

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: P530571

Luminaire Tested: **GALN-SA5D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530571  
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-SA5D-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 22612 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

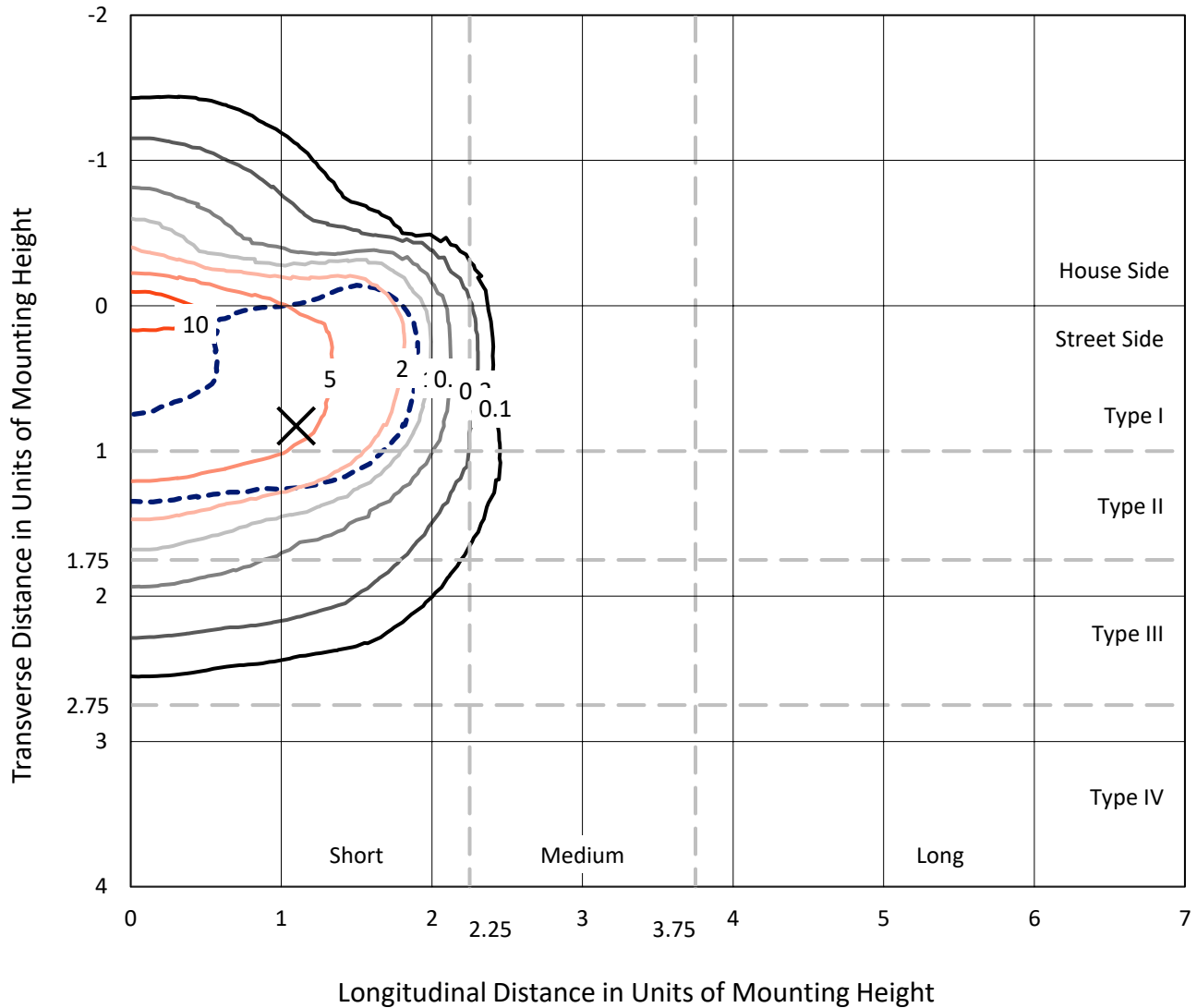
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

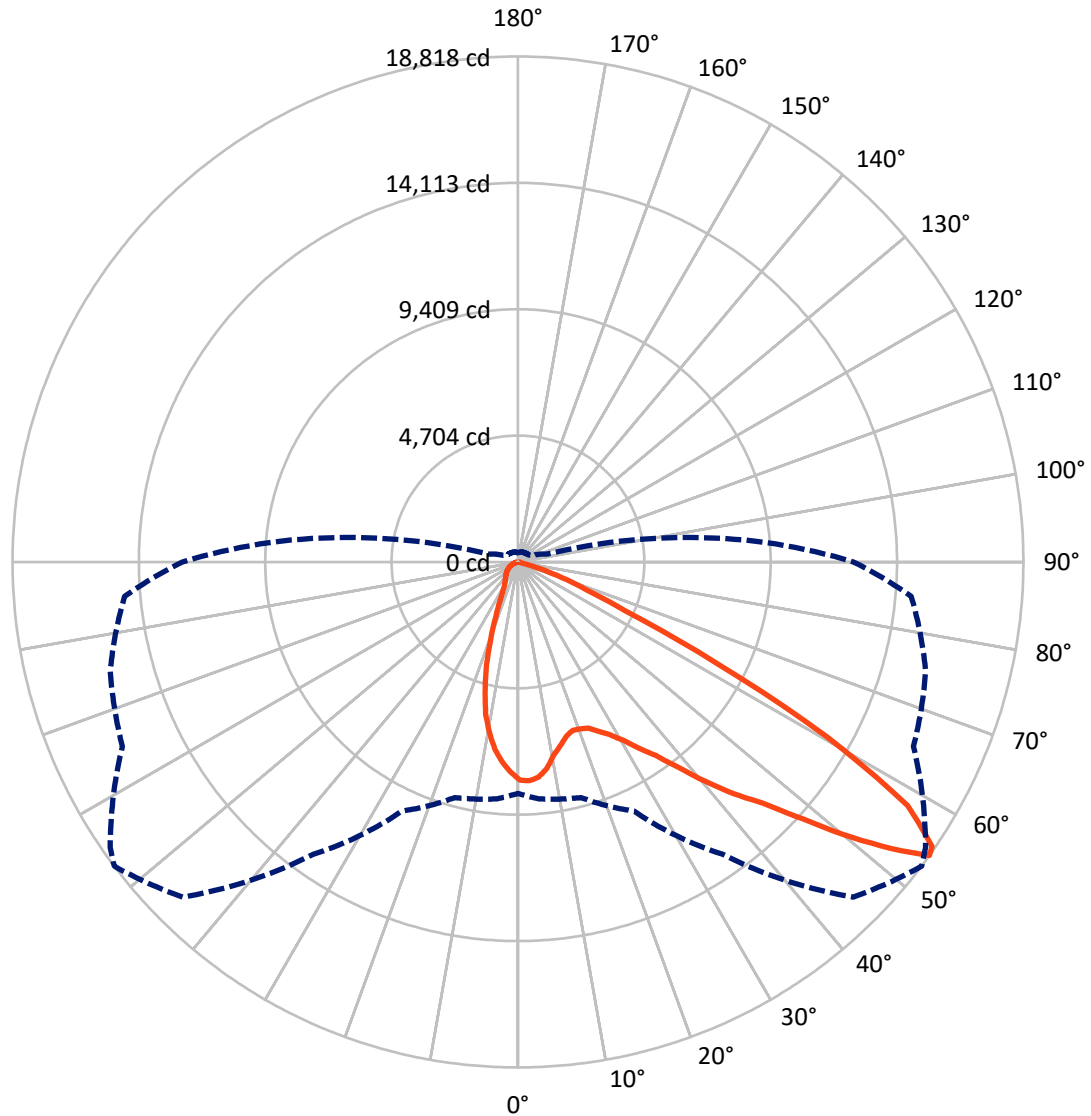
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	3741.2	0.0	3741.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18870.8	0.0	18870.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	22612.0	0.0	22612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.8	3.1
10°-20°	1597.6	7.1
20°-30°	2270.6	10.0
30°-40°	3504.1	15.5
40°-50°	5494.1	24.3
50°-60°	6382.1	28.2
60°-70°	2411.6	10.7
70°-80°	229.3	1.0
80°-90°	25.8	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°	22612.0	100.0
0°-180°	22612.0	100.0

**Coefficient of Utilization**

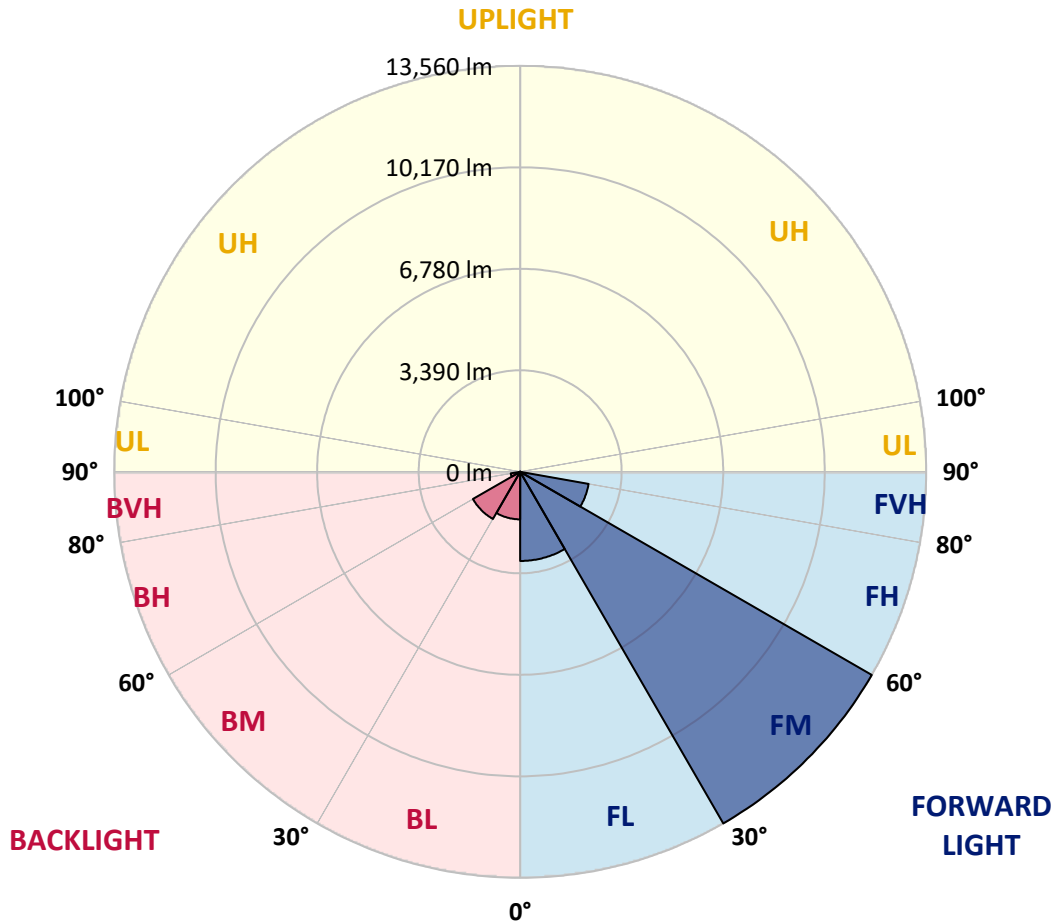


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.4	13.2			
FM (30°-60°)	13559.7	60.0			
FH (60°-80°)	2320.3	10.3			G2/5000
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1587.6	7.0	B3/2500		
BM (30°-60°)	1820.6	8.1	B2/2500		
BH (60°-80°)	320.5	1.4	B1/500		G1/500
BVH (80°-90°)	12.5	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°	53°	55°	65°	75°	85°
