

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: P531431

Luminaire Tested: **GALN-SA6D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531431
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-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 22435 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

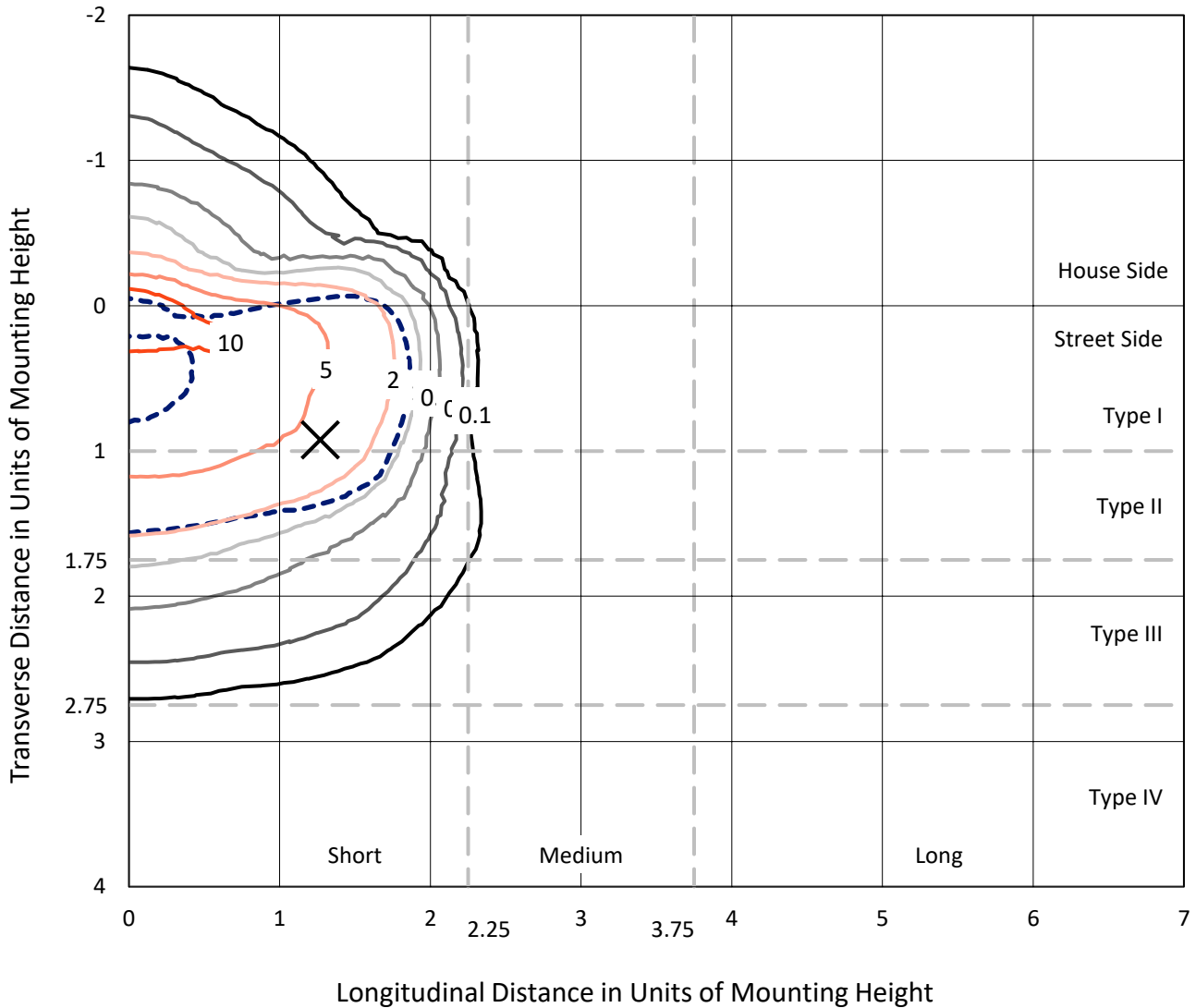
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

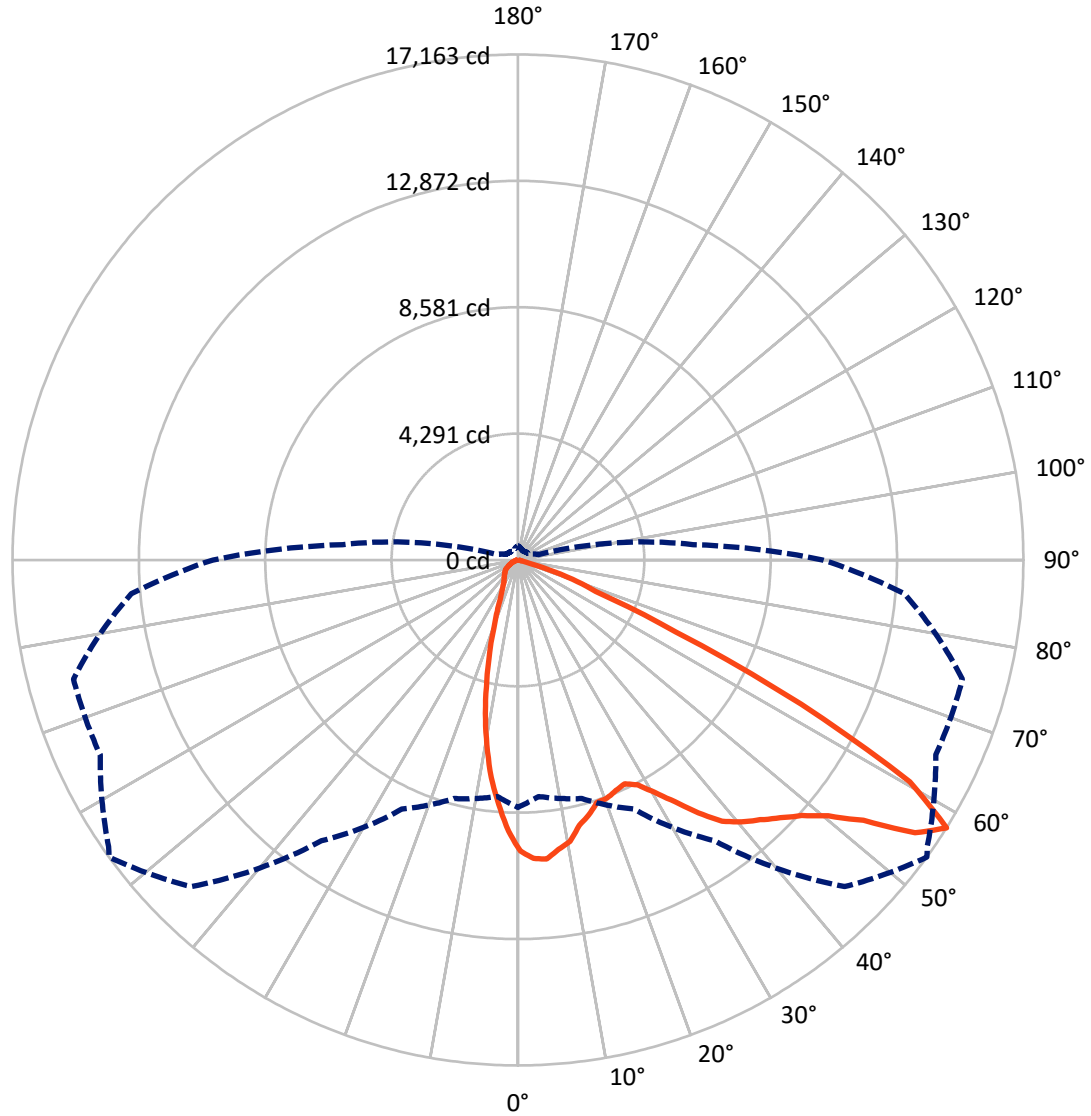
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	3170.4	0.0	3170.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19264.6	0.0	19264.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	22435.0	0.0	22435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.0	3.7
10°-20°	1765.7	7.9
20°-30°	2339.9	10.4
30°-40°	3400.5	15.2
40°-50°	5042.5	22.5
50°-60°	6305.4	28.1
60°-70°	2487.2	11.1
70°-80°	247.6	1.1
80°-90°	19.3	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°	22435.0	100.0
0°-180°	22435.0	100.0

Coefficient of Utilization



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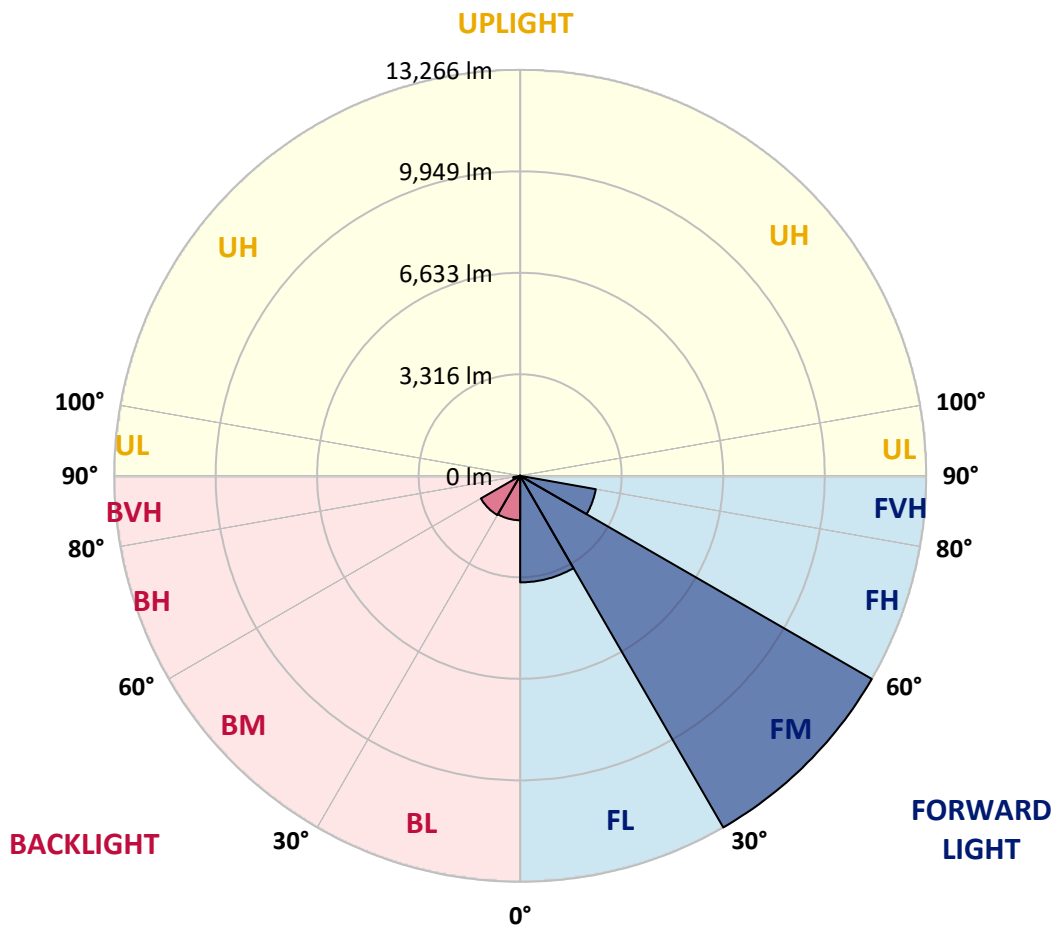
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3482.6	15.5			
FM (30°-60°)	13265.8	59.1			
FH (60°-80°)	2507.5	11.2			G2/5000
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	1450.0	6.5	B3/2500		
BM (30°-60°)	1482.6	6.6	B2/2500		
BH (60°-80°)	227.3	1.0	B1/500		G1/500
