

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: P533457

Luminaire Tested: **GALN-SA8D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26804 lumens  
Efficiency: N/A  
Efficacy: 54.4 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

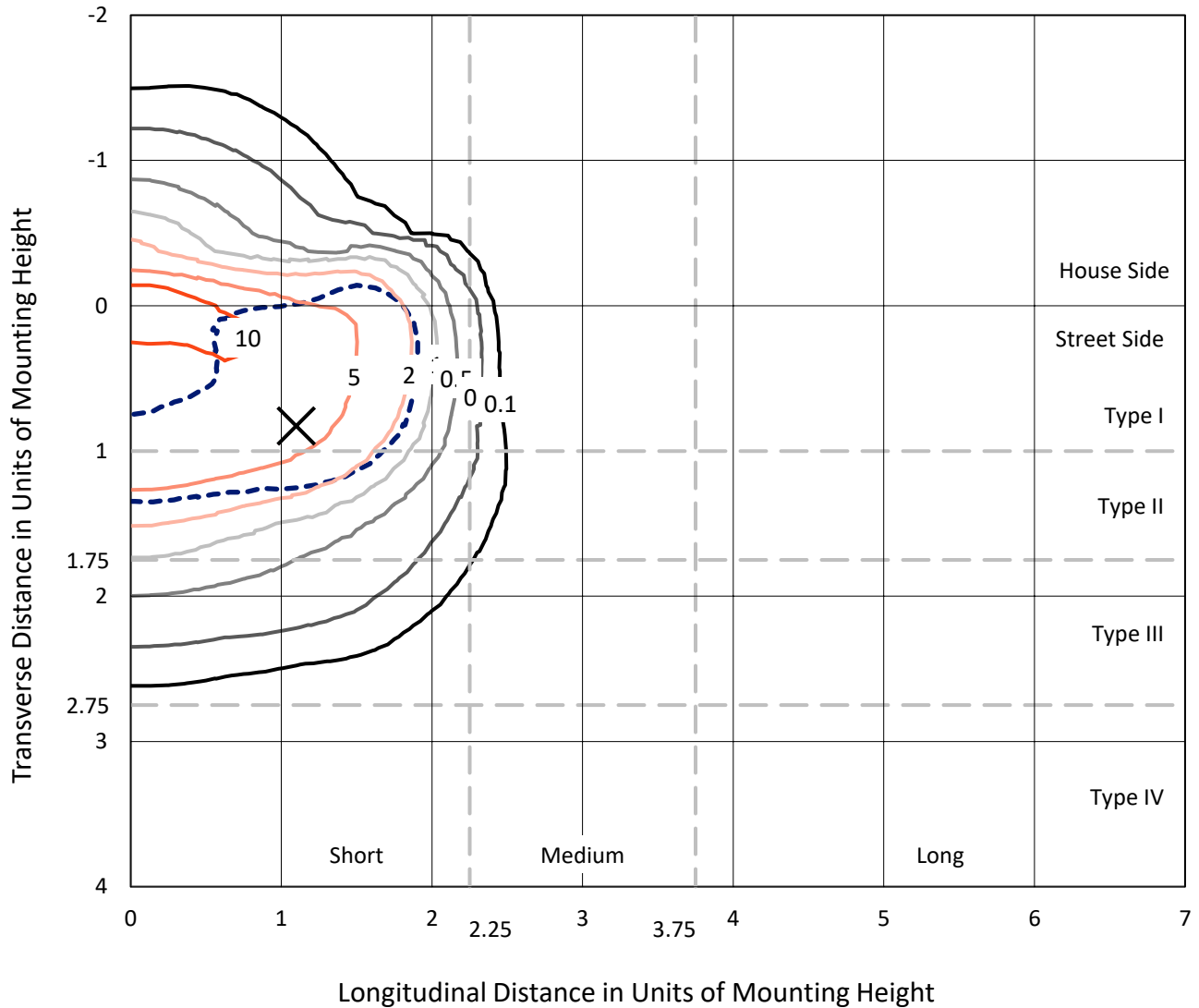
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

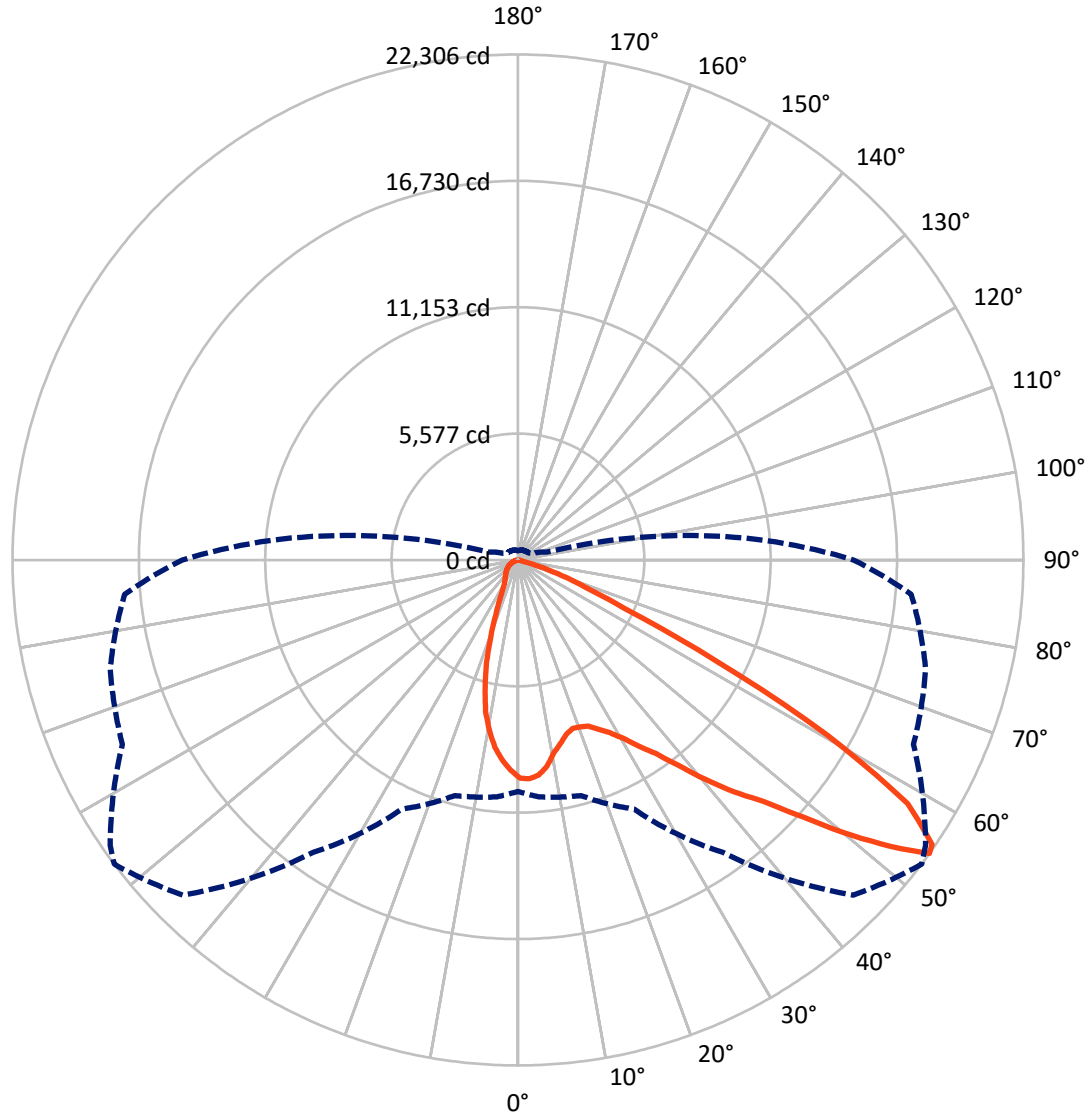
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4434.8	0.0	4434.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	22369.2	0.0	22369.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26804.0	0.0	26804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.0	3.1
10°-20°	1893.8	7.1
20°-30°	2691.5	10.0
30°-40°	4153.7	15.5
40°-50°	6512.6	24.3
50°-60°	7565.3	28.2
60°-70°	2858.6	10.7
70°-80°	271.8	1.0
80°-90°	30.6	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°	26804.0	100.0
0°-180°	26804.0	100.0

**Coefficient of Utilization**



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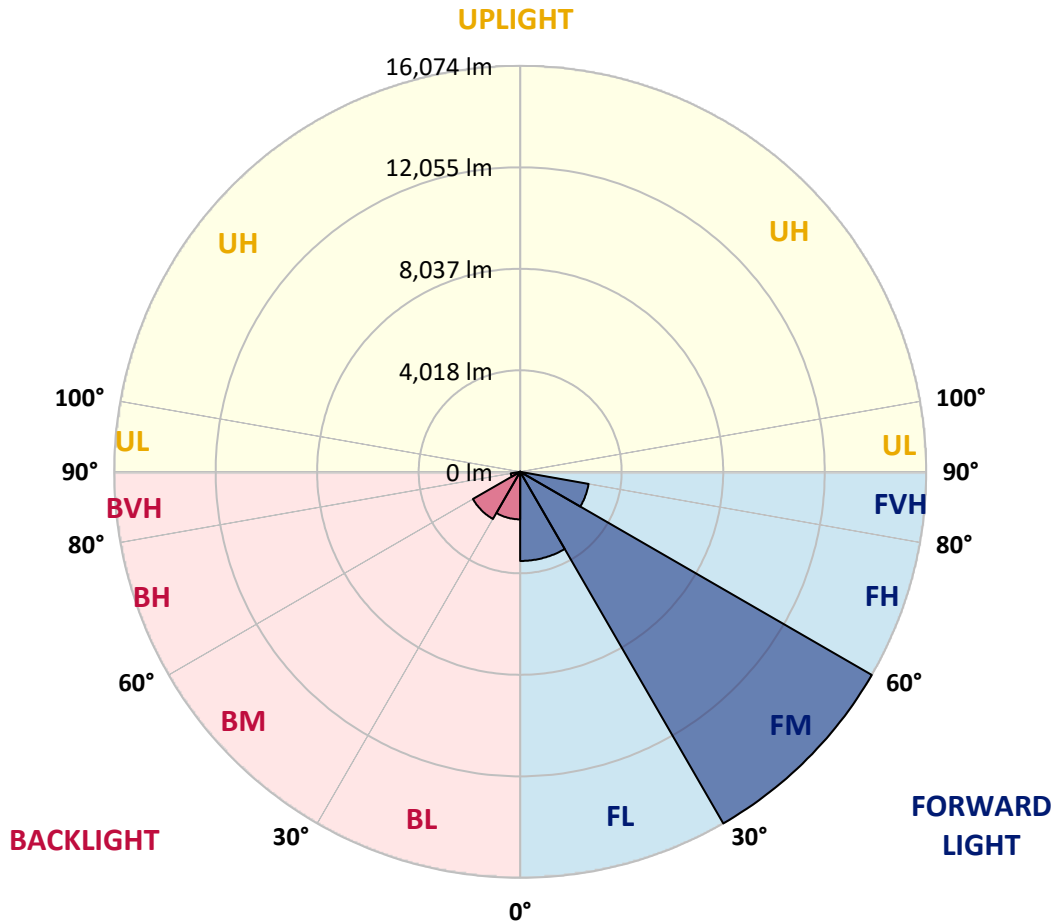
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3529.4	13.2			
FM (30°-60°)	16073.5	60.0			
FH (60°-80°)	2750.5	10.3			G2/5000
FVH (80°-90°)	15.8	0.1			G1/100
BL (0°-30°)	1881.9	7.0	B3/2500		
BM (30°-60°)	2158.1	8.1	B2/2500		
BH (60°-80°)	380.0	1.4	B1/500		G1/500
BVH (80°-90°)	14.8	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°	53°	55°	65°	75°	85°
0°	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5