0°	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8
2.5°	8079.7	8008.1	8079.7	8088.1	8138.7	8185.0	8155.5	8223.0	8185.0	8142.9	8130.3
5°	7426.8	7523.7	7527.9	7679.5	7645.8	7923.9	8046.0	8012.3	8218.7	8206.1	8176.6
7.5°	6841.2	6803.3	6853.9	7030.8	7254.1	7574.2	7751.1	7746.9	8041.8	8252.4	8231.4
10°	6297.8	6293.6	6398.9	6537.9	6727.5	7064.5	7308.8	7431.0	7890.2	8210.3	8256.7
12.5°	5931.3	5914.5	6028.2	6141.9	6441.0	6702.2	7013.9	7072.9	7599.5	8062.9	8138.7
15°	5691.2	5729.1	5737.5	5956.6	6146.2	6491.6	6735.9	6858.1	7464.7	7944.9	8235.6
17.5°	5649.1	5699.6	5703.8	5885.0	6087.2	6377.8	6592.7	6757.0	7350.9	8003.9	8239.8
20°	5733.3	5703.8	5729.1	5842.8	6040.8	6318.9	6630.6	6685.4	7313.0	8033.4	8286.1
22.5°	5973.4	5965.0	5901.8	5994.5	6133.5	6424.2	6719.1	6803.3	7422.6	8185.0	8324.1
25°	6238.8	6285.2	6226.2	6213.6	6310.4	6596.9	6988.7	7098.2	7789.1	8458.9	8442.0
27.5°	6735.9	6689.6	6689.6	6630.6	6605.3	6744.3	7279.3	7460.5	8197.7	8812.7	8576.8
30°	7211.9	7262.5	7224.6	7245.6	7077.1	7064.5	7692.2	7915.4	8922.2	9351.9	8863.3
32.5°	7966.0	7898.6	7961.8	7907.0	7683.7	7456.3	8252.4	8484.1	9798.5	9971.2	9292.9
35°	8593.7	8564.2	8833.8	8825.3	8463.1	8239.8	8846.4	9191.8	10409.3	10712.6	9798.5
37.5°	9486.7	9432.0	9739.5	9886.9	9562.6	9229.8	9697.4	10097.5	10978.0	11306.6	10316.6
40°	10405.1	10544.1	10956.9	11201.2	10855.8	10413.5	10737.9	10860.0	11357.1	11694.1	10670.5