BVH (80°-90°)	10.5	0.0			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°	54°	55°	65°	75°	85°
0°	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9
2.5°	10458.6	10350.2	10358.5	10321.0	10270.9	10308.4	10145.7	10183.3	10179.1	9958.0	9812.0
5°	10195.8	10312.6	10191.6	10291.8	10195.8	10300.1	10200.0	10124.9	10003.9	9841.2	9570.0
7.5°	9749.4	9636.8	9670.2	9795.3	9816.2	10049.8	9924.6	10020.6	9970.5	9649.3	9278.0
10°	8852.5	8827.5	8994.3	9161.2	9365.6	9615.9	9711.9	9657.6	9620.1	9499.1	9002.7
12.5°	8164.2	8235.1	8230.9	8506.2	8852.5	8994.3	9244.6	9236.3	9444.9	9219.6	8744.0
15°	7509.2	7546.7	7721.9	7893.0	8276.8	8681.5	8990.2	9031.9	9282.2	9123.7	8543.8
17.5°	7108.7	7054.5	7192.1	7396.5	7788.7	8318.5	8660.6	8760.7	9102.8	9069.4	8314.3
20°	6712.4	6712.4	6825.0	7067.0	7425.7	8022.3	8631.4	8602.2	9102.8	9006.8	8068.2
22.5°	6578.9	6645.6	6674.8	6858.4	7283.9	7797.0	8506.2	8560.5	9173.7	8977.6	7959.7
25°	6762.4	6674.8	6683.2	6829.2	7229.7	7688.6	8414.5	8535.4	9303.0	9123.7	7872.1
27.5°	6791.6	6879.2	6904.3	7004.4	7271.4	7721.9	8643.9	8890.0	9624.3	9465.7	7897.2
30°	7046.1	7133.7	7129.6	7300.6	7484.2	7993.1	9157.0	9207.1	10287.6	9895.4	8051.5
32.5°	7354.8	7446.6	7475.8	7676.1	7822.1	8489.5	9782.8	9912.1	10925.9	10571.3	8456.2
35°	7738.6	7705.3	7838.8	8039.0	8351.9	9215.4	10546.2	10763.2	11614.2	11447.3	8873.4
37.5°	8218.4	8176.7	8306.0	8631.4	9056.9	10074.8	11251.3	11393.1	12114.8	12260.8	9645.1
