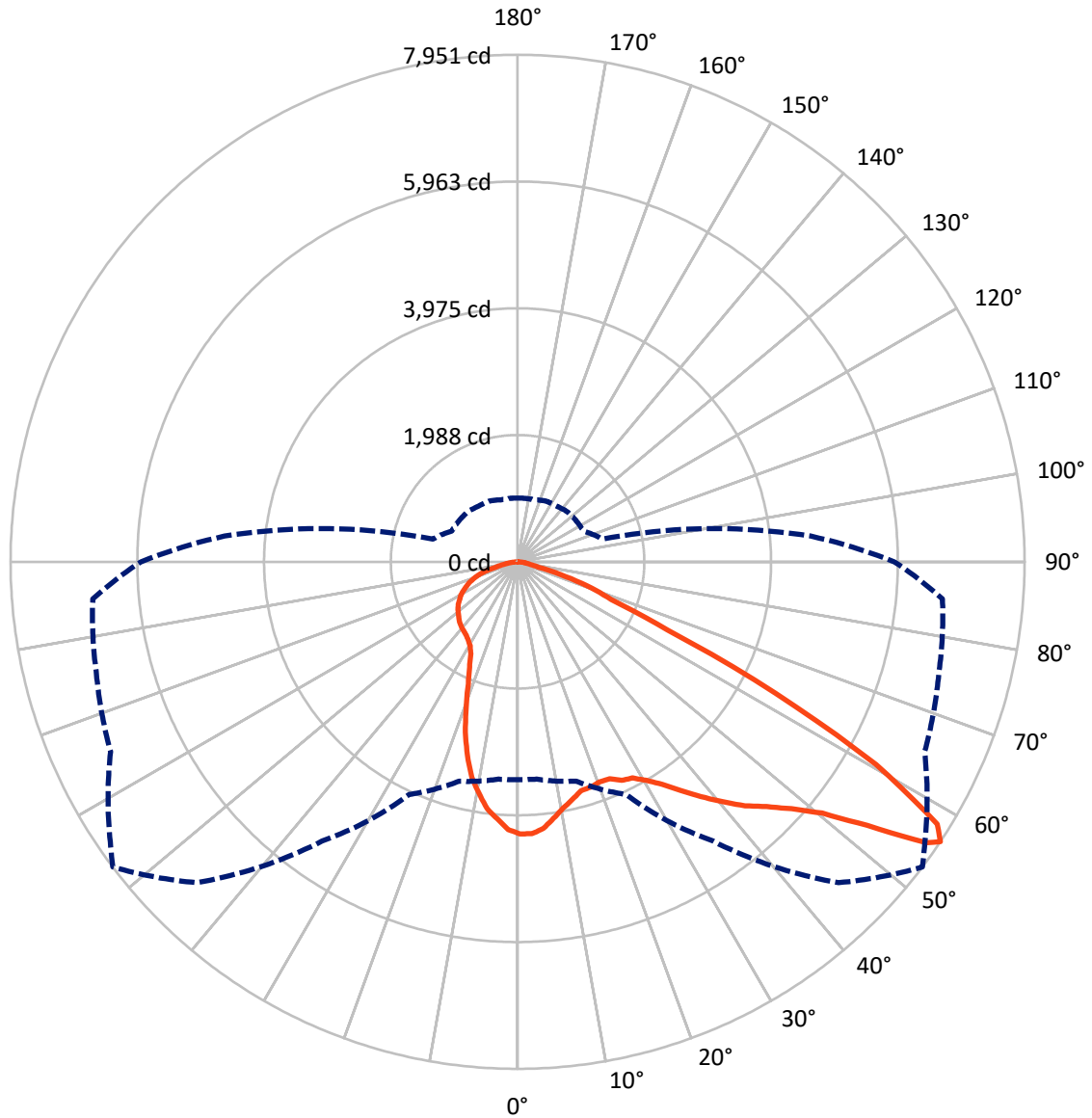
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3763.3	0.0	3763.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	9132.6	0.0	9132.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	12895.9	0.0	12895.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.7	2.9
10°-20°	943.3	7.3
20°-30°	1391.0	10.8
30°-40°	1987.5	15.4
40°-50°	2735.6	21.2
50°-60°	3232.7	25.1
60°-70°	1722.8	13.4
70°-80°	437.1	3.4
80°-90°	68.2	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°	12895.9	100.0
0°-180°	12895.9	100.0

**Coefficient of Utilization**



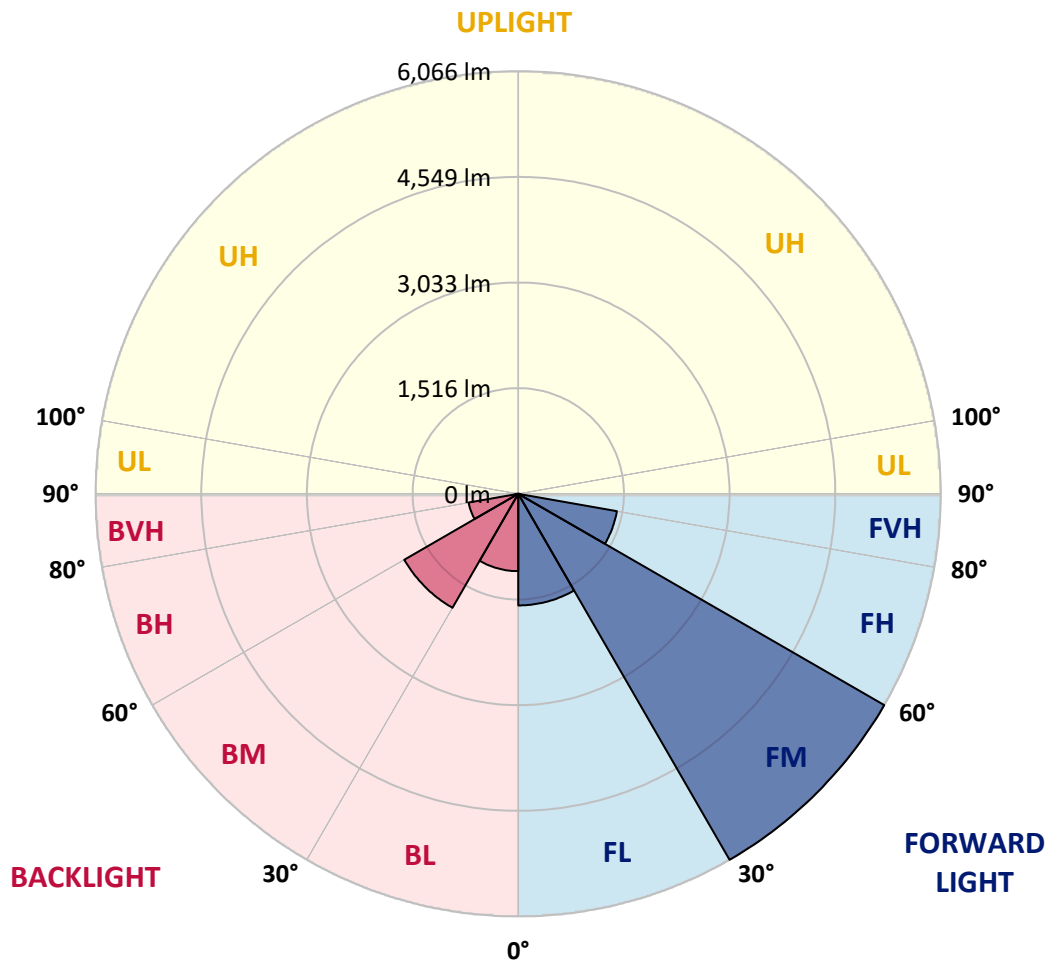
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.1	12.4			
FM (30°-60°)	6066.0	47.0			
FH (60°-80°)	1437.1	11.1			G1/1800
FVH (80°-90°)	27.4	0.2			G1/100
BL (0°-30°)	1110.0	8.6	B3/2500		
BM (30°-60°)	1889.8	14.7	B2/2500		
BH (60°-80°)	722.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	40.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5
2.5°	4213.5	4177.2	4198.6	4190.4	4258.2	4278.1	4268.2	4276.4	4314.4	4296.2	4258.2
5°	3937.2	3988.5	3998.5	4023.3	4063.0	4140.7	4202.0	4218.5	4236.7	4321.1	4312.8
7.5°	3685.8	3720.6	3702.3	3775.2	3861.2	3986.9	4061.4	4074.6	4241.7	4288.0	4322.7
10°	3527.0	3492.3	3575.0	3594.9	3692.4	3836.4	3925.7	3980.3	4132.5	4316.1	4337.6
12.5°	3379.7	3368.2	3417.8	3474.1	3583.2	3732.1	3823.1	3844.6	4079.5	4273.1	4374.0
15°	3270.6	3257.4	3307.0	3348.4	3475.7	3608.1	3723.9	3785.1	4021.7	4248.3	4342.6
17.5°	3184.5	3182.9	3211.0	3285.5	3416.1	3527.0	3713.9	3717.2	3991.9	4286.3	4369.1
20°	3179.6	3178.0	3182.9	3265.6	3384.7	3520.3	3682.5	3712.3	3991.9	4259.8	4370.7
22.5°	3220.9	3194.5	3224.2	3277.2	3363.2	3531.9	3694.1	3760.3	4087.8	4390.5	4445.1
