

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: P532457

Luminaire Tested: **GALN-SA7D-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32769 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

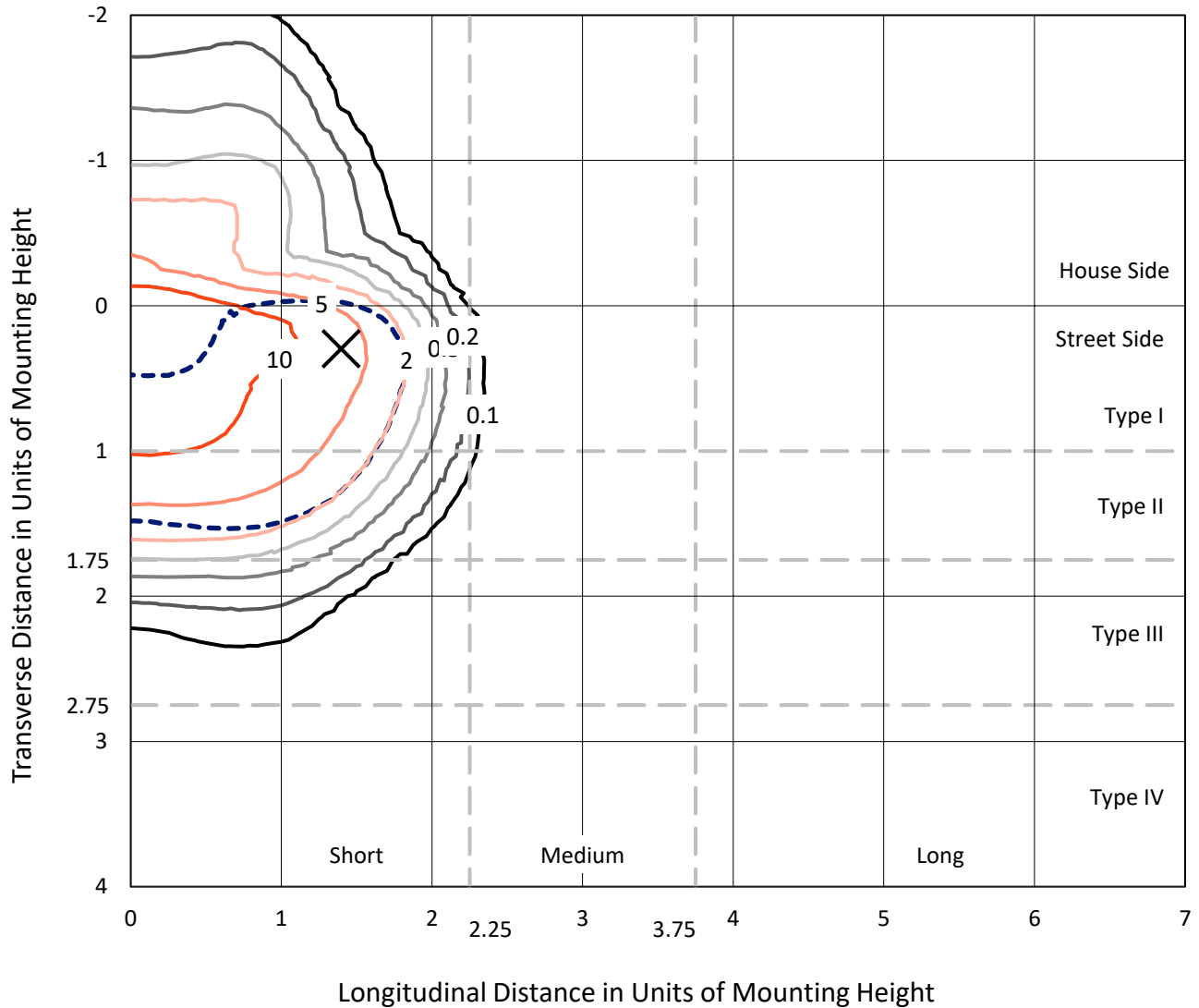
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

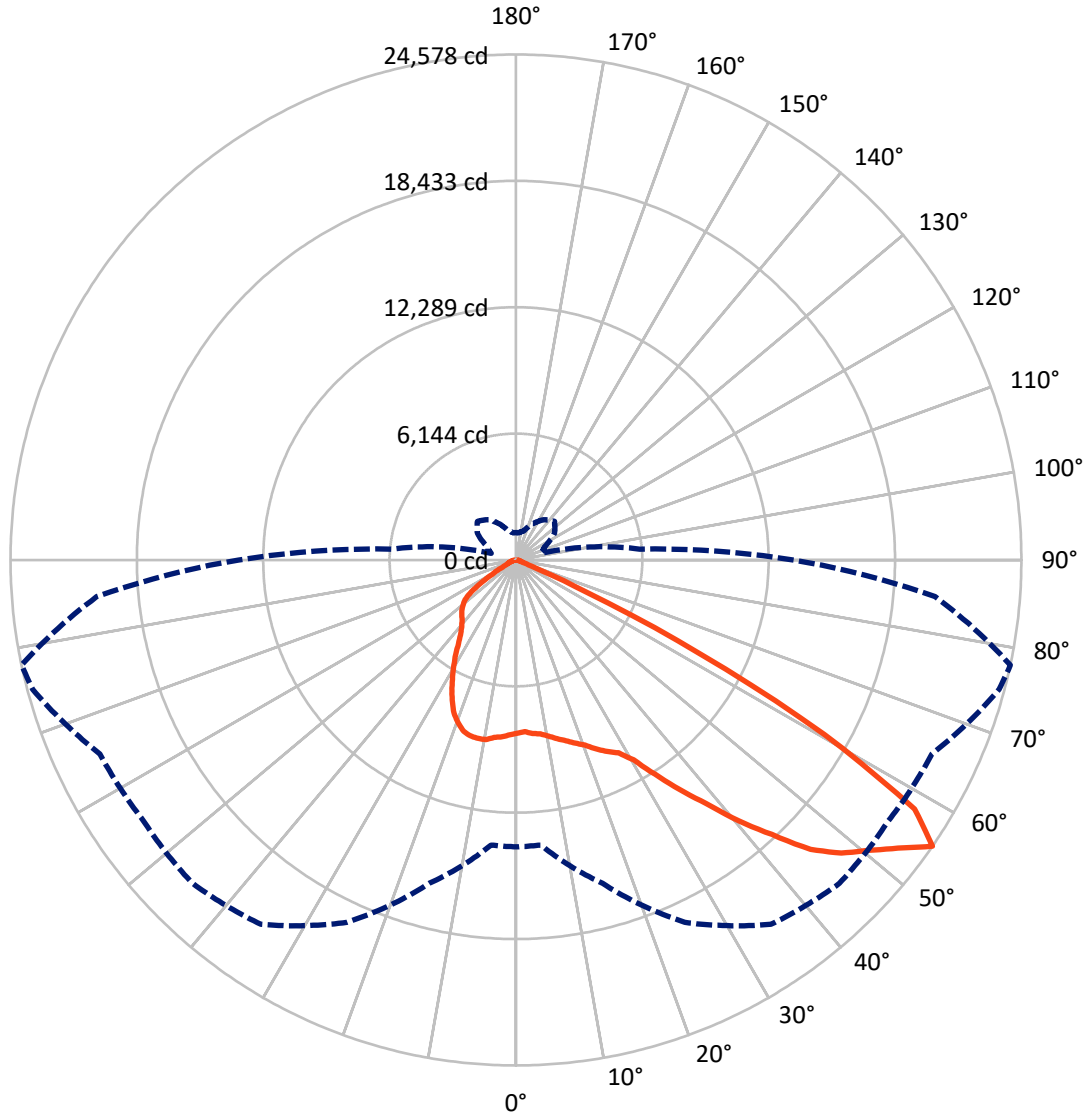
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6086.5	0.0	6086.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26682.5	0.0	26682.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32769.0	0.0	32769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.2	2.3
10°-20°	1988.1	6.1
20°-30°	3484.9	10.6
30°-40°	5746.1	17.5
40°-50°	8361.4	25.5
50°-60°	9474.3	28.9
60°-70°	2708.9	8.3
70°-80°	210.3	0.6
80°-90°	43.8	0.1
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°	32769.0	100.0
0°-180°	32769.0	100.0

**Coefficient of Utilization**



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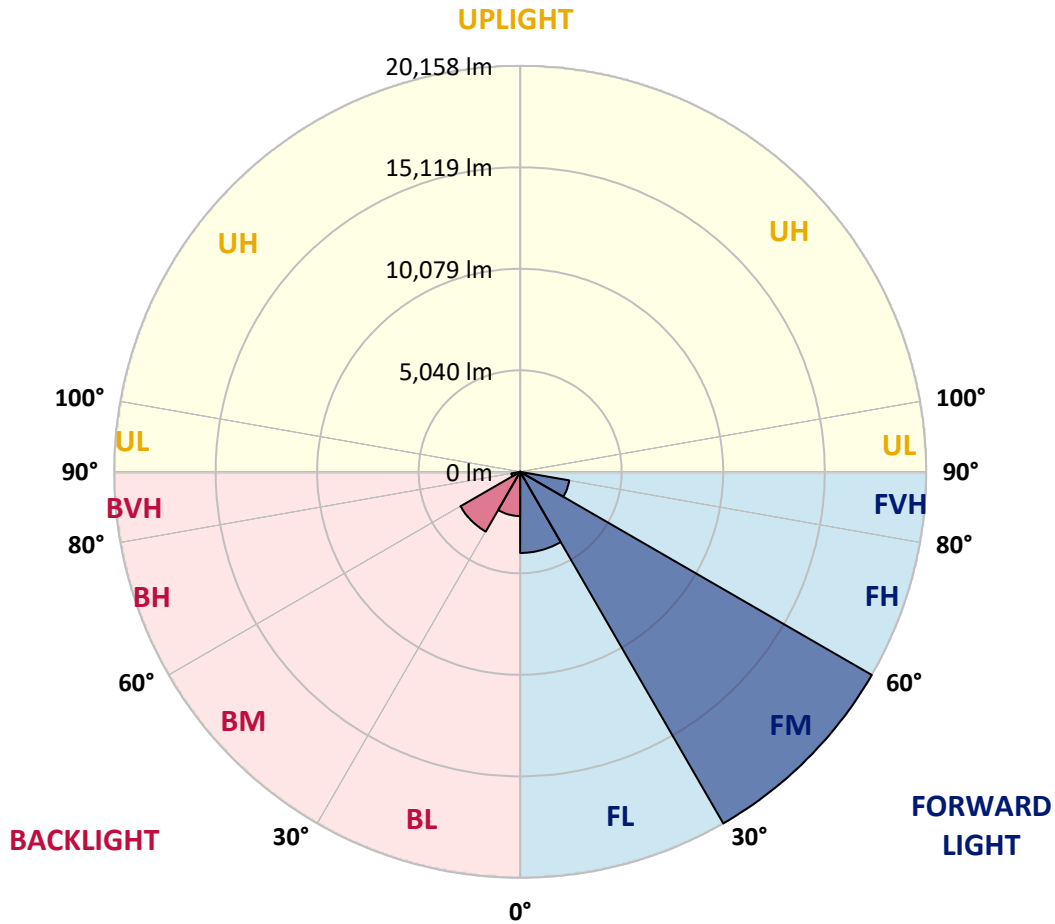
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4028.3	12.3			
FM (30°-60°)	20158.0	61.5			
FH (60°-80°)	2474.9	7.6			G2/5000
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	2196.0	6.7	B3/2500		
BM (30°-60°)	3423.7	10.4	B3/5000		
BH (60°-80°)	444.3	1.4	B1/500		G1/500
BVH (80°-90°)	22.5	0.1			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°	55°	65°	75°	78°	85°
0°	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9
