

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: P453215

Luminaire Tested: **GALN-SA4B-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18659 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

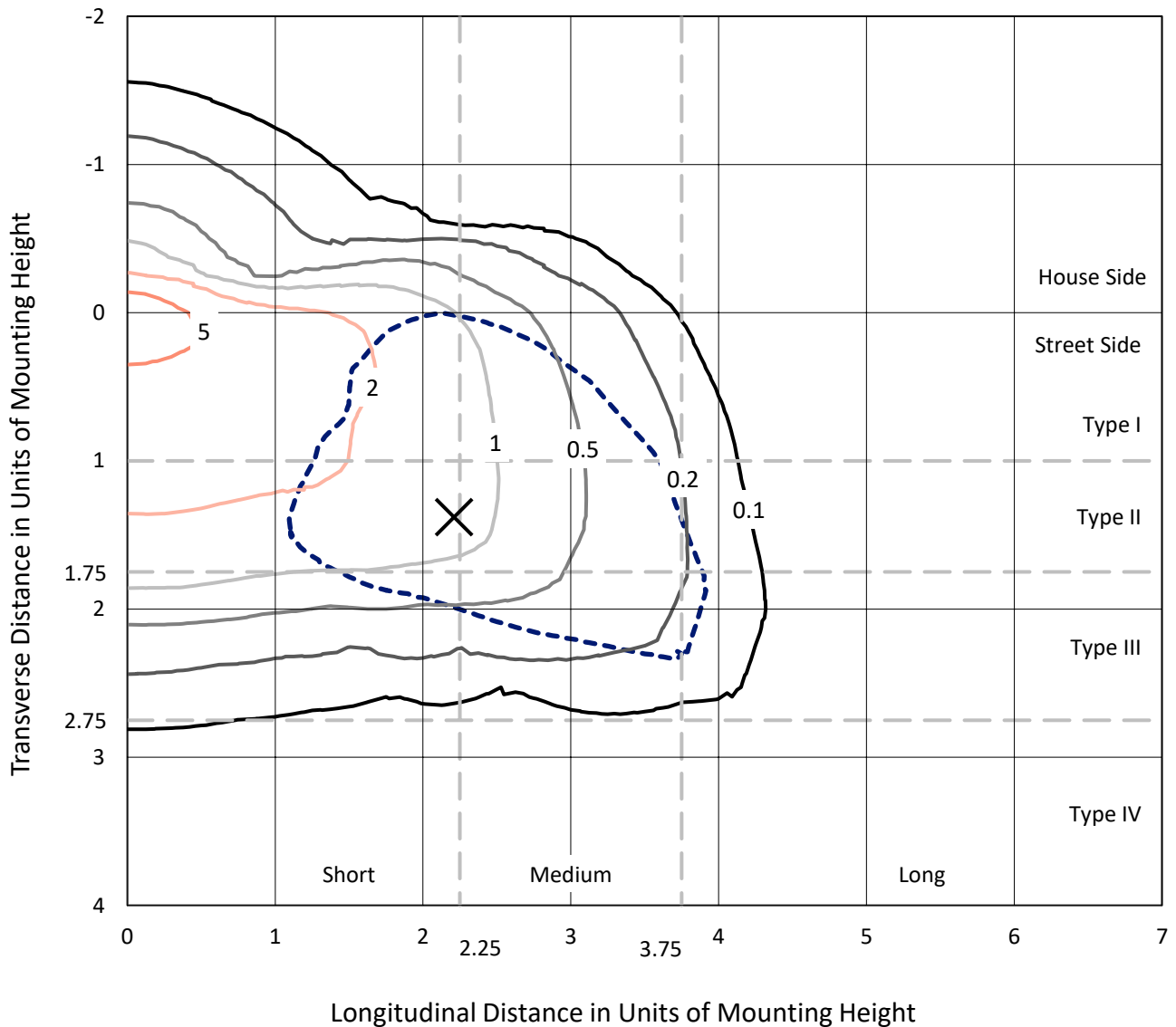
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

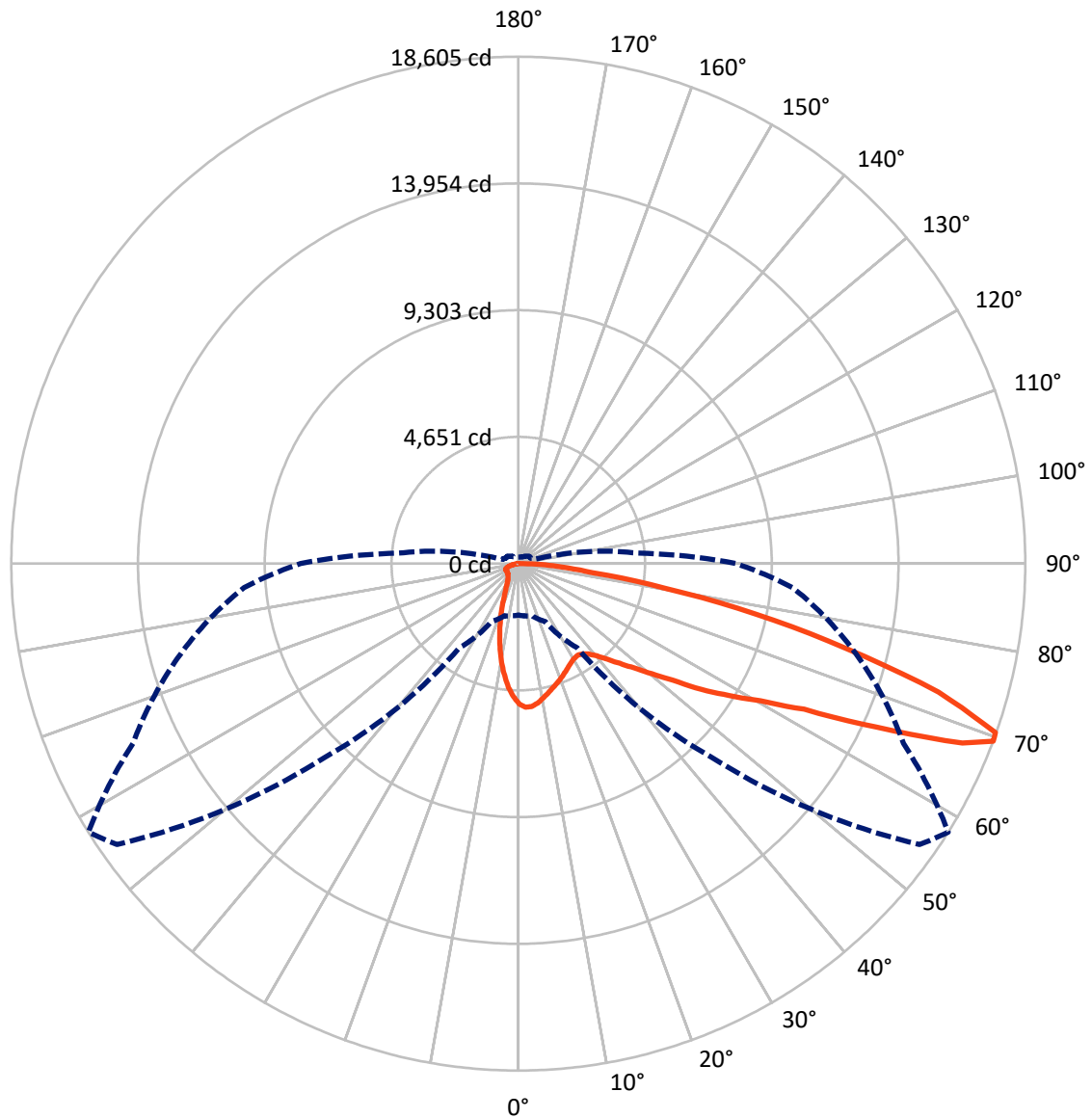
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2734.5	0.0	2734.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	15924.5	0.0	15924.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	18659.0	0.0	18659.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.9	2.3
10°-20°	961.5	5.2
20°-30°	1242.3	6.7
30°-40°	1613.5	8.6
40°-50°	2345.8	12.6
50°-60°	3743.2	20.1
60°-70°	5000.4	26.8
70°-80°	2882.5	15.4
80°-90°	431.7	2.3
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°	18659.0	100.0
0°-180°	18659.0	100.0

**Coefficient of Utilization**



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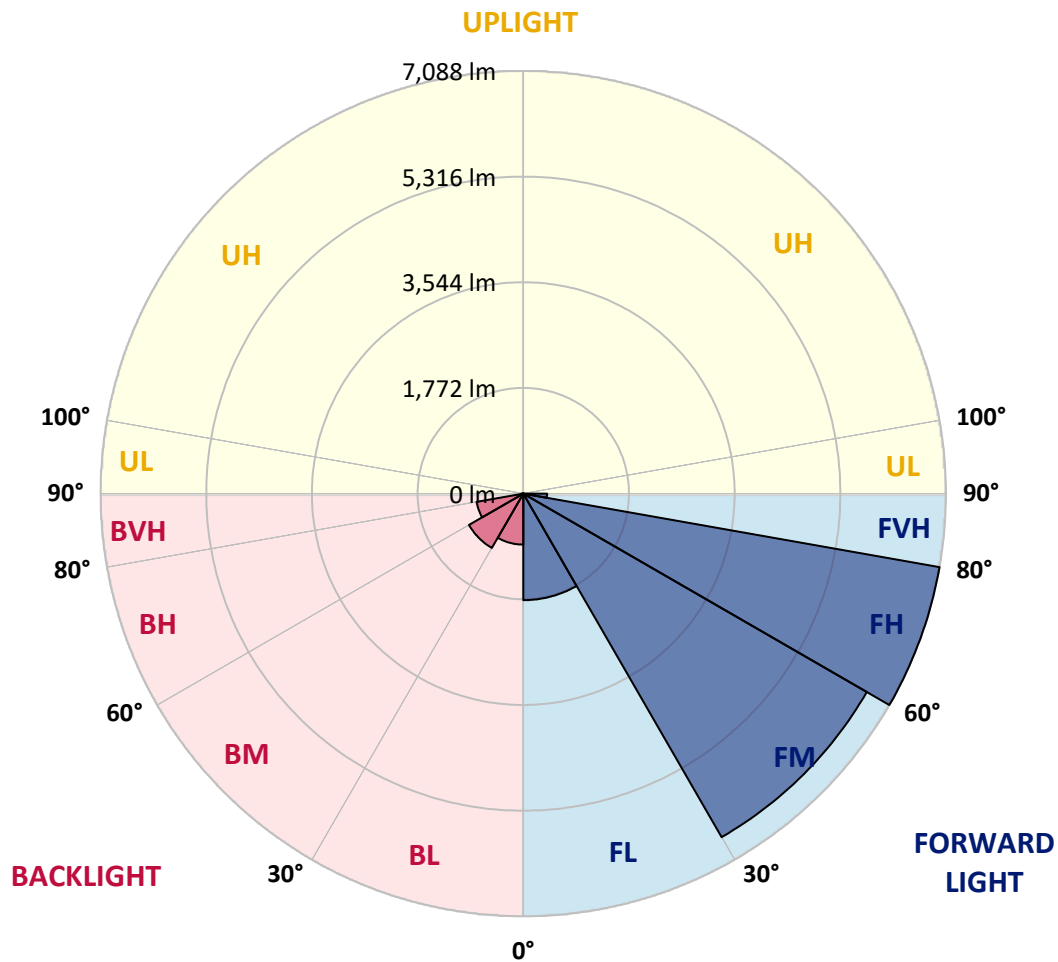
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.1	9.6			
FM (30°-60°)	6651.0	35.6			
FH (60°-80°)	7087.8	38.0			G3/7500
FVH (80°-90°)	398.7	2.1			G3/500
BL (0°-30°)	854.7	4.6	B2/1000		
BM (30°-60°)	1051.6	5.6	B2/2500		
BH (60°-80°)	795.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3
2.5°	5347.7	5362.3	5358.1	5352.9	5344.6	5321.7	5284.3	5278.0	5254.1	5203.1	5139.6