42.5°	11567.7	11769.9	12191.2	12401.8	12372.3	11892.1	11795.2	11791.0	11630.9	11584.6	10931.6
45°	12684.1	12608.2	13257.0	13716.2	14086.9	13947.8	12814.7	12688.3	12064.8	11748.9	10999.0
47.5°	13172.7	13147.5	13589.8	14407.0	15670.8	15843.5	14297.5	13808.8	12797.8	12439.7	11365.5
50°	12540.8	12671.4	13109.5	14015.2	15953.0	17271.6	16117.3	15460.2	13653.0	13282.3	12233.3
52.5°	10476.7	10565.1	10982.2	12132.2	14992.6	18114.1	17861.3	17482.2	15224.3	14609.2	13745.6
54°	8614.7	8850.6	9078.1	10232.4	13282.3	17646.5	18817.6	18526.9	16247.9	15712.9	14697.7
55°	7502.6	7641.6	7805.9	8955.9	12098.5	16854.5	18708.1	18733.3	16934.6	16058.3	15338.0
57.5°	5480.6	5577.5	5408.9	5918.7	8307.2	13686.7	17111.5	17793.9	17861.3	16576.5	15729.8
60°	4187.3	4229.4	4039.9	4119.9	5164.6	9394.0	13235.9	14057.4	16113.1	14487.1	13324.4
62.5°	3247.9	3256.3	3252.1	3391.1	3559.6	5526.9	8277.7	9006.5	11108.6	10287.1	9048.6
65°	2392.7	2354.8	2422.2	2843.5	3037.3	3475.4	4360.0	4890.8	6036.6	5097.2	3643.9
67.5°	1550.2	1562.9	1630.3	2114.7	2603.4	2666.6	2683.4	2641.3	2645.5	1457.6	914.1
70°	931.0	952.0	931.0	1196.4	1862.0	1912.5	1748.2	1706.1	1331.2	345.4	341.2
72.5°	551.8	522.4	467.6	513.9	775.1	926.8	834.1	829.9	522.4	202.2	202.2
75°	231.7	210.6	172.7	155.9	206.4	198.0	198.0	176.9	139.0	134.8	126.4
77.5°	46.3	46.3	33.7	37.9	50.6	59.0	71.6	71.6	84.3	84.3	80.0
80°	0.0	4.2	12.6	25.3	37.9	54.8	63.2	63.2	71.6	71.6	59.0
82.5°	0.0	4.2	12.6	25.3	33.7	50.6	63.2	63.2	71.6	75.8	63.2