2.5°	7921.1	7997.2	8009.0	8102.7	8096.8	8255.0	8301.9	8307.8	8413.2	8360.5	8495.2
5°	7698.4	7657.4	7639.9	7803.9	7850.8	7991.4	8108.6	8178.9	8395.6	8471.8	8612.4
7.5°	7499.2	7499.2	7511.0	7657.4	7639.9	7821.5	7944.5	8161.3	8477.7	8542.1	8712.0
10°	7305.9	7235.6	7323.5	7475.8	7604.7	7686.7	7944.5	8149.6	8518.7	8706.2	8940.5
12.5°	7206.3	7241.5	7253.2	7364.5	7505.1	7751.2	7891.8	8231.6	8811.6	8922.9	9174.9
15°	7833.2	7762.9	7593.0	7493.4	7610.6	7727.7	8079.3	8424.9	8963.9	9122.1	9403.3
17.5°	8559.7	8501.1	8360.5	8091.0	7827.3	8044.1	8319.5	8635.8	9128.0	9362.3	9778.3
20°	9508.8	9415.1	9274.5	8747.2	8518.7	8284.3	8577.3	8952.2	9397.5	9608.4	10036.1
22.5°	10639.5	10639.5	10323.2	9684.6	9210.0	8987.4	9110.4	9327.2	9696.3	9983.4	10405.2
25°	11817.2	11782.0	11494.9	10832.9	10030.2	9766.6	9907.2	10059.5	10159.1	10317.3	10598.5
27.5°	13164.7	12959.6	12596.4	11864.0	11155.1	10645.4	10797.7	10663.0	10539.9	10622.0	11026.2
30°	14078.7	14207.5	13744.7	13041.6	12373.7	11805.4	11834.7	11717.6	11155.1	11272.3	11512.5
32.5°	15027.8	15109.8	14852.0	14465.3	13797.4	13135.4	12895.2	12795.6	12373.7	12426.5	12192.1
35°	15818.7	15976.9	15748.4	15578.5	15385.2	14852.0	14190.0	14512.2	13832.6	13703.7	13094.4
37.5°	16545.2	16498.3	16767.8	16592.1	16551.1	16176.1	15449.6	15514.1	15057.1	15027.8	14324.7
40°	17195.5	17207.2	17576.3	17658.4	17494.3	16826.4	15771.8	16281.6	16650.7	16685.8	15783.6
42.5°	17734.5	17892.7	18209.1	18871.1	18625.1	17511.9	16105.8	16662.4	18033.3	18250.1	17166.2