5°	5265.5	5278.0	5279.0	5286.3	5296.7	5292.6	5265.5	5262.4	5227.0	5158.3	5052.2
7.5°	4983.5	5000.2	5036.6	5077.2	5113.6	5147.9	5156.3	5161.5	5139.6	5060.5	4919.0
10°	4666.1	4682.8	4699.4	4759.8	4849.3	4934.6	5005.4	5014.7	5019.9	4947.1	4774.3
12.5°	4314.4	4348.7	4384.1	4473.6	4593.3	4727.5	4852.4	4872.2	4907.5	4852.4	4649.5
15°	4015.7	4051.1	4102.1	4182.2	4326.9	4520.4	4696.3	4728.6	4798.3	4770.2	4532.9
17.5°	3808.7	3821.1	3856.5	3948.1	4104.2	4308.2	4543.3	4607.9	4719.2	4711.9	4433.0
20°	3645.3	3660.9	3682.7	3738.9	3901.3	4116.7	4400.8	4484.0	4634.9	4659.9	4334.2
22.5°	3576.6	3588.0	3584.9	3615.1	3725.4	3941.9	4256.1	4355.0	4560.0	4624.5	4242.6
25°	3580.8	3591.2	3575.6	3568.3	3633.8	3787.8	4105.2	4231.1	4499.6	4600.6	4159.3
27.5°	3650.5	3657.8	3628.6	3599.5	3604.7	3692.1	3980.4	4119.8	4448.6	4611.0	4089.6
30°	3744.1	3757.7	3738.9	3703.6	3665.1	3669.2	3900.2	4037.6	4424.7	4647.4	4056.3
32.5°	3864.9	3877.3	3869.0	3840.9	3791.0	3735.8	3880.5	4007.4	4426.8	4721.3	4049.0
35°	3991.8	4016.8	4030.3	4028.2	3987.6	3891.9	3958.5	4063.6	4476.7	4845.1	4091.7
37.5°	4135.4	4156.2	4214.5	4252.0	4214.5	4103.2	4134.4	4207.2	4587.0	5024.1	4185.4
40°	4274.9	4306.1	4391.4	4508.0	4493.4	4395.6	4402.8	4450.7	4781.6	5290.5	4368.5
42.5°	4420.5	4458.0	4606.8	4779.6	4813.9	4737.9	4757.7	4800.4	5058.4	5659.9	4682.8
45°	4607.9	4652.6	4835.7	5051.2	5186.4	5139.6	5195.8	5216.6	5428.9	6140.7	5096.9
47.5°	4849.3	4901.3	5127.1	5395.6	5587.1	5629.7	5727.6	5715.1	5887.8	6709.9	5633.9
