

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: P459550

Luminaire Tested: **GALN-SA9D-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64785 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

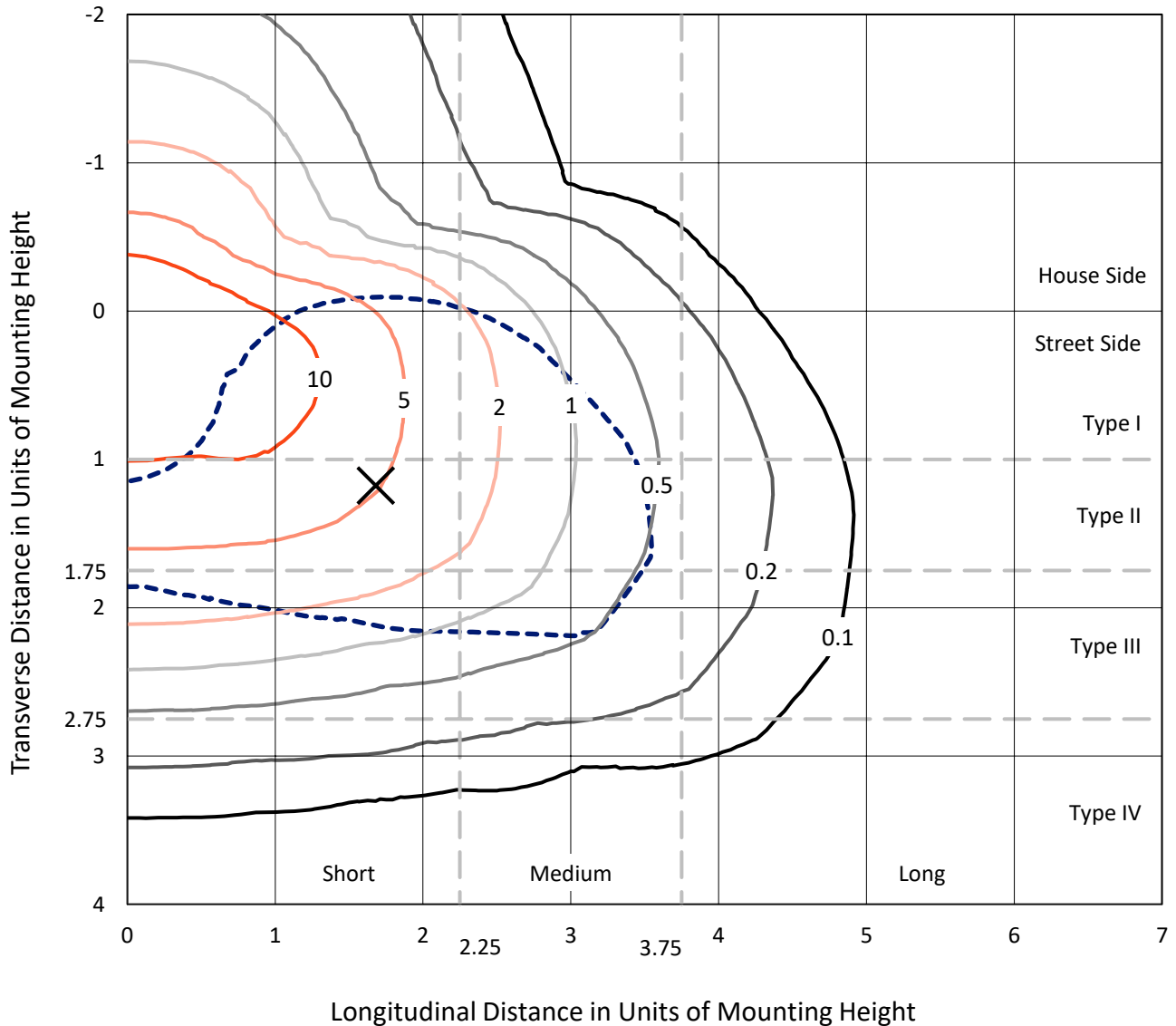
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

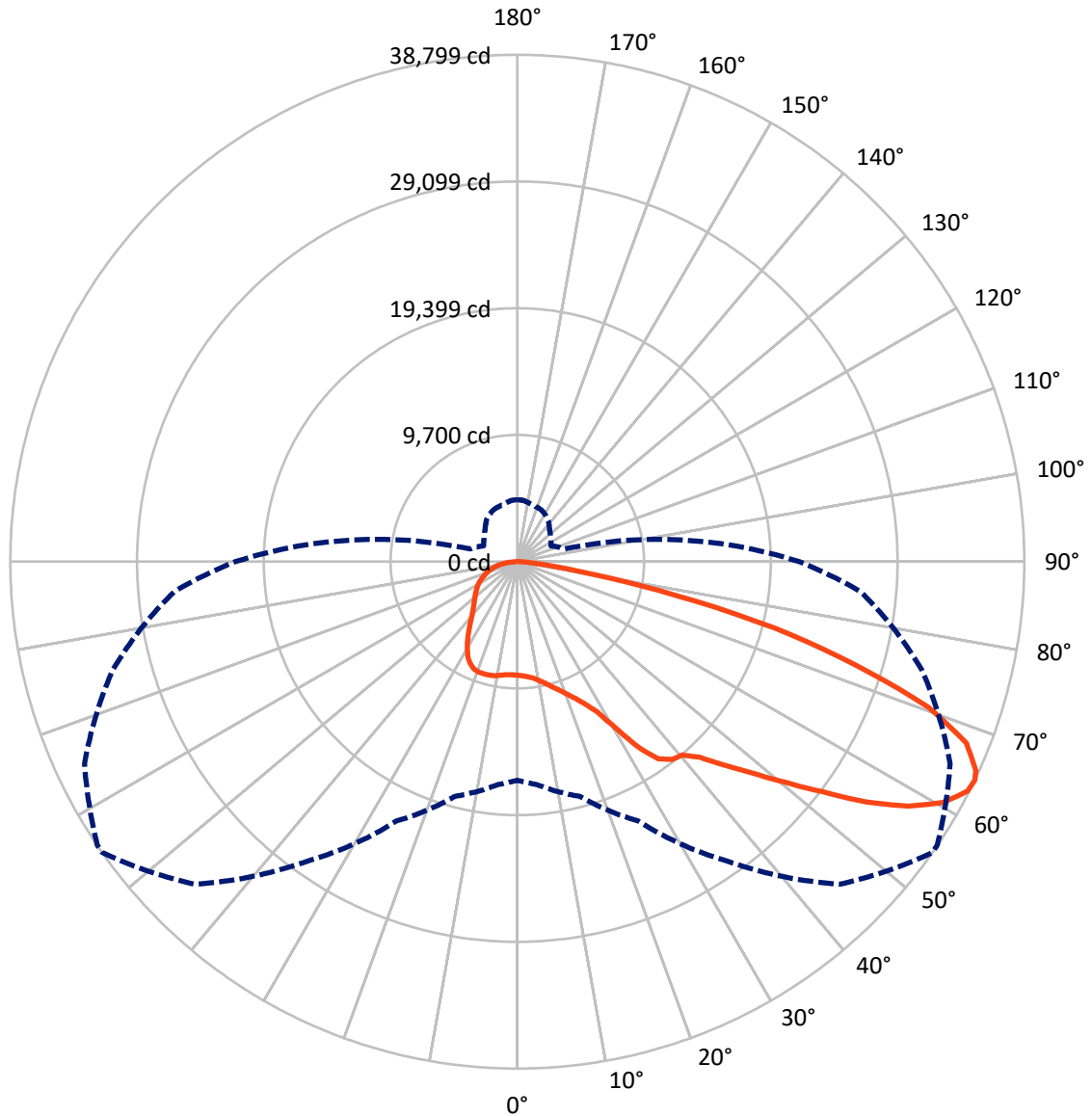
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15737.5	0.0	15737.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	49047.5	0.0	49047.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	64785.0	0.0	64785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	845.5	1.3
10°-20°	2667.9	4.1
20°-30°	4749.5	7.3
30°-40°	7307.6	11.3
40°-50°	10359.2	16.0
50°-60°	14994.6	23.1
60°-70°	15517.8	24.0
70°-80°	7267.0	11.2
80°-90°	1075.8	1.7
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°	64785.0	100.0
0°-180°	64785.0	100.0

**Coefficient of Utilization**



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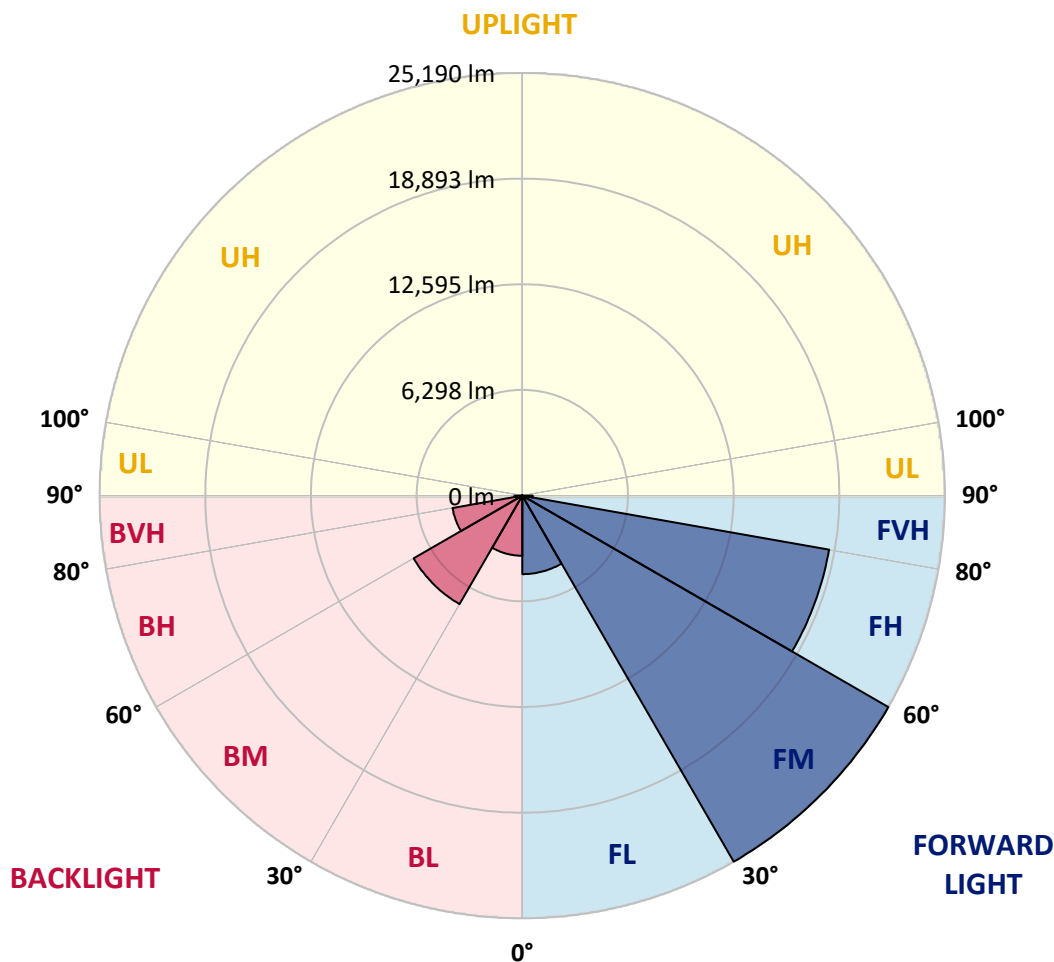
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4678.5	7.2			
FM	(30°-60°)	25190.2	38.9			
FH	(60°-80°)	18562.8	28.7			G5
FVH	(80°-90°)	616.0	1.0			G4/750
BL	(0°-30°)	3584.4	5.5	B4/5000		
BM	(30°-60°)	7471.2	11.5	B4/8500		
BH	(60°-80°)	4222.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	459.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2
2.5°	8789.7	8786.1	8796.9	8786.1	8793.3	8768.0	8757.2	8764.4	8753.6	8735.5	8703.0
5°	8898.0	8894.4	8898.0	8883.6	8890.8	8876.4	8851.1	8858.3	8840.3	8800.5	8753.6