45°	18203.2	18525.5	18918.0	19509.7	19369.1	18484.5	16937.7	17447.5	19509.7	20078.0	18466.9
47.5°	18232.5	18654.4	19082.1	19960.9	20136.6	19005.9	17799.0	18689.5	20681.5	21296.7	19416.0
50°	18115.4	18338.0	19193.4	20148.4	20546.8	19855.4	19005.9	19732.4	21818.1	22204.8	19896.4
52.5°	16726.8	16896.7	18613.4	20324.1	21285.0	20816.3	20605.3	21185.4	22978.1	23265.2	20347.6
55°	13943.9	13914.6	16275.7	19439.4	21624.8	22239.9	22111.0	22316.1	24319.8	24577.6	20458.9
57.5°	9538.1	10071.2	12110.1	16187.8	19544.9	21906.0	22040.7	21700.9	22755.5	22855.1	17834.1
60°	5144.0	5366.6	7007.1	10803.6	14881.3	17851.7	18203.2	17588.1	17506.0	17224.8	12731.1
62.5°	2044.7	2156.0	3087.6	5349.1	8108.6	10850.5	11606.2	11354.3	10815.3	10077.1	6591.1
65°	972.6	1042.9	1535.0	2501.7	3597.3	4523.0	5278.8	5513.1	4066.0	3661.7	2173.6
67.5°	662.0	714.8	1119.0	1429.5	1283.1	1341.7	1745.9	1622.9	955.0	814.4	603.5
70°	503.9	539.0	896.4	972.6	574.2	404.3	451.1	421.8	392.5	398.4	392.5
72.5°	357.4	386.7	656.2	574.2	251.9	187.5	240.2	287.1	287.1	287.1	281.2
75°	216.8	246.1	380.8	222.6	99.6	99.6	152.3	193.3	205.1	210.9	199.2
77.5°	111.3	140.6	128.9	64.4	64.4	76.2	111.3	134.8	146.5	146.5	140.6
80°	23.4	23.4	23.4	35.2	64.4	82.0	111.3	123.0	140.6	140.6	128.9
82.5°	0.0	5.9	17.6	35.2	58.6	76.2	105.5	123.0	140.6	146.5	134.8
85°	0.0	5.9	11.7	23.4	41.0	46.9	41.0	35.2	35.2	35.2	35.2
87.5°	0.0	0.0	5.9	5.9	5.9	11.7	11.7	11.7	11.7	11.7	11.7