50°	5256.2	5285.3	5498.6	5772.3	6035.6	6228.1	6334.2	6354.0	6457.0	7263.5	6234.3
52.5°	5740.0	5766.1	5920.1	6159.4	6489.3	6897.2	7159.4	7094.9	7119.9	7937.8	6936.8
55°	6284.3	6328.0	6425.8	6585.0	7012.7	7613.2	8139.7	8155.3	7878.5	8583.0	7610.0
57.5°	6705.7	6779.6	6947.2	7174.0	7716.2	8409.2	9116.8	9127.2	8773.4	9271.9	8353.0
60°	6493.4	6580.9	6963.8	7516.4	8639.2	9798.4	10284.4	10225.1	9644.4	10056.5	9259.4
62.5°	5577.7	5593.3	6150.0	7013.8	8923.3	11657.0	12022.2	11771.5	10806.8	11051.3	10180.4
65°	3609.9	3711.9	4153.1	5363.3	7989.9	12688.2	15067.1	14487.5	12436.4	12180.4	10951.4
67.5°	2279.0	2252.9	2436.1	3062.5	5495.5	11779.8	17665.5	17573.9	14567.6	12893.2	10767.3
69°	1889.8	1918.9	1981.3	2347.6	3781.6	10057.6	17972.5	18605.2	15600.9	12837.0	10098.1
70°	1713.9	1727.4	1793.0	2081.2	2917.9	8423.8	17468.8	18577.1	16006.8	12601.9	9613.2
72.5°	1360.1	1359.0	1471.4	1731.6	2181.1	4808.7	14343.9	16128.5	15553.1	11507.1	7943.0
75°	1033.3	1050.0	1173.8	1465.2	2009.4	2627.6	10009.7	12420.8	12421.8	9088.7	4956.5
77.5°	745.1	755.5	900.1	1230.0	1892.9	2130.1	6667.2	8908.7	8374.9	4164.5	1557.8
80°	488.0	494.3	604.6	974.0	1706.6	2009.4	3953.3	5452.8	3950.2	1105.1	515.1
82.5°	267.4	298.7	369.4	630.6	1369.5	1856.5	2402.8	2759.7	1481.8	492.2	268.5
85°	134.2	142.6	208.1	368.4	894.9	1536.0	1673.3	1582.8	764.9	244.5	139.4
87.5°	39.5	49.9	86.4	142.6	363.2	800.2	931.4	835.6	294.5	88.5	29.1