40°	8556.3	8573.0	8965.1	9403.2	9853.7	10892.5	11697.6	11835.3	12465.2	13020.1	10229.2
42.5°	9119.5	9223.8	9695.2	10229.2	10700.6	11505.7	12060.6	12194.1	12627.9	13629.2	11017.6
45°	9937.2	9891.3	10412.7	11009.3	11530.8	12144.0	12490.3	12444.4	12723.9	14234.1	11514.1
47.5°	10988.4	10996.8	11343.0	11852.0	12394.3	12698.9	12970.0	12807.3	12924.1	14872.4	12177.4
50°	11706.0	11768.6	12048.1	12569.5	12840.7	13307.9	13654.2	13554.1	13516.5	15256.2	12594.6
52.5°	11889.5	12077.3	12227.5	12878.2	13512.4	14250.8	14693.0	14905.7	14238.2	15385.5	13124.4
55°	10504.5	10671.4	11201.2	12094.0	13766.8	15744.3	16353.3	16357.5	15181.1	15961.2	13495.7
57.5°	8397.8	8059.9	8385.3	9332.2	11639.2	15681.7	17162.7	16966.6	15652.5	15623.3	13174.4
60°	5807.1	5723.7	5744.5	6120.0	8055.7	12473.6	15293.7	15548.2	14413.5	13541.6	10429.4
62.5°	4601.5	4530.5	4438.8	4397.0	5002.0	7772.0	10788.2	11147.0	10079.0	8781.6	6182.6
65°	3604.4	3562.7	3575.2	3742.1	3737.9	4409.6	5898.9	5752.9	4605.6	3404.2	1944.0
67.5°	2432.1	2494.7	2544.8	3049.6	3308.2	3070.4	2849.3	2765.9	1497.7	629.9	429.7
70°	1368.3	1376.7	1430.9	1906.5	2511.4	2382.1	1964.9	1964.9	746.7	229.4	246.1
72.5°	746.7	721.7	671.7	821.8	1118.0	1134.7	876.1	763.4	221.1	150.2	137.7
75°	362.9	358.8	308.7	254.5	242.0	200.2	154.4	141.8	100.1	96.0	83.4
77.5°	75.1	70.9	37.5	37.5	41.7	45.9	58.4	58.4	70.9	70.9	58.4
80°	0.0	0.0	4.2	16.7	29.2	41.7	50.1	50.1	58.4	58.4	45.9