85°	0.0	4.2	12.6	21.1	33.7	42.1	42.1	37.9	29.5	25.3	16.9
87.5°	0.0	0.0	4.2	8.4	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8	8121.8
2.5°	8159.8	8155.5	8054.4	7890.2	7852.2	7713.2	7696.4	7612.1	7658.5	7502.6	7485.7
5°	8092.4	8041.8	7919.6	7814.3	7506.8	7287.8	7115.0	6904.4	6782.2	6803.3	6723.3
7.5°	8189.3	8058.7	7843.8	7477.3	7102.4	6719.1	6512.6	6083.0	5927.1	5695.4	5661.7
10°	8088.1	7991.3	7658.5	7051.9	6533.7	5981.9	5497.4	5021.4	4659.1	4503.2	4469.5
12.5°	8079.7	7911.2	7355.2	6681.1	5931.3	5139.3	4435.8	3841.9	3483.8	3281.6	3235.3
15°	7949.1	7746.9	7013.9	6108.2	5071.9	4086.2	3319.5	2746.6	2472.8	2354.8	2388.5
17.5°	7961.8	7658.5	6672.7	5501.6	4225.2	2999.4	2266.4	1971.5	1899.9	1929.4	1929.4
20°	7949.1	7460.5	6259.9	4802.3	3235.3	2081.0	1664.0	1558.7	1605.0	1697.7	1676.6
22.5°	7881.7	7367.8	5880.8	4065.1	2380.1	1541.8	1335.4	1339.6	1411.2	1525.0	1550.2
25°	7932.3	7161.4	5400.5	3319.5	1735.6	1230.1	1158.5	1187.9	1263.8	1348.0	1364.9
27.5°	7894.4	7013.9	4899.2	2578.1	1268.0	1057.4	1053.1	1086.8	1120.5	1183.7	1183.7
30°	7936.5	6879.1	4406.4	1916.7	1044.7	968.9	952.0	977.3	1011.0	1023.7	1019.4
32.5°	8092.4	6778.0	3837.7	1432.3	922.6	884.6	884.6	884.6	880.4	897.3	901.5
35°	8433.6	6794.9	3336.4	1107.9	842.5	813.0	800.4	783.5	775.1	783.5	787.8
37.5°	8804.3	6786.5	2818.2	943.6	783.5	758.3	728.8	703.5	699.3	707.7	695.1
40°	8968.6	6866.5	2338.0	846.7	728.8	699.3	652.9	631.9	636.1	644.5	636.1