2.5°	9577.6	9492.7	9577.6	9587.6	9647.5	9702.4	9667.5	9747.4	9702.4	9652.5	9637.5
5°	8803.6	8918.5	8923.5	9103.2	9063.3	9392.8	9537.7	9497.7	9742.4	9727.4	9692.5
7.5°	8109.5	8064.6	8124.5	8334.2	8598.9	8978.4	9188.1	9183.1	9532.7	9782.3	9757.4
10°	7465.3	7460.3	7585.2	7750.0	7974.7	8374.2	8663.8	8808.6	9352.9	9732.4	9787.3
12.5°	7030.9	7010.9	7145.8	7280.6	7635.1	7944.7	8314.2	8384.2	9008.3	9557.6	9647.5
15°	6746.3	6791.2	6801.2	7060.9	7285.6	7695.0	7984.7	8129.5	8848.6	9417.8	9762.4
17.5°	6696.3	6756.3	6761.3	6976.0	7215.7	7560.2	7814.9	8009.6	8713.7	9487.7	9767.4
20°	6796.2	6761.3	6791.2	6926.0	7160.7	7490.3	7859.8	7924.7	8668.8	9522.7	9822.3
22.5°	7080.8	7070.9	6995.9	7105.8	7270.6	7615.1	7964.7	8064.6	8798.6	9702.4	9867.2
25°	7395.4	7450.4	7380.5	7365.5	7480.3	7819.9	8284.3	8414.1	9233.1	10027.0	10007.1
27.5°	7984.7	7929.7	7929.7	7859.8	7829.9	7994.7	8628.8	8843.6	9717.4	10446.5	10166.8
30°	8548.9	8608.9	8563.9	8588.9	8389.1	8374.2	9118.2	9382.9	10576.3	11085.7	10506.4
32.5°	9442.8	9362.9	9437.8	9372.9	9108.2	8838.6	9782.3	10057.0	11615.0	11819.7	11015.7
35°	10186.8	10151.9	10471.5	10461.5	10032.0	9767.4	10486.4	10895.9	12339.0	12698.6	11615.0
37.5°	11245.5	11180.5	11545.1	11719.8	11335.3	10940.8	11495.1	11969.5	13013.2	13402.7	12229.2
40°	12334.0	12498.8	12988.2	13277.8	12868.4	12344.0	12728.5	12873.3	13462.6	13862.1	12648.6
42.5°	13712.3	13952.0	14451.3	14701.0	14666.0	14096.8	13981.9	13976.9	13787.2	13732.2	12958.2