25°	3287.1	3293.8	3310.3	3328.5	3378.1	3558.4	3796.6	3851.3	4200.3	4503.1	4547.7
27.5°	3407.9	3404.5	3411.2	3421.1	3464.2	3583.2	3838.0	3978.6	4435.2	4703.2	4658.6
30°	3584.9	3573.3	3599.8	3634.5	3594.9	3662.6	3975.3	4081.2	4653.6	4905.0	4782.6
32.5°	3745.4	3788.4	3838.0	3852.9	3804.9	3818.1	4157.3	4264.8	4835.6	5153.1	4934.8
35°	3945.6	3980.3	4046.5	4092.7	4084.5	4044.8	4405.4	4547.7	5098.6	5335.1	5095.3
37.5°	4140.7	4182.1	4291.3	4428.6	4352.5	4334.3	4670.2	4787.6	5179.6	5432.8	5212.8
40°	4455.0	4453.4	4642.0	4713.1	4781.0	4749.5	4944.7	4984.4	5222.7	5411.2	5216.1
42.5°	4824.0	4800.8	4992.7	5103.5	5191.2	5194.5	5230.9	5217.7	5242.5	5302.1	5181.3
45°	5174.7	5224.3	5417.9	5616.4	5704.1	5714.0	5472.5	5447.7	5277.3	5270.6	5115.1
47.5°	5603.2	5614.8	5773.5	6034.9	6238.4	6168.9	5785.2	5730.6	5429.4	5480.7	5226.0
50°	5628.0	5714.0	5856.3	6163.9	6789.3	6771.1	6190.4	6087.8	5674.3	5778.5	5535.3
52.5°	5108.5	5088.6	5257.4	5760.3	6747.9	7369.9	6862.1	6617.2	6200.4	6121.0	6036.6
55°	3892.6	3938.9	4087.8	4595.6	5859.6	7378.3	7776.9	7576.7	6762.8	6627.2	6529.6
56°	3414.5	3421.1	3561.7	4024.9	5346.7	7115.2	7950.6	7788.5	7042.4	6835.6	6686.7
57.5°	2830.6	2792.5	2865.3	3118.3	4513.0	6559.4	7760.4	7919.2	7369.9	7060.6	6853.8
60°	2228.4	2220.1	2190.3	2236.6	2852.0	4941.5	6460.1	6817.4	7336.9	6848.9	6564.3
62.5°	1819.8	1778.4	1837.9	1904.1	1981.9	3065.4	4539.5	4749.5	5824.9	5467.5	4931.5
65°	1411.1	1391.3	1465.7	1680.8	1727.1	1947.1	2585.7	2747.8	3439.4	3378.1	2974.4
67.5°	971.1	974.4	1038.9	1366.5	1601.3	1581.5	1583.2	1667.5	1794.9	1333.4	1161.3
70°	615.4	613.8	648.5	880.1	1288.7	1302.0	1235.8	1211.0	1148.1	694.8	736.1
