

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: P531587

Luminaire Tested: **GALN-SA6D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19721 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

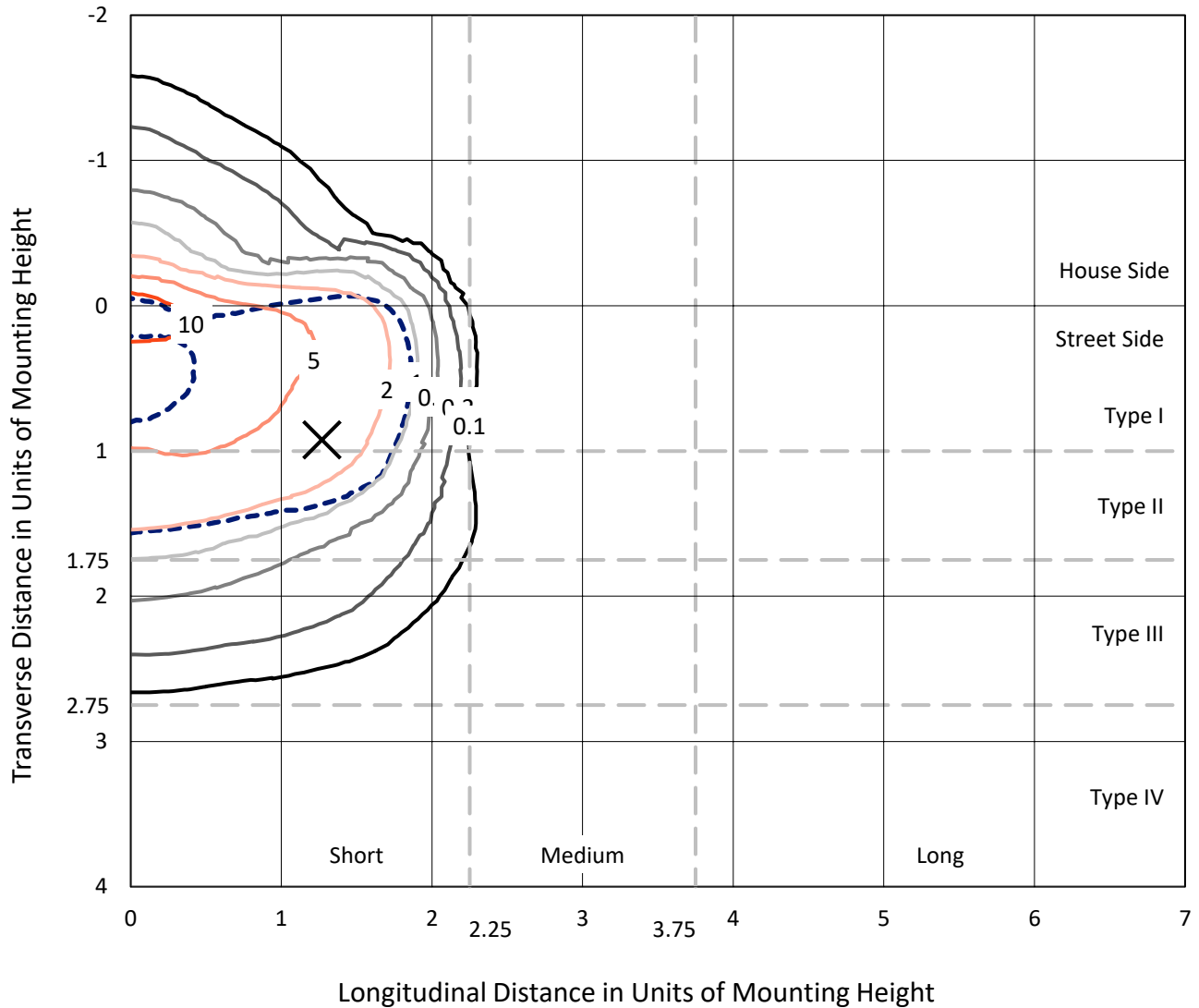
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

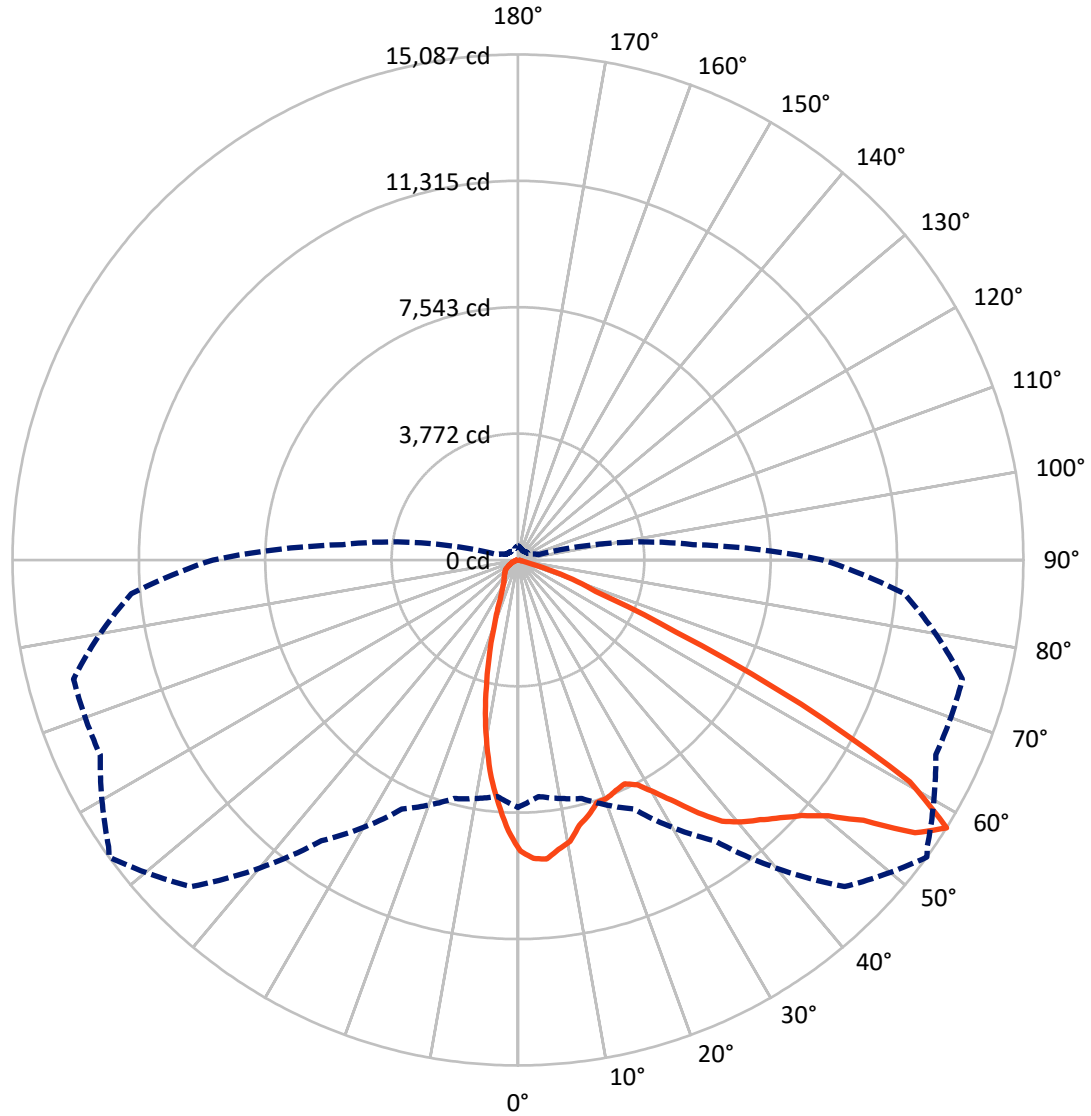
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2786.9	0.0	2786.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16934.1	0.0	16934.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	19721.0	0.0	19721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.0	3.7
10°-20°	1552.1	7.9
20°-30°	2056.8	10.4
30°-40°	2989.1	15.2
40°-50°	4432.5	22.5
50°-60°	5542.6	28.1
60°-70°	2186.3	11.1
70°-80°	217.7	1.1
80°-90°	16.9	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°	19721.0	100.0
0°-180°	19721.0	100.0

Coefficient of Utilization



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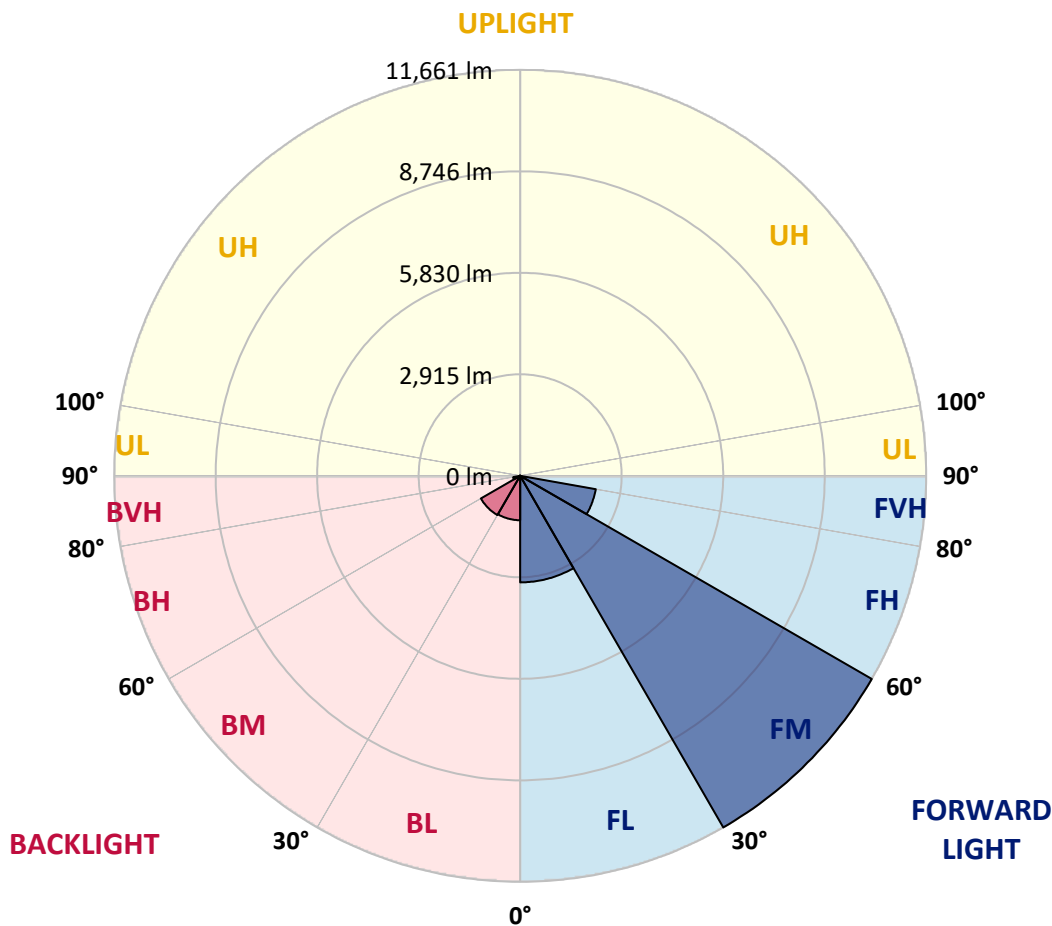
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3061.3	15.5			
FM (30°-60°)	11661.0	59.1			
FH (60°-80°)	2204.1	11.2			G2/5000
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1274.6	6.5	B3/2500		
BM (30°-60°)	1303.2	6.6	B2/2500		
BH (60°-80°)	199.8	1.0	B1/500		G1/500
BVH (80°-90°)	9.2	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4