45°	15035.5	14945.7	15714.7	16259.0	16698.4	16533.6	15190.3	15040.5	14301.5	13927.0	13038.1
47.5°	15614.8	15584.8	16109.2	17077.9	18576.0	18780.7	16948.1	16368.8	15170.4	14745.9	13472.6
50°	14865.8	15020.6	15539.9	16613.5	18910.5	20473.5	19105.3	18326.3	16184.1	15744.6	14501.2
52.5°	12418.9	12523.8	13018.2	14381.4	17772.0	21472.2	21172.6	20723.2	18046.7	17317.6	16293.9
54°	10211.8	10491.4	10761.1	12129.3	15744.6	20917.9	22306.1	21961.6	19260.1	18625.9	17422.5
55°	8893.5	9058.3	9253.0	10616.3	14341.4	19979.2	22176.3	22206.3	20074.0	19035.4	18181.5
57.5°	6496.6	6611.4	6411.7	7015.9	9847.3	16224.0	20283.8	21092.7	21172.6	19649.6	18645.9
60°	4963.6	5013.5	4788.8	4883.7	6122.1	11135.6	15689.7	16663.4	19100.3	17172.8	15794.6
62.5°	3850.0	3860.0	3855.0	4019.8	4219.5	6551.5	9812.3	10676.2	13168.0	12194.2	10726.1
65°	2836.3	2791.4	2871.3	3370.6	3600.3	4119.7	5168.3	5797.5	7155.7	6042.2	4319.4
67.5°	1837.6	1852.6	1932.5	2506.8	3086.0	3160.9	3180.9	3130.9	3135.9	1727.8	1083.6
70°	1103.6	1128.5	1103.6	1418.2	2207.1	2267.1	2072.3	2022.4	1578.0	409.5	404.5
72.5°	654.2	619.2	554.3	609.2	918.8	1098.6	988.7	983.7	619.2	239.7	239.7
75°	274.6	249.7	204.7	184.8	244.7	234.7	234.7	209.7	164.8	159.8	149.8
77.5°	54.9	54.9	39.9	44.9	59.9	69.9	84.9	84.9	99.9	99.9	94.9
80°	0.0	5.0	15.0	30.0	44.9	64.9	74.9	74.9	84.9	84.9	69.9
82.5°	0.0	5.0	15.0	30.0	39.9	59.9	74.9	74.9	84.9	89.9	74.9