72.5°	395.4	383.8	402.0	486.4	666.7	770.9	794.1	809.0	665.1	545.9	592.2
75°	223.4	211.8	205.1	226.6	263.1	304.4	334.1	344.1	385.4	413.6	438.4
77.5°	67.9	61.2	74.4	99.2	130.7	175.3	213.4	220.0	259.7	292.8	317.6
80°	29.8	33.1	46.3	66.2	92.7	124.0	150.5	160.5	187.0	211.8	218.4
82.5°	18.2	19.8	31.5	44.7	64.5	87.7	107.6	110.8	137.3	157.2	162.1
85°	6.6	8.2	16.6	26.5	41.4	56.3	56.3	61.2	56.3	56.3	61.2
87.5°	0.0	0.0	1.7	3.3	3.3	5.0	6.6	6.6	8.2	9.9	11.6
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°	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5	4266.5
2.5°	4278.1	4269.8	4256.6	4208.5	4203.6	4188.7	4106.0	4092.7	4106.0	4066.3	4069.6
5°	4269.8	4294.6	4195.3	4147.4	4058.0	3993.5	3919.1	3881.0	3813.2	3770.2	3818.1
7.5°	4306.2	4296.2	4172.2	4067.9	3933.9	3770.2	3639.5	3565.1	3445.9	3412.9	3437.7
10°	4293.0	4240.0	4094.4	3957.1	3704.0	3560.0	3348.4	3143.2	3030.7	2972.8	2964.5
12.5°	4274.7	4259.8	4016.7	3780.1	3513.8	3211.0	2913.2	2719.7	2536.0	2456.6	2468.3
15°	4296.2	4170.5	3871.1	3571.6	3217.7	2820.6	2499.7	2249.8	2122.5	2071.2	2071.2
17.5°	4286.3	4127.5	3801.6	3338.4	2890.1	2420.2	2067.9	1917.3	1864.4	1864.4	1879.3
20°	4291.3	4155.6	3661.0	3105.1	2503.0	2038.1	1781.7	1727.1	1750.3	1758.5	1766.8
22.5°	4319.4	4063.0	3523.7	2848.7	2144.0	1743.6	1617.9	1619.6	1660.9	1705.6	1697.3
25°	4354.1	4026.6	3356.6	2594.0	1869.4	1599.8	1560.1	1555.1	1586.5	1609.7	1613.0
27.5°	4324.3	3963.7	3186.2	2276.3	1644.4	1503.8	1495.5	1498.8	1508.8	1555.1	1540.1
30°	4422.0	3982.0	2972.8	2010.0	1520.3	1472.3	1462.4	1457.5	1472.3	1485.5	1474.0
32.5°	4542.7	3917.4	2814.0	1753.6	1459.1	1449.2	1429.4	1422.7	1431.0	1417.8	1424.4
35°	4595.6	3905.9	2607.2	1570.0	1411.1	1402.9	1391.3	1389.6	1391.3	1379.7	1369.7