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°	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9	8424.9
2.5°	8507.0	8524.5	8495.2	8489.4	8465.9	8536.2	8366.3	8325.3	8430.8	8331.2	8354.6
5°	8618.3	8659.3	8606.6	8518.7	8389.8	8190.6	8020.7	7798.0	7692.6	7616.4	7604.7
7.5°	8700.3	8729.6	8676.9	8395.6	8009.0	7505.1	7130.1	6854.8	6638.0	6573.6	6468.1
10°	9034.2	9040.1	8776.5	8155.4	7399.6	6737.6	6163.4	5741.6	5524.8	5390.1	5331.5
12.5°	9256.9	9245.2	8712.0	7680.9	6673.2	5794.3	5138.2	4628.4	4429.2	4364.8	4323.8
15°	9538.1	9473.7	8559.7	7194.6	5735.7	4786.6	4194.9	3843.4	3825.8	3784.8	3825.8
17.5°	9760.7	9579.1	8337.0	6309.9	4839.4	3943.0	3556.3	3579.7	3626.6	3667.6	3673.5
20°	10124.0	9749.0	7827.3	5536.5	4007.4	3380.5	3374.7	3480.1	3597.3	3644.2	3691.0
22.5°	10399.3	9819.3	7282.5	4710.5	3327.8	3152.0	3251.6	3409.8	3497.7	3544.6	3614.9
25°	10498.9	9626.0	6556.0	3884.4	2999.7	3046.6	3198.9	3304.4	3415.7	3468.4	3439.1
27.5°	10598.5	9526.4	5688.9	3198.9	2823.9	2976.3	3105.2	3210.6	3245.8	3316.1	3362.9
30°	10838.7	9180.7	4909.7	2765.3	2736.1	2929.4	3023.1	3058.3	3152.0	3193.0	3193.0
32.5°	11032.1	9046.0	4083.6	2560.3	2724.3	2952.8	2964.5	2964.5	2976.3	2947.0	2935.3
35°	11430.5	8583.1	3345.4	2437.3	2718.5	2958.7	2988.0	2888.4	2618.9	2513.4	2484.1
37.5°	11922.6	8284.3	2800.5	2408.0	2759.5	3029.0	3075.9	2700.9	2349.4	2179.5	2150.2
40°	12520.2	8073.4	2443.1	2396.2	2853.2	3193.0	3052.4	2554.4	2097.4	1851.4	1839.7