82.5°	0.0	0.0	4.2	12.5	25.0	37.5	45.9	50.1	58.4	62.6	50.1
85°	0.0	0.0	0.0	8.3	20.9	29.2	25.0	25.0	20.9	16.7	8.3
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°	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9	9882.9
2.5°	9736.9	9728.6	9536.7	9428.2	9232.1	9061.1	8923.4	8823.3	8823.3	8760.7	8702.3
5°	9461.6	9390.7	8981.8	8719.0	8347.7	8072.4	7884.6	7738.6	7509.2	7571.8	7325.6
7.5°	9119.5	8940.1	8397.8	7997.3	7484.2	7092.0	6691.5	6336.9	5994.8	5840.5	5923.9
10°	8752.4	8439.5	7709.4	7075.3	6437.0	5719.5	5252.3	4684.9	4334.5	4313.6	4221.8
12.5°	8364.4	8009.8	7121.2	6245.1	5406.6	4543.1	3829.7	3299.9	3062.1	2799.3	2849.3
15°	8072.4	7546.7	6466.2	5410.8	4296.9	3425.0	2707.5	2298.6	2073.4	2010.8	1989.9
17.5°	7755.3	7192.1	5798.8	4522.2	3370.8	2465.5	1948.2	1752.1	1664.5	1664.5	1652.0
20°	7425.7	6791.6	5135.4	3696.2	2528.1	1839.7	1560.2	1497.7	1493.5	1489.3	1489.3
22.5°	7208.8	6332.7	4534.7	2936.9	1906.5	1472.6	1355.8	1330.8	1347.5	1397.5	1397.5
25°	6979.4	5890.5	3871.4	2265.3	1476.8	1264.0	1197.3	1214.0	1255.7	1301.6	1284.9
27.5°	6745.7	5602.7	3245.6	1777.2	1209.8	1105.5	1080.5	1118.0	1163.9	1205.6	1193.1
30°	6691.5	5294.0	2653.2	1347.5	1038.8	963.7	980.4	1013.7	1059.6	1076.3	1093.0
32.5°	6775.0	5052.0	2173.5	1105.5	905.3	884.4	884.4	901.1	930.3	967.9	955.3
35°	7012.7	4914.3	1718.8	959.5	830.2	809.3	805.2	821.8	838.5	851.0	838.5