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°	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3
2.5°	5113.6	5094.9	5011.6	4936.7	4868.0	4795.2	4733.8	4679.7	4684.9	4685.9	4630.7
5°	4997.0	4954.4	4796.2	4648.4	4523.6	4365.4	4230.1	4142.7	4099.0	4040.7	4061.5
7.5°	4838.9	4756.7	4537.1	4291.5	4061.5	3856.5	3633.8	3480.9	3383.0	3288.3	3300.8
10°	4675.5	4543.3	4223.9	3899.2	3601.6	3273.8	2989.7	2746.2	2565.1	2497.5	2452.7
12.5°	4508.0	4334.2	3928.3	3496.5	3085.4	2693.1	2290.4	2029.2	1829.4	1723.3	1736.8
15°	4355.0	4143.7	3620.3	3093.8	2559.9	2092.7	1691.0	1442.3	1302.9	1273.7	1290.4
17.5°	4213.5	3936.7	3332.1	2702.5	2079.2	1569.2	1270.6	1130.1	1073.9	1058.3	1057.3
20°	4067.8	3760.8	3008.4	2284.2	1620.2	1216.5	1042.7	977.1	966.7	973.0	974.0
22.5°	3920.0	3543.3	2675.4	1868.9	1290.4	994.8	911.6	893.9	902.2	916.8	918.9
25°	3783.7	3351.8	2354.9	1504.7	1030.2	874.1	833.5	833.5	852.3	874.1	875.2
27.5°	3671.3	3166.6	2035.4	1194.6	862.7	786.7	773.2	780.5	806.5	823.1	824.2
30°	3578.7	2993.9	1733.7	957.4	758.6	717.0	713.9	726.4	745.1	760.7	761.7
32.5°	3509.0	2841.9	1451.7	804.4	686.8	663.9	662.9	672.2	682.6	686.8	691.0
35°	3481.9	2716.0	1193.6	707.6	638.9	624.4	624.4	623.3	627.5	629.6	631.7
37.5°	3503.8	2619.2	993.8	645.2	603.6	593.2	586.9	580.7	578.6	578.6	579.6
40°	3596.4	2568.2	845.0	604.6	578.6	563.0	551.5	544.2	537.0	539.0	541.1
42.5°	3793.0	2577.6	744.0	577.5	556.7	534.9	518.2	509.9	504.7	510.9	509.9
