

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: P534169

Luminaire Tested: **GALN-SA9C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30987 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

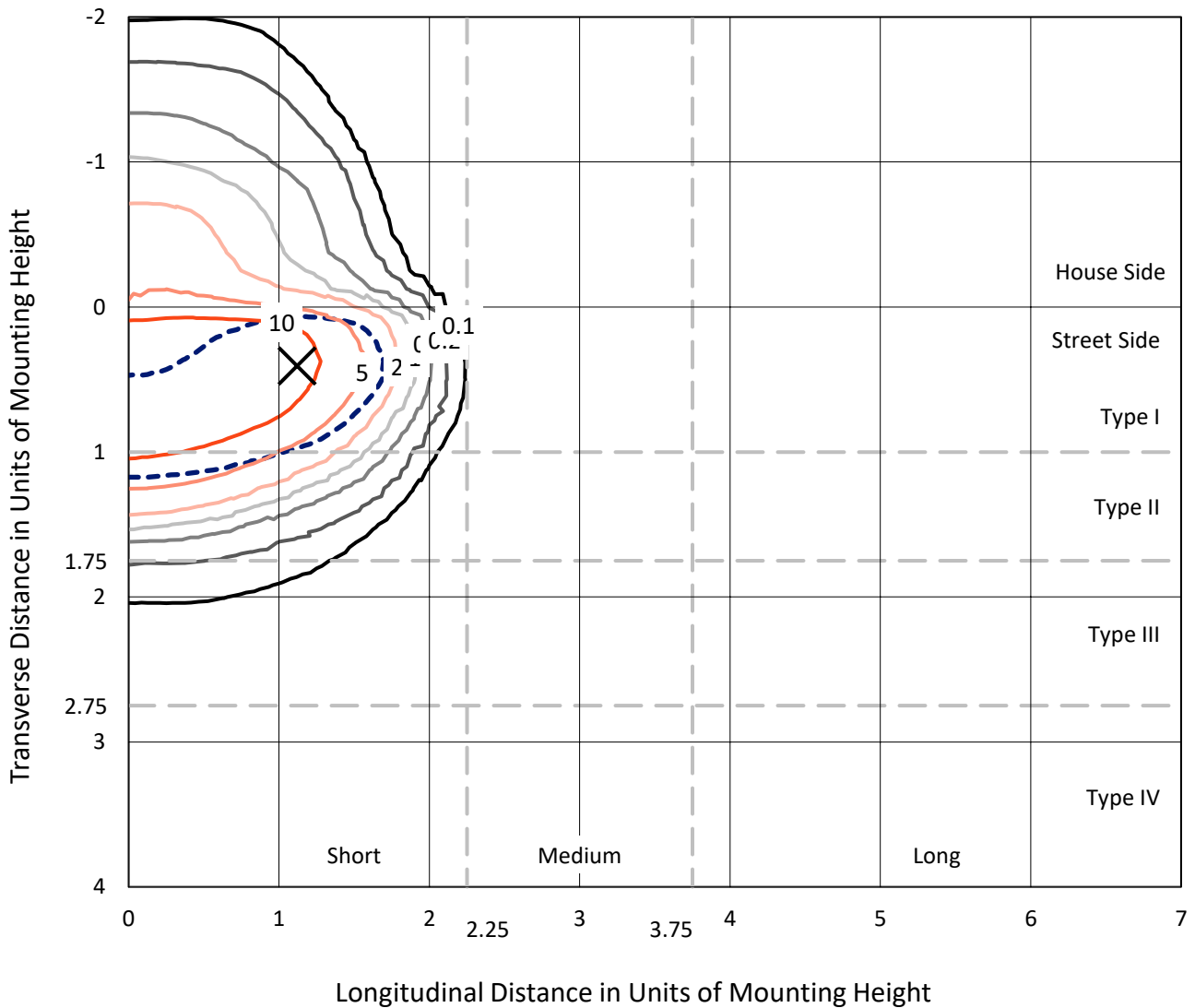
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