37.5°	4625.4	3960.4	2370.6	1485.5	1381.3	1389.6	1363.2	1359.8	1330.0	1336.7	1341.6
40°	4676.7	3876.1	2178.7	1404.5	1363.2	1346.6	1323.5	1318.5	1298.7	1287.1	1298.7
42.5°	4602.3	3851.3	1990.1	1369.7	1336.7	1318.5	1302.0	1273.8	1267.2	1257.3	1250.7
45°	4542.7	3709.0	1821.4	1326.8	1305.2	1295.3	1263.9	1234.1	1209.3	1219.2	1204.3
47.5°	4587.4	3659.4	1654.3	1290.3	1262.3	1250.7	1219.2	1196.1	1171.3	1159.7	1156.4
50°	4766.0	3752.0	1513.7	1263.9	1225.8	1219.2	1177.9	1151.4	1128.2	1120.0	1123.2
52.5°	5192.9	4005.1	1417.8	1209.3	1191.1	1161.3	1138.1	1105.1	1090.2	1063.7	1080.3
55°	5733.9	4417.0	1392.9	1158.1	1148.1	1121.6	1090.2	1065.4	1037.3	1015.8	1010.8
56°	5907.5	4613.9	1373.1	1138.1	1121.6	1106.8	1065.4	1050.5	1005.8	1000.9	997.5
57.5°	6048.1	4787.6	1376.4	1100.1	1083.5	1070.3	1045.5	1009.1	979.3	961.2	969.4
60°	5730.6	4481.5	1313.6	1042.3	1038.9	1014.1	979.3	962.8	926.4	904.9	900.0
62.5°	4259.8	3042.3	1065.4	967.7	966.1	939.6	900.0	881.8	875.1	845.4	845.4
65°	2453.4	1907.4	921.5	906.6	893.3	866.8	827.1	812.2	795.8	785.8	777.5
67.5°	1047.2	989.3	837.0	835.4	820.6	787.4	747.7	724.6	703.1	683.2	693.2
70°	759.3	770.9	756.1	747.7	729.6	688.2	653.5	625.4	592.2	579.0	589.0
72.5°	602.2	627.0	648.5	650.2	628.6	580.6	542.6	504.6	468.2	449.9	458.3
75°	456.6	473.1	494.7	499.6	468.2	435.0	398.7	359.0	330.8	309.3	312.7
77.5°	329.2	325.9	345.7	342.5	327.6	304.4	271.3	234.9	203.5	183.6	185.3
80°	225.0	229.9	241.5	239.9	221.7	206.8	182.0	152.2	129.0	112.5	109.2
82.5°	157.2	165.4	175.3	167.1	152.2	137.3	119.1	97.6	79.4	66.2	62.8
85°	56.3	64.5	74.4	79.4	84.4	81.1	67.9	54.6	39.7	33.1	31.5
87.5°	11.6	13.2	14.9	14.9	14.9	13.2	11.6	11.6	9.9	5.0	5.0
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)