2.5°	9193.4	9098.1	9105.4	9072.4	9028.4	9061.4	8918.4	8951.4	8947.7	8753.4	8625.0
5°	8962.4	9065.1	8958.7	9046.7	8962.4	9054.1	8966.1	8900.1	8793.7	8650.7	8412.3
7.5°	8570.0	8471.0	8500.3	8610.4	8628.7	8834.1	8724.0	8808.4	8764.4	8482.0	8155.6
10°	7781.6	7759.6	7906.3	8053.0	8232.6	8452.7	8537.0	8489.3	8456.3	8350.0	7913.6
12.5°	7176.5	7238.9	7235.2	7477.2	7781.6	7906.3	8126.3	8119.0	8302.3	8104.3	7686.2
15°	6600.8	6633.8	6787.8	6938.2	7275.5	7631.2	7902.6	7939.3	8159.3	8020.0	7510.2
17.5°	6248.7	6201.1	6322.1	6501.8	6846.5	7312.2	7612.9	7700.9	8001.6	7972.3	7308.5
20°	5900.4	5900.4	5999.4	6212.1	6527.4	7051.8	7587.2	7561.6	8001.6	7917.3	7092.2
22.5°	5783.0	5841.7	5867.4	6028.7	6402.8	6853.8	7477.2	7524.9	8064.0	7891.6	6996.8
25°	5944.4	5867.4	5874.7	6003.0	6355.1	6758.5	7396.5	7502.9	8177.6	8020.0	6919.8
27.5°	5970.0	6047.1	6069.1	6157.1	6391.8	6787.8	7598.2	7814.6	8460.0	8320.7	6941.8
30°	6193.7	6270.7	6267.1	6417.4	6578.8	7026.2	8049.3	8093.3	9043.1	8698.4	7077.5
32.5°	6465.1	6545.8	6571.4	6747.5	6875.8	7462.6	8599.4	8713.0	9604.1	9292.4	7433.2
35°	6802.5	6773.1	6890.5	7066.5	7341.5	8100.6	9270.4	9461.1	10209.2	10062.5	7799.9
37.5°	7224.2	7187.5	7301.2	7587.2	7961.3	8856.1	9890.2	10014.9	10649.3	10777.6	8478.3
40°	7521.2	7535.9	7880.6	8265.6	8661.7	9574.8	10282.6	10403.6	10957.3	11445.0	8991.7
