

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: P530337

Luminaire Tested: **GALN-SA5C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530337  
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-SA5C-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 20550 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

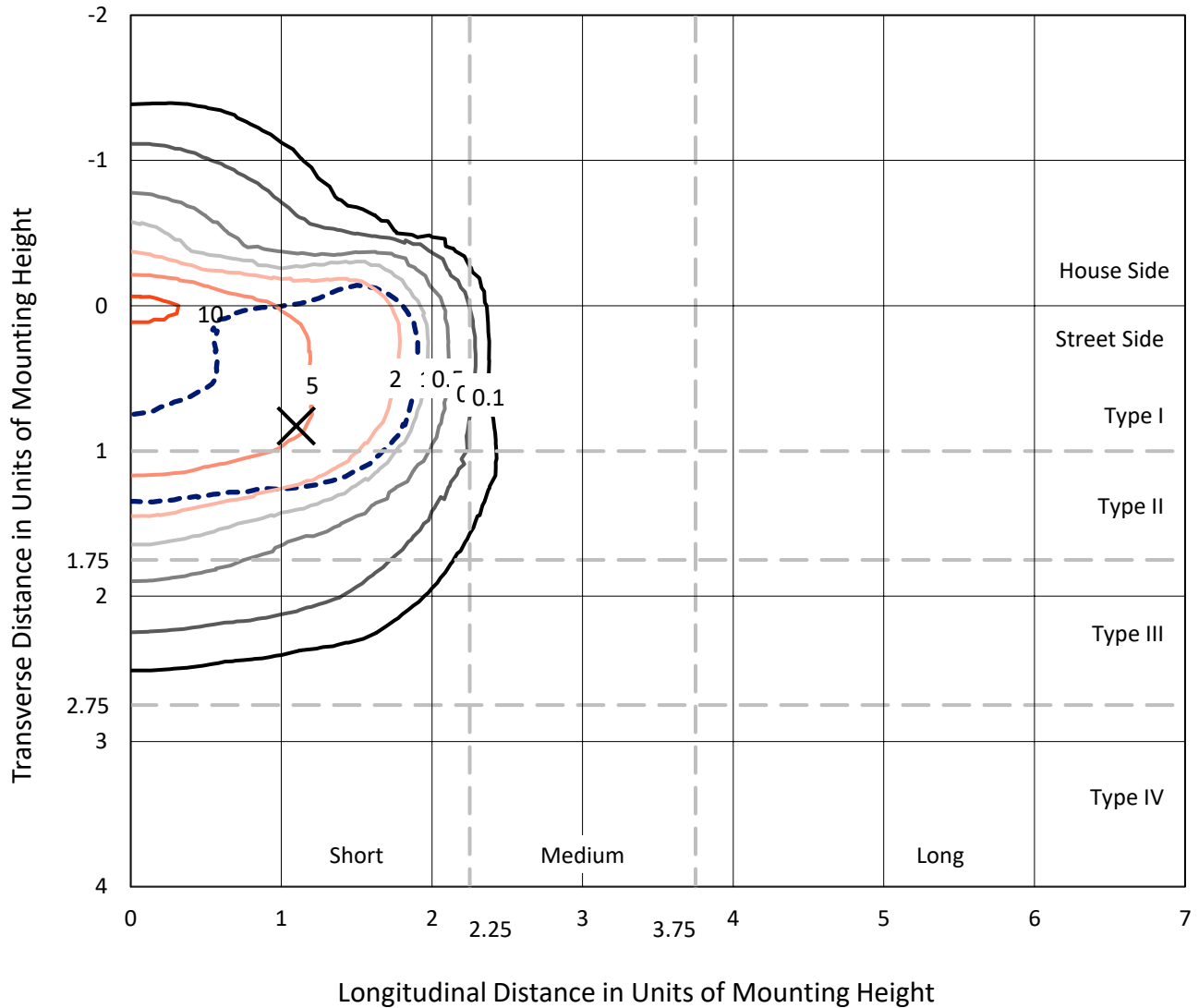
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

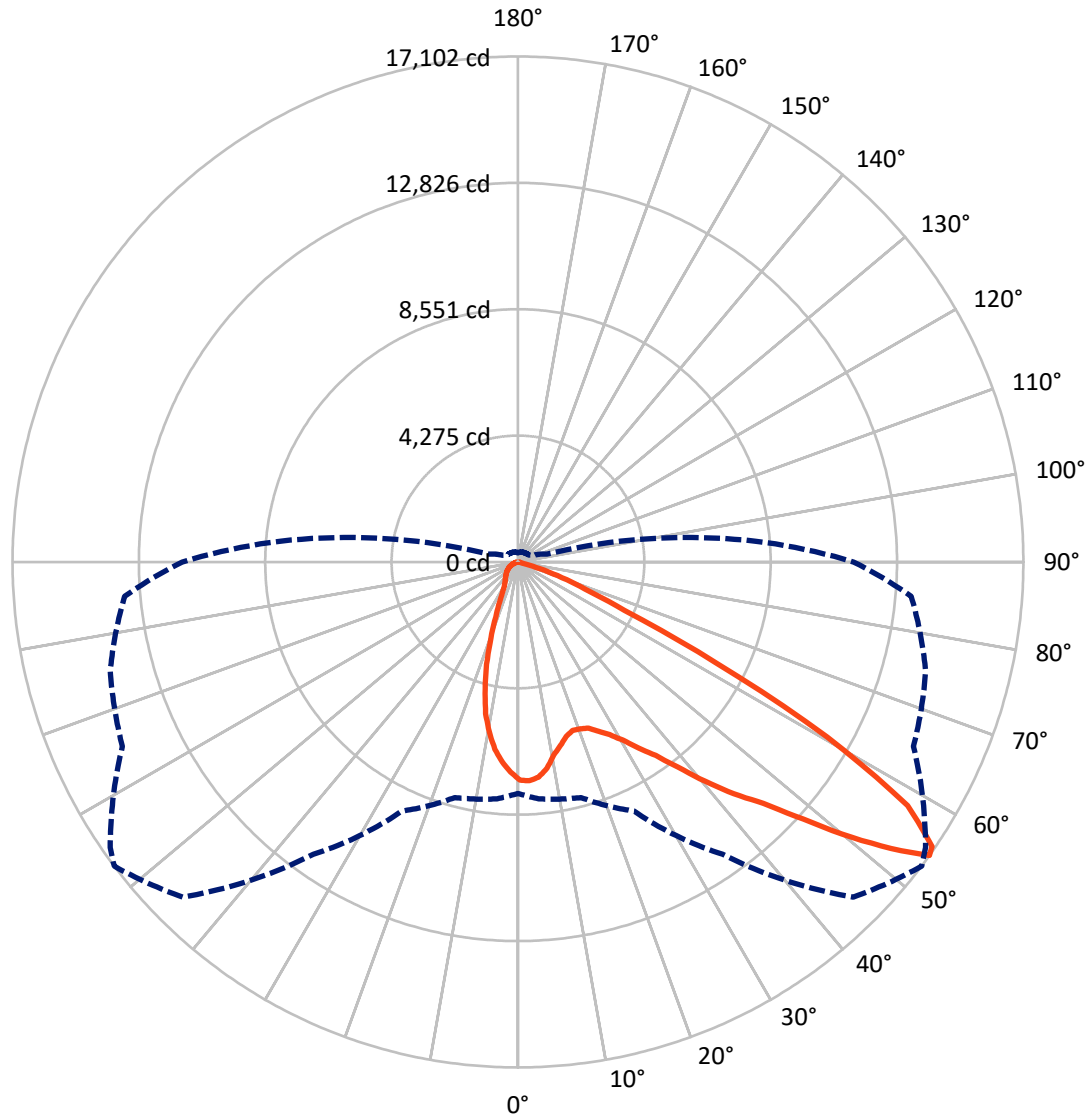
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	3400.1	0.0	3400.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17150.0	0.0	17150.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20550.0	0.0	20550.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	633.3	3.1
10°-20°	1451.9	7.1
20°-30°	2063.5	10.0
30°-40°	3184.5	15.5
40°-50°	4993.1	24.3
50°-60°	5800.1	28.2
60°-70°	2191.6	10.7
70°-80°	208.4	1.0
80°-90°	23.5	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°	20550.0	100.0
0°-180°	20550.0	100.0

**Coefficient of Utilization**

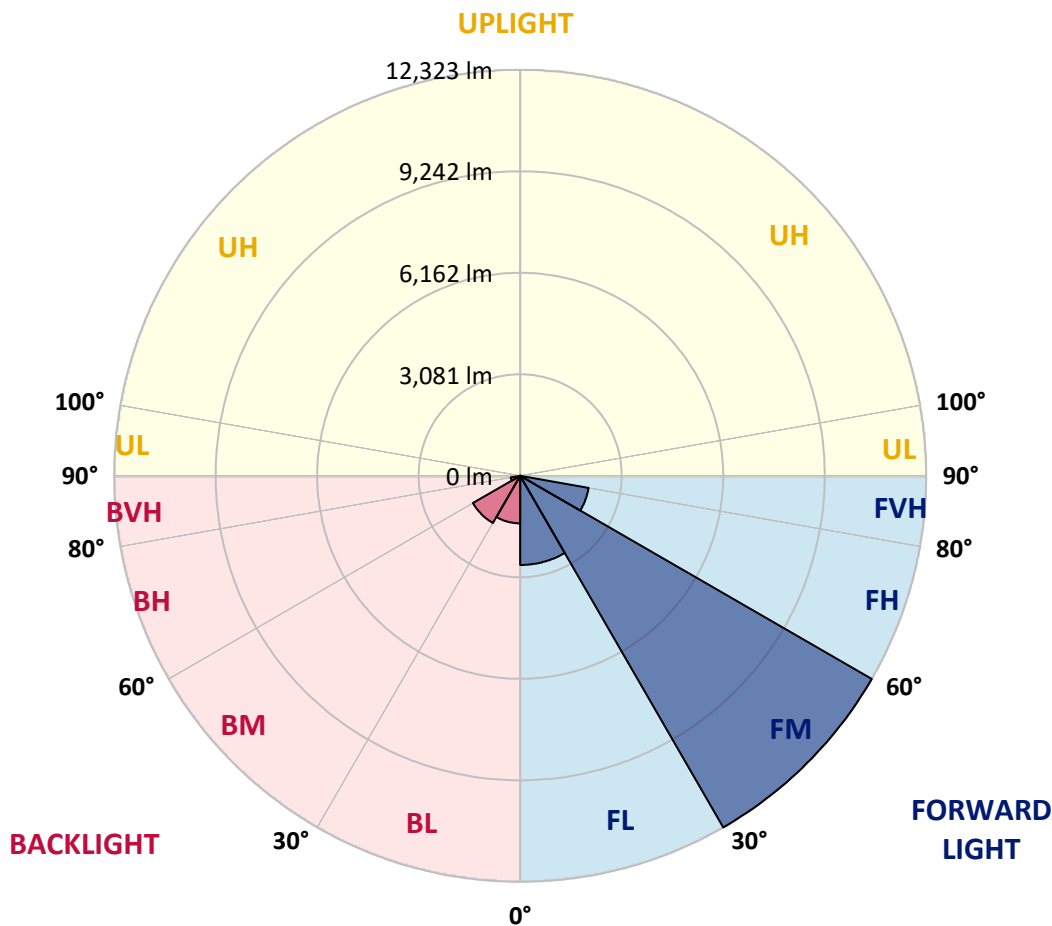


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2705.9	13.2			
FM (30°-60°)	12323.2	60.0			
FH (60°-80°)	2108.7	10.3			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1442.8	7.0	B3/2500		
BM (30°-60°)	1654.6	8.1	B2/2500		
BH (60°-80°)	291.3	1.4	B1/500		G1/500
BVH (80°-90°)	11.3	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°	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2