85°	0.0	5.0	15.0	25.0	39.9	49.9	49.9	44.9	35.0	30.0	20.0
87.5°	0.0	0.0	5.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5	9627.5
2.5°	9672.5	9667.5	9547.6	9352.9	9308.0	9143.2	9123.2	9023.3	9078.3	8893.5	8873.5
5°	9592.6	9532.7	9387.9	9263.0	8898.5	8638.8	8434.1	8184.4	8039.6	8064.6	7969.7
7.5°	9707.4	9552.6	9298.0	8863.5	8419.1	7964.7	7720.0	7210.7	7025.9	6751.3	6711.3
10°	9587.6	9472.7	9078.3	8359.2	7745.0	7090.8	6516.6	5952.3	5522.9	5338.1	5298.1
12.5°	9577.6	9377.9	8718.7	7919.8	7030.9	6092.1	5258.2	4554.1	4129.7	3890.0	3835.0
15°	9422.8	9183.1	8314.2	7240.6	6012.2	4843.7	3934.9	3255.8	2931.2	2791.4	2831.3
17.5°	9437.8	9078.3	7909.8	6521.6	5008.5	3555.4	2686.5	2337.0	2252.1	2287.0	2287.0
20°	9422.8	8843.6	7420.4	5692.6	3835.0	2466.8	1972.4	1847.6	1902.5	2012.4	1987.4
22.5°	9342.9	8733.7	6971.0	4818.8	2821.4	1827.6	1583.0	1587.9	1672.8	1807.7	1837.6
25°	9402.8	8489.0	6401.7	3934.9	2057.3	1458.1	1373.2	1408.2	1498.1	1597.9	1617.9
27.5°	9357.9	8314.2	5807.5	3056.0	1503.1	1253.4	1248.4	1288.3	1328.3	1403.2	1403.2
30°	9407.8	8154.5	5223.2	2272.1	1238.4	1148.5	1128.5	1158.5	1198.4	1213.4	1208.4
32.5°	9592.6	8034.6	4549.1	1697.8	1093.6	1048.6	1048.6	1048.6	1043.6	1063.6	1068.6
35°	9997.1	8054.6	3954.9	1313.3	998.7	963.8	948.8	928.8	918.8	928.8	933.8
37.5°	10436.5	8044.6	3340.7	1118.6	928.8	898.8	863.9	833.9	828.9	838.9	823.9
40°	10631.2	8139.5	2771.4	1003.7	863.9	828.9	774.0	749.0	754.0	764.0	754.0