42.5°	8016.3	8108.0	8522.3	8991.7	9406.1	10113.9	10601.6	10718.9	11100.3	11980.4	9684.8
45°	8735.0	8694.7	9153.1	9677.5	10135.9	10674.9	10979.3	10939.0	11184.7	12512.2	10121.2
47.5°	9659.1	9666.5	9970.9	10418.2	10895.0	11162.7	11401.0	11258.0	11360.7	13073.2	10704.3
50°	10289.9	10344.9	10590.6	11049.0	11287.3	11698.1	12002.4	11914.4	11881.4	13410.6	11071.0
52.5°	10451.2	10616.3	10748.3	11320.3	11877.7	12526.8	12915.5	13102.6	12515.8	13524.3	11536.7
55°	9233.8	9380.4	9846.2	10630.9	12101.4	13839.6	14375.0	14378.7	13344.6	14030.3	11863.1
57.5°	7381.9	7084.8	7370.9	8203.3	10231.2	13784.6	15086.5	14914.1	13759.0	13733.3	11580.7
60°	5104.6	5031.3	5049.6	5379.6	7081.2	10964.6	13443.6	13667.3	12669.8	11903.4	9167.8
62.5°	4044.8	3982.5	3901.8	3865.1	4396.9	6831.8	9483.1	9798.5	8859.7	7719.3	5434.6
65°	3168.4	3131.7	3142.7	3289.4	3285.7	3876.1	5185.3	5056.9	4048.5	2992.4	1708.9
67.5°	2137.9	2192.9	2236.9	2680.7	2908.0	2699.0	2504.6	2431.3	1316.5	553.7	377.7
70°	1202.8	1210.1	1257.8	1675.9	2207.6	2093.9	1727.2	1727.2	656.4	201.7	216.4
72.5°	656.4	634.4	590.4	722.4	982.8	997.5	770.1	671.1	194.4	132.0	121.0
75°	319.0	315.4	271.4	223.7	212.7	176.0	135.7	124.7	88.0	84.3	73.3
77.5°	66.0	62.3	33.0	33.0	36.7	40.3	51.3	51.3	62.3	62.3	51.3
80°	0.0	0.0	3.7	14.7	25.7	36.7	44.0	44.0	51.3	51.3	40.3
82.5°	0.0	0.0	3.7	11.0	22.0	33.0	40.3	44.0	51.3	55.0	44.0