7.5°	9082.2	9067.8	9067.8	9064.1	9049.7	9028.0	9010.0	9002.8	8984.7	8934.1	8861.9
10°	9320.5	9320.5	9324.2	9295.3	9313.3	9273.6	9255.5	9251.9	9190.5	9125.5	9024.4
12.5°	9634.7	9652.8	9641.9	9627.5	9620.3	9605.8	9544.4	9558.9	9490.3	9378.3	9255.5
15°	10024.7	10053.6	10035.6	10028.3	10010.3	9956.1	9930.8	9920.0	9829.7	9667.2	9504.7
17.5°	10541.1	10505.0	10490.6	10472.5	10396.7	10357.0	10313.6	10306.4	10227.0	10035.6	9782.8
20°	10992.5	11043.1	11014.2	10996.1	10920.3	10844.5	10812.0	10801.1	10732.5	10523.1	10118.6
22.5°	11530.6	11541.4	11552.3	11508.9	11472.8	11415.0	11357.3	11339.2	11313.9	11097.3	10602.5
25°	12104.8	12148.1	12112.0	12068.7	12025.3	12021.7	12075.9	12068.7	12057.8	11848.4	11245.3
27.5°	13040.1	13079.8	13090.6	13043.7	12877.6	12892.0	13014.8	13054.5	13220.7	12874.0	12072.3
30°	13567.3	13607.1	13697.3	13874.3	14137.9	14369.0	14665.1	14755.4	14914.3	14260.7	13054.5
32.5°	13892.3	13906.8	14069.3	14397.9	15188.8	16051.8	16857.1	16889.6	16990.8	16073.5	13953.7
35°	14405.1	14416.0	14546.0	14907.1	15835.2	17272.4	18518.3	18558.0	18475.0	16636.9	14372.6
37.5°	15037.1	15066.0	15149.0	15448.8	16557.4	18294.4	19208.0	19179.2	18442.5	17084.7	15112.9
40°	15958.0	15958.0	15860.5	16264.9	17319.4	18879.4	19450.0	19399.4	19204.4	18381.1	16239.6
42.5°	16770.5	16756.0	16987.1	17261.6	18272.7	19782.2	20464.7	20547.8	20869.2	20009.7	17521.6
45°	17828.6	17893.6	18023.6	18521.9	19894.2	21324.2	22205.4	22284.8	22739.8	21927.3	19020.3
47.5°	18897.5	18919.1	19327.2	19991.7	21902.0	23415.1	24137.4	24267.4	24682.6	24169.9	20634.5