2.5°	7342.9	7277.8	7342.9	7350.6	7396.5	7438.6	7411.8	7473.1	7438.6	7400.4	7388.9
5°	6749.5	6837.6	6841.4	6979.2	6948.6	7201.3	7312.3	7281.7	7469.3	7457.8	7431.0
7.5°	6217.4	6182.9	6228.9	6389.7	6592.6	6883.5	7044.3	7040.5	7308.5	7499.9	7480.8
10°	5723.5	5719.7	5815.4	5941.7	6114.0	6420.3	6642.3	6753.4	7170.6	7461.6	7503.7
12.5°	5390.4	5375.1	5478.5	5581.9	5853.7	6091.0	6374.3	6427.9	6906.5	7327.6	7396.5
15°	5172.2	5206.7	5214.3	5413.4	5585.7	5899.6	6121.7	6232.7	6784.0	7220.4	7484.6
17.5°	5133.9	5179.9	5183.7	5348.3	5532.1	5796.2	5991.5	6140.8	6680.6	7274.0	7488.4
20°	5210.5	5183.7	5206.7	5310.0	5490.0	5742.6	6025.9	6075.7	6646.2	7300.8	7530.5
22.5°	5428.7	5421.1	5363.6	5447.9	5574.2	5838.4	6106.3	6182.9	6745.7	7438.6	7565.0
25°	5669.9	5712.0	5658.4	5646.9	5735.0	5995.3	6351.4	6450.9	7078.8	7687.5	7672.2
27.5°	6121.7	6079.5	6079.5	6025.9	6003.0	6129.3	6615.5	6780.1	7450.1	8009.1	7794.7
30°	6554.3	6600.2	6565.8	6584.9	6431.8	6420.3	6990.7	7193.6	8108.6	8499.1	8055.0
32.5°	7239.6	7178.3	7235.7	7186.0	6983.1	6776.3	7499.9	7710.5	8904.9	9061.9	8445.5
35°	7810.0	7783.2	8028.2	8020.6	7691.3	7488.4	8039.7	8353.6	9460.1	9735.7	8904.9
37.5°	8621.6	8571.9	8851.3	8985.3	8690.5	8388.1	8813.0	9176.7	9976.9	10275.5	9375.8
40°	9456.2	9582.6	9957.7	10179.8	9865.9	9463.9	9758.7	9869.7	10321.4	10627.7	9697.4
42.5°	10512.9	10696.6	11079.5	11270.9	11244.1	10807.7	10719.6	10715.8	10570.3	10528.2	9934.8