85°	0.0	0.0	0.0	7.3	18.3	25.7	22.0	22.0	18.3	14.7	7.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4	8687.4
2.5°	8559.0	8551.7	8383.0	8287.7	8115.3	7964.9	7843.9	7755.9	7755.9	7700.9	7649.6
5°	8317.0	8254.6	7895.3	7664.2	7337.9	7095.8	6930.8	6802.5	6600.8	6655.8	6439.4
7.5°	8016.3	7858.6	7381.9	7029.8	6578.8	6234.1	5882.0	5570.3	5269.6	5133.9	5207.3
10°	7693.6	7418.5	6776.8	6219.4	5658.3	5027.6	4616.9	4118.2	3810.1	3791.8	3711.1
12.5°	7352.5	7040.8	6259.7	5489.7	4752.6	3993.5	3366.4	2900.7	2691.7	2460.6	2504.6
15°	7095.8	6633.8	5684.0	4756.2	3777.1	3010.7	2379.9	2020.6	1822.5	1767.5	1749.2
17.5°	6817.1	6322.1	5097.3	3975.1	2963.0	2167.3	1712.5	1540.2	1463.2	1463.2	1452.2
20°	6527.4	5970.0	4514.2	3249.1	2222.3	1617.2	1371.5	1316.5	1312.8	1309.2	1309.2
22.5°	6336.8	5566.7	3986.1	2581.6	1675.9	1294.5	1191.8	1169.8	1184.5	1228.5	1228.5
25°	6135.1	5177.9	3403.1	1991.2	1298.2	1111.1	1052.5	1067.1	1103.8	1144.1	1129.5
27.5°	5929.7	4924.9	2853.0	1562.2	1063.5	971.8	949.8	982.8	1023.1	1059.8	1048.8
30°	5882.0	4653.6	2332.3	1184.5	913.1	847.1	861.8	891.1	931.4	946.1	960.8
32.5°	5955.4	4440.9	1910.6	971.8	795.8	777.4	777.4	792.1	817.8	850.8	839.8
35°	6164.4	4319.8	1510.8	843.4	729.8	711.4	707.8	722.4	737.1	748.1	737.1
37.5°	6483.4	4224.5	1235.8	748.1	685.7	656.4	649.1	645.4	660.1	663.7	671.1