50°	19655.8	19861.7	20515.3	21562.6	23971.2	25964.6	26528.0	26683.3	27416.3	26611.0	22515.9
52.5°	20457.5	20659.8	21457.8	23054.0	26347.4	28571.9	29265.3	29370.0	30132.0	29081.1	24440.7
55°	21143.7	21331.4	22237.9	24375.7	28239.7	31233.4	32490.1	32367.3	32732.0	30984.2	25924.9
57.5°	21255.6	21407.3	22548.4	25220.7	29662.5	33515.7	35317.7	35389.9	34967.4	32407.0	27149.1
60°	20388.9	20699.5	22010.3	25130.4	30301.7	35104.6	37426.6	37477.2	36278.3	33136.5	27636.6
62.5°	18854.1	18821.6	20407.0	23678.7	29406.1	35465.7	38668.9	38614.7	36791.0	32786.2	27163.6
64°	16734.4	17124.4	18605.0	21894.8	27961.6	34909.6	38798.9	38770.0	36545.5	32056.7	26358.2
65°	15441.6	15419.9	16882.4	20435.9	26524.4	34071.8	38567.8	38528.0	36032.7	31403.1	25733.5
67.5°	11147.8	11198.4	12642.9	15770.2	21562.6	30796.4	37061.9	36913.8	34010.4	29236.4	23357.3
70°	6753.0	6781.9	7915.8	10461.7	15477.7	24895.7	33407.3	33414.6	30915.6	26000.7	19879.7
72.5°	3557.0	3632.9	4087.9	5940.4	9400.0	17467.4	27102.2	27745.0	26542.4	22190.9	15705.2
75°	1978.9	1989.8	2311.2	2928.7	4795.7	9775.6	20370.9	20555.0	21013.7	17861.1	11613.7
77.5°	1509.5	1531.2	1632.3	1892.3	2610.9	4532.1	12328.7	13253.2	14809.6	12592.3	6626.6
80°	1224.2	1245.9	1332.5	1487.8	1737.0	2148.7	5727.4	6225.7	7926.6	5590.2	2585.6
82.5°	953.4	938.9	1050.9	1152.0	1263.9	1271.1	2350.9	2600.1	3228.4	2405.1	1119.5
85°	707.8	707.8	798.1	776.4	816.1	743.9	1036.4	1144.8	1292.8	1022.0	520.0
87.5°	281.7	310.6	523.6	469.5	364.7	292.5	382.8	404.5	447.8	400.8	216.7
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°	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2	8692.2