42.5°	9191.8	6891.8	2026.2	770.9	678.2	631.9	602.4	577.1	572.9	585.5	581.3
45°	9187.6	6748.5	1697.7	728.8	631.9	581.3	543.4	522.4	522.4	530.8	535.0
47.5°	9457.2	6727.5	1457.6	690.9	598.2	547.6	501.3	484.4	480.2	480.2	471.8
50°	10084.9	7022.4	1272.2	648.7	556.1	509.7	471.8	450.7	433.9	425.5	421.3
52.5°	11310.8	7940.7	1129.0	598.2	509.7	471.8	438.1	421.3	400.2	379.1	374.9
54°	12498.7	8888.5	1120.5	556.1	471.8	446.5	417.0	408.6	383.3	353.9	345.4
55°	13033.7	9440.4	1150.0	522.4	446.5	429.7	404.4	396.0	370.7	337.0	332.8
57.5°	13476.0	9655.2	1133.2	433.9	404.4	400.2	379.1	366.5	337.0	290.7	282.2
60°	10847.4	7300.4	813.0	383.3	370.7	362.3	345.4	337.0	299.1	248.5	244.3
62.5°	6853.9	4199.9	518.1	337.0	324.4	311.7	290.7	282.2	248.5	198.0	185.4
65°	2919.3	1739.8	349.6	299.1	278.0	257.0	240.1	227.5	198.0	147.4	143.2
67.5°	758.3	619.2	290.7	261.2	231.7	202.2	189.6	168.5	134.8	101.1	96.9
70°	341.2	311.7	244.3	219.1	185.4	155.9	139.0	118.0	88.5	67.4	63.2
72.5°	202.2	198.0	185.4	164.3	139.0	118.0	101.1	80.0	59.0	37.9	37.9
75°	126.4	122.2	126.4	113.7	96.9	88.5	75.8	54.8	33.7	16.9	16.9
77.5°	75.8	75.8	75.8	71.6	67.4	67.4	54.8	33.7	16.9	4.2	4.2
80°	59.0	59.0	63.2	59.0	59.0	59.0	46.3	25.3	8.4	0.0	0.0
82.5°	59.0	63.2	71.6	67.4	59.0	50.6	42.1	25.3	8.4	0.0	0.0
85°	16.9	12.6	21.1	29.5	42.1	37.9	29.5	21.1	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	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)