37.5°	7375.7	4805.9	1405.9	851.0	780.1	746.7	738.4	734.2	750.9	755.1	763.4
40°	7838.8	4864.3	1193.1	784.3	730.1	692.5	667.5	667.5	667.5	680.0	684.2
42.5°	8339.4	4943.5	1030.4	746.7	684.2	638.3	613.2	604.9	613.2	629.9	625.8
45°	8865.0	5097.9	926.1	688.3	642.5	584.0	550.7	542.3	563.2	596.6	592.4
47.5°	9357.3	5319.0	846.9	650.8	600.7	546.5	504.8	496.4	534.0	579.9	584.0
50°	9849.5	5702.8	817.7	621.6	571.5	509.0	471.4	463.1	504.8	563.2	575.7
52.5°	10416.9	6115.8	796.8	584.0	538.2	479.8	438.0	429.7	475.6	550.7	554.8
55°	10788.2	6466.2	780.1	517.3	475.6	433.9	400.5	396.3	446.4	513.1	529.8
57.5°	10354.3	5978.1	721.7	450.6	404.7	383.8	354.6	354.6	396.3	458.9	471.4
60°	7851.3	3934.0	513.1	362.9	342.1	329.6	317.1	317.1	350.4	396.3	400.5
62.5°	4597.3	2119.3	329.6	292.0	292.0	279.5	258.6	258.6	292.0	317.1	321.2
65°	1364.2	680.0	267.0	250.3	246.1	225.3	204.4	200.2	225.3	237.8	233.6
67.5°	392.1	312.9	221.1	208.6	204.4	171.0	158.5	154.4	158.5	150.2	146.0
70°	233.6	212.8	171.0	175.2	154.4	125.2	112.6	108.5	100.1	87.6	79.3
72.5°	129.3	129.3	125.2	133.5	108.5	83.4	70.9	58.4	45.9	37.5	33.4
75°	79.3	83.4	87.6	91.8	70.9	54.2	45.9	29.2	16.7	8.3	8.3
77.5°	54.2	58.4	62.6	66.7	58.4	50.1	37.5	20.9	4.2	0.0	0.0
80°	41.7	45.9	54.2	58.4	62.6	66.7	50.1	20.9	4.2	0.0	0.0
82.5°	45.9	50.1	62.6	58.4	58.4	58.4	45.9	20.9	4.2	0.0	0.0
85°	8.3	12.5	20.9	20.9	29.2	37.5	29.2	8.3	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)