40°	6890.5	4275.8	1048.8	689.4	641.7	608.7	586.7	586.7	586.7	597.7	601.4
42.5°	7330.5	4345.5	905.8	656.4	601.4	561.1	539.1	531.7	539.1	553.7	550.1
45°	7792.6	4481.2	814.1	605.1	564.7	513.4	484.1	476.7	495.1	524.4	520.7
47.5°	8225.3	4675.6	744.4	572.1	528.1	480.4	443.7	436.4	469.4	509.7	513.4
50°	8658.0	5012.9	718.8	546.4	502.4	447.4	414.4	407.0	443.7	495.1	506.1
52.5°	9156.8	5376.0	700.4	513.4	473.1	421.7	385.0	377.7	418.0	484.1	487.7
55°	9483.1	5684.0	685.7	454.7	418.0	381.4	352.0	348.4	392.4	451.1	465.7
57.5°	9101.7	5255.0	634.4	396.0	355.7	337.4	311.7	311.7	348.4	403.4	414.4
60°	6901.5	3458.1	451.1	319.0	300.7	289.7	278.7	278.7	308.0	348.4	352.0
62.5°	4041.1	1862.9	289.7	256.7	256.7	245.7	227.4	227.4	256.7	278.7	282.4
65°	1199.1	597.7	234.7	220.0	216.4	198.0	179.7	176.0	198.0	209.0	205.4
67.5°	344.7	275.0	194.4	183.4	179.7	150.4	139.3	135.7	139.3	132.0	128.3
70°	205.4	187.0	150.4	154.0	135.7	110.0	99.0	95.3	88.0	77.0	69.7
72.5°	113.7	113.7	110.0	117.3	95.3	73.3	62.3	51.3	40.3	33.0	29.3
75°	69.7	73.3	77.0	80.7	62.3	47.7	40.3	25.7	14.7	7.3	7.3
77.5°	47.7	51.3	55.0	58.7	51.3	44.0	33.0	18.3	3.7	0.0	0.0
80°	36.7	40.3	47.7	51.3	55.0	58.7	44.0	18.3	3.7	0.0	0.0
82.5°	40.3	44.0	55.0	51.3	51.3	51.3	40.3	18.3	3.7	0.0	0.0
85°	7.3	11.0	18.3	18.3	25.7	33.0	25.7	7.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)