45°	11527.4	11458.5	12048.1	12465.4	12802.3	12675.9	11646.1	11531.2	10964.6	10677.5	9996.0
47.5°	11971.5	11948.5	12350.5	13093.2	14241.8	14398.7	12993.7	12549.6	11630.8	11305.4	10329.1
50°	11397.2	11515.9	11914.1	12737.2	14498.3	15696.6	14647.6	14050.3	12407.9	12071.0	11117.8
52.5°	9521.3	9601.7	9980.7	11025.9	13625.4	16462.3	16232.5	15888.0	13835.9	13277.0	12492.2
54°	7829.1	8043.5	8250.3	9299.3	12071.0	16037.3	17101.6	16837.4	14766.3	14280.0	13357.4
55°	6818.4	6944.8	7094.1	8139.2	10995.3	15317.5	17002.1	17025.0	15390.3	14594.0	13939.3
57.5°	4980.8	5068.8	4915.7	5378.9	7549.7	12438.6	15551.1	16171.3	16232.5	15064.9	14295.4
60°	3805.5	3843.7	3671.5	3744.2	4693.7	8537.4	12028.9	12775.5	14643.7	13166.0	12109.3
62.5°	2951.7	2959.4	2955.5	3081.9	3235.0	5022.9	7522.9	8185.2	10095.6	9349.0	8223.5
65°	2174.5	2140.1	2201.3	2584.2	2760.3	3158.5	3962.4	4444.8	5486.1	4632.4	3311.6
67.5°	1408.9	1420.3	1481.6	1921.9	2366.0	2423.4	2438.7	2400.4	2404.3	1324.6	830.8
70°	846.1	865.2	846.1	1087.3	1692.2	1738.1	1588.8	1550.5	1209.8	313.9	310.1
72.5°	501.5	474.7	425.0	467.1	704.4	842.3	758.0	754.2	474.7	183.8	183.8
75°	210.6	191.4	157.0	141.7	187.6	179.9	179.9	160.8	126.3	122.5	114.9
77.5°	42.1	42.1	30.6	34.5	45.9	53.6	65.1	65.1	76.6	76.6	72.7
80°	0.0	3.8	11.5	23.0	34.5	49.8	57.4	57.4	65.1	65.1	53.6
82.5°	0.0	3.8	11.5	23.0	30.6	45.9	57.4	57.4	65.1	68.9	57.4