42.5°	10895.9	8169.4	2401.9	913.8	804.0	749.0	714.1	684.1	679.1	694.1	689.1
45°	10890.9	7999.7	2012.4	863.9	749.0	689.1	644.2	619.2	619.2	629.2	634.2
47.5°	11210.5	7974.7	1727.8	818.9	709.1	649.2	594.2	574.3	569.3	569.3	559.3
50°	11954.5	8324.2	1508.0	769.0	659.1	604.2	559.3	534.3	514.3	504.3	499.4
52.5°	13407.7	9412.8	1338.3	709.1	604.2	559.3	519.3	499.4	474.4	449.4	444.4
54°	14815.8	10536.4	1328.3	659.1	559.3	529.3	494.4	484.4	454.4	419.5	409.5
55°	15450.0	11190.5	1363.2	619.2	529.3	509.3	479.4	469.4	439.4	399.5	394.5
57.5°	15974.3	11445.2	1343.3	514.3	479.4	474.4	449.4	434.4	399.5	344.6	334.6
60°	12858.4	8653.8	963.8	454.4	439.4	429.4	409.5	399.5	354.5	294.6	289.6
62.5°	8124.5	4978.6	614.2	399.5	384.5	369.5	344.6	334.6	294.6	234.7	219.7
65°	3460.5	2062.3	414.5	354.5	329.6	304.6	284.6	269.7	234.7	174.8	169.8
67.5°	898.8	734.1	344.6	309.6	274.6	239.7	224.7	199.7	159.8	119.8	114.9
70°	404.5	369.5	289.6	259.7	219.7	184.8	164.8	139.8	104.9	79.9	74.9
72.5°	239.7	234.7	219.7	194.7	164.8	139.8	119.8	94.9	69.9	44.9	44.9
75°	149.8	144.8	149.8	134.8	114.9	104.9	89.9	64.9	39.9	20.0	20.0
77.5°	89.9	89.9	89.9	84.9	79.9	79.9	64.9	39.9	20.0	5.0	5.0
80°	69.9	69.9	74.9	69.9	69.9	69.9	54.9	30.0	10.0	0.0	0.0
82.5°	69.9	74.9	84.9	79.9	69.9	59.9	49.9	30.0	10.0	0.0	0.0
85°	20.0	15.0	25.0	35.0	49.9	44.9	35.0	25.0	10.0	0.0	0.0
87.5°	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	5.0	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)