42.5°	13217.4	7880.1	2202.9	2390.4	2970.4	3362.9	3029.0	2431.4	1839.7	1675.6	1699.0
45°	13774.0	7774.6	2038.9	2349.4	3011.4	3462.5	3046.6	2214.6	1734.2	1628.7	1640.5
47.5°	14207.5	7552.0	1904.1	2279.1	3005.6	3497.7	2888.4	2126.7	1681.5	1710.8	1740.1
50°	14219.3	7253.2	1734.2	2126.7	2917.7	3433.2	2706.8	2044.7	1669.8	1792.8	1851.4
52.5°	14061.1	6831.3	1552.6	1910.0	2712.6	3210.6	2542.7	2009.6	1617.0	1605.3	1675.6
55°	13498.6	6040.4	1247.9	1546.7	2290.8	2648.2	2396.2	1945.1	1458.8	1324.1	1335.8
57.5°	10909.1	4329.6	919.8	1107.3	1622.9	1939.3	2161.9	1915.8	1312.4	1124.9	1130.7
60°	6755.2	2454.8	673.8	755.8	1001.9	1177.6	1751.8	1781.1	1171.8	949.1	937.4
62.5°	3468.4	1212.8	521.4	533.1	615.2	691.3	1201.1	1494.0	1060.4	902.3	902.3
65°	1160.0	597.6	457.0	410.1	410.1	427.7	726.5	1037.0	896.4	755.8	755.8
67.5°	498.0	445.3	398.4	357.4	328.1	310.5	410.1	603.5	667.9	574.2	550.7
70°	386.7	375.0	345.7	298.8	257.8	234.4	240.2	310.5	380.8	369.1	357.4
72.5°	287.1	287.1	275.4	234.4	199.2	169.9	158.2	164.0	181.6	187.5	193.3
75°	199.2	205.1	205.1	181.6	146.5	123.0	105.5	87.9	70.3	58.6	52.7
77.5°	134.8	140.6	152.3	134.8	111.3	82.0	64.4	46.9	29.3	11.7	11.7
80°	117.2	134.8	146.5	134.8	117.2	87.9	64.4	35.2	17.6	0.0	0.0
82.5°	123.0	134.8	152.3	128.9	111.3	82.0	64.4	41.0	17.6	5.9	0.0
85°	29.3	29.3	35.2	41.0	52.7	58.6	46.9	29.3	17.6	5.9	0.0
87.5°	11.7	11.7	11.7	11.7	11.7	5.9	5.9	5.9	5.9	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)