2.5°	8706.6	8717.5	8692.2	8674.1	8666.9	8656.1	8645.2	8648.9	8663.3	8677.7	8674.1
5°	8750.0	8753.6	8710.2	8688.6	8674.1	8659.7	8659.7	8670.5	8699.4	8721.1	8721.1
7.5°	8858.3	8858.3	8796.9	8757.2	8735.5	8710.2	8703.0	8706.6	8728.3	8757.2	8760.8
10°	9028.0	9013.6	8934.1	8872.8	8833.0	8771.6	8717.5	8688.6	8699.4	8717.5	8717.5
12.5°	9233.9	9194.2	9093.0	9010.0	8912.5	8796.9	8685.0	8627.2	8623.6	8641.6	8634.4
15°	9454.2	9410.8	9270.0	9118.3	8948.6	8778.9	8645.2	8562.2	8497.2	8479.1	8518.9
17.5°	9710.6	9620.3	9425.3	9215.8	8963.0	8742.7	8533.3	8363.6	8248.0	8215.5	8226.3
20°	10021.1	9901.9	9638.3	9309.7	8952.2	8612.7	8287.7	8060.2	7872.4	7814.7	7821.9
22.5°	10450.9	10245.0	9858.6	9356.7	8861.9	8367.2	7915.8	7619.7	7392.2	7301.9	7356.0
25°	10938.4	10714.5	10068.1	9345.8	8627.2	7973.6	7475.2	7088.8	6883.0	6749.4	6778.2
27.5°	11610.1	11212.8	10292.0	9248.3	8291.3	7493.3	6915.5	6550.7	6363.0	6294.3	6326.8
30°	12469.5	11859.2	10533.9	8984.7	7760.5	6886.6	6352.1	6113.8	6001.8	5915.2	5944.1
32.5°	13090.6	12314.2	10588.1	8540.5	7186.3	6334.1	5969.3	5792.4	5669.6	5586.5	5604.6
35°	13534.8	12700.6	10562.8	7995.2	6586.9	5879.1	5666.0	5521.5	5322.9	5142.4	5109.9
37.5°	14130.7	13184.5	10378.6	7399.4	5994.6	5572.1	5420.4	5153.2	4867.9	4626.0	4615.1
40°	15044.3	13751.5	9985.0	6698.8	5489.0	5344.6	5160.4	4813.7	4506.8	4311.8	4297.3
42.5°	15986.8	14275.1	9450.5	5962.1	5073.8	5106.3	4882.4	4539.3	4351.5	4225.1	4210.7
45°	17138.8	14842.1	8872.8	5322.9	4766.8	4882.4	4640.4	4441.8	4329.8	4246.8	4225.1