85°	0.0	3.8	11.5	19.1	30.6	38.3	38.3	34.5	26.8	23.0	15.3
87.5°	0.0	0.0	3.8	7.7	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2	7381.2
2.5°	7415.7	7411.8	7320.0	7170.6	7136.2	7009.9	6994.5	6918.0	6960.1	6818.4	6803.1
5°	7354.4	7308.5	7197.4	7101.7	6822.3	6623.2	6466.2	6274.8	6163.8	6182.9	6110.2
7.5°	7442.5	7323.8	7128.5	6795.5	6454.7	6106.3	5918.8	5528.3	5386.6	5176.0	5145.4
10°	7350.6	7262.5	6960.1	6408.8	5937.9	5436.4	4996.1	4563.5	4234.2	4092.6	4062.0
12.5°	7342.9	7189.8	6684.4	6071.9	5390.4	4670.7	4031.3	3491.5	3166.1	2982.3	2940.2
15°	7224.2	7040.5	6374.3	5551.2	4609.4	3713.6	3016.8	2496.1	2247.3	2140.1	2170.7
17.5°	7235.7	6960.1	6064.2	4999.9	3839.9	2725.8	2059.7	1791.7	1726.6	1753.4	1753.4
20°	7224.2	6780.1	5689.0	4364.4	2940.2	1891.2	1512.2	1416.5	1458.6	1542.9	1523.7
22.5°	7163.0	6695.9	5344.5	3694.4	2163.1	1401.2	1213.6	1217.4	1282.5	1385.9	1408.9
25°	7208.9	6508.3	4908.0	3016.8	1577.3	1117.9	1052.8	1079.6	1148.5	1225.1	1240.4
27.5°	7174.5	6374.3	4452.5	2343.0	1152.4	960.9	957.1	987.7	1018.4	1075.8	1075.8
30°	7212.8	6251.8	4004.5	1741.9	949.5	880.5	865.2	888.2	918.8	930.3	926.5
32.5°	7354.4	6159.9	3487.7	1301.7	838.4	804.0	804.0	804.0	800.1	815.5	819.3
35°	7664.5	6175.3	3032.1	1006.9	765.7	738.9	727.4	712.1	704.4	712.1	715.9
37.5°	8001.4	6167.6	2561.2	857.6	712.1	689.1	662.3	639.3	635.5	643.2	631.7
40°	8150.7	6240.3	2124.8	769.5	662.3	635.5	593.4	574.3	578.1	585.7	578.1