45°	4106.3	2671.3	679.5	558.8	534.9	506.8	491.2	482.8	482.8	492.2	495.3
47.5°	4544.4	2850.2	645.2	544.2	518.2	484.9	469.3	463.1	465.2	480.8	481.8
50°	5079.2	3161.4	638.9	537.0	509.9	469.3	451.6	445.4	450.6	467.2	469.3
52.5°	5669.3	3562.0	669.1	538.0	502.6	460.0	437.1	427.7	432.9	446.4	450.6
55°	6368.6	4063.6	747.2	542.2	492.2	454.7	426.7	405.8	412.1	421.4	422.5
57.5°	7082.4	4696.3	884.5	543.2	483.9	445.4	409.0	381.9	381.9	388.1	391.3
60°	7954.5	5385.2	1065.6	544.2	484.9	431.9	385.0	354.9	350.7	353.8	354.9
62.5°	8820.3	5961.7	1095.8	541.1	495.3	418.3	359.0	327.8	320.5	319.5	317.4
65°	9202.2	5854.5	898.1	526.6	506.8	410.0	338.2	301.8	289.3	285.1	285.1
67.5°	8579.9	4952.3	675.4	506.8	499.5	401.7	318.4	279.9	265.4	257.0	257.0
69°	7995.1	4404.9	606.7	493.3	480.8	388.1	305.9	268.5	250.8	241.4	238.3
70°	7543.4	4028.2	577.5	481.8	463.1	372.5	296.6	260.2	240.4	230.0	227.9
72.5°	6020.0	3160.4	505.7	438.1	394.4	313.2	263.3	234.1	215.4	204.0	200.8
75°	3469.4	1712.9	419.4	380.9	317.4	243.5	222.7	204.0	189.4	179.0	175.9
77.5°	1067.7	661.8	303.9	300.7	233.1	188.4	177.9	170.7	160.3	148.8	146.7
80°	449.5	337.2	206.0	202.9	155.1	131.1	128.0	127.0	122.8	113.4	110.3
82.5°	246.6	190.4	143.6	124.9	93.7	76.0	79.1	80.1	77.0	67.6	61.4
85°	120.7	104.1	69.7	56.2	42.7	27.1	26.0	31.2	29.1	20.8	22.9
87.5°	23.9	29.1	18.7	8.3	4.2	0.0	0.0	0.0	0.0	0.0	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)