47.5°	18384.7	15423.5	8222.7	4748.7	4506.8	4676.5	4539.3	4449.0	4387.6	4329.8	4304.6
50°	19728.1	16073.5	7612.4	4286.5	4272.1	4463.5	4528.5	4496.0	4459.8	4441.8	4420.1
52.5°	21201.4	16738.0	7099.6	3961.5	4066.2	4311.8	4532.1	4557.4	4557.4	4546.5	4532.1
55°	22198.1	17200.2	6579.6	3697.9	3856.8	4189.0	4524.9	4622.4	4658.5	4644.0	4629.6
57.5°	22934.8	17453.0	5926.0	3470.4	3679.8	4069.8	4485.1	4629.6	4665.7	4683.7	4676.5
60°	23086.5	17218.3	5070.1	3232.0	3488.4	3896.5	4340.7	4521.2	4568.2	4680.1	4691.0
62.5°	22404.0	16496.0	4217.9	2997.3	3253.7	3632.9	4145.7	4398.5	4492.3	4665.7	4683.7
64°	21566.2	15687.1	3744.8	2849.2	3102.0	3484.8	4048.2	4366.0	4488.7	4719.9	4734.3
65°	20952.3	15098.5	3448.7	2755.4	3004.5	3387.3	3994.0	4376.8	4521.2	4802.9	4824.6
67.5°	18691.6	13072.6	2852.9	2535.1	2773.4	3221.2	4004.8	4467.1	4514.0	4835.4	4831.8
70°	15466.8	10407.5	2390.6	2332.8	2549.5	3087.6	3961.5	4322.6	4326.2	4539.3	4488.7
72.5°	11581.2	7691.9	2072.8	2123.4	2300.3	2769.8	3741.2	4127.6	4066.2	4095.1	4044.6
75°	7955.5	5088.2	1783.9	1899.5	2040.3	2448.4	3430.7	3748.4	3650.9	3614.8	3578.7
77.5°	4246.8	2813.1	1484.2	1679.2	1773.1	2116.2	2993.7	3300.6	3199.5	3058.7	3011.8
80°	1718.9	1325.3	1195.3	1390.3	1444.5	1704.5	2491.7	2683.1	2607.3	2361.7	2282.3
82.5°	863.1	794.5	938.9	1094.2	1097.8	1217.0	1852.6	2033.1	1863.4	1563.7	1495.0
85°	451.4	465.8	646.4	769.2	678.9	657.2	1112.3	1231.4	1130.3	982.3	884.7
87.5°	162.5	187.8	339.5	335.8	238.3	126.4	245.6	119.2	65.0	39.7	50.6
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)