42.5°	8353.6	6263.3	1841.5	700.6	616.4	574.3	547.5	524.5	520.7	532.2	528.3
45°	8349.8	6133.1	1542.9	662.3	574.3	528.3	493.9	474.7	474.7	482.4	486.2
47.5°	8594.8	6114.0	1324.6	627.9	543.6	497.7	455.6	440.3	436.4	436.4	428.8
50°	9165.3	6382.0	1156.2	589.6	505.4	463.2	428.8	409.6	394.3	386.7	382.8
52.5°	10279.3	7216.6	1026.0	543.6	463.2	428.8	398.2	382.8	363.7	344.6	340.7
54°	11359.0	8078.0	1018.4	505.4	428.8	405.8	379.0	371.4	348.4	321.6	313.9
55°	11845.2	8579.5	1045.2	474.7	405.8	390.5	367.5	359.9	336.9	306.3	302.4
57.5°	12247.1	8774.8	1029.8	394.3	367.5	363.7	344.6	333.1	306.3	264.2	256.5
60°	9858.2	6634.7	738.9	348.4	336.9	329.2	313.9	306.3	271.8	225.9	222.0
62.5°	6228.9	3816.9	470.9	306.3	294.8	283.3	264.2	256.5	225.9	179.9	168.5
65°	2653.1	1581.1	317.8	271.8	252.7	233.5	218.2	206.7	179.9	134.0	130.2
67.5°	689.1	562.8	264.2	237.4	210.6	183.8	172.3	153.1	122.5	91.9	88.1
70°	310.1	283.3	222.0	199.1	168.5	141.7	126.3	107.2	80.4	61.3	57.4
72.5°	183.8	179.9	168.5	149.3	126.3	107.2	91.9	72.7	53.6	34.5	34.5
75°	114.9	111.0	114.9	103.4	88.1	80.4	68.9	49.8	30.6	15.3	15.3
77.5°	68.9	68.9	68.9	65.1	61.3	61.3	49.8	30.6	15.3	3.8	3.8
80°	53.6	53.6	57.4	53.6	53.6	53.6	42.1	23.0	7.7	0.0	0.0
82.5°	53.6	57.4	65.1	61.3	53.6	45.9	38.3	23.0	7.7	0.0	0.0
85°	15.3	11.5	19.1	26.8	38.3	34.5	26.8	19.1	7.7	0.0	0.0
87.5°	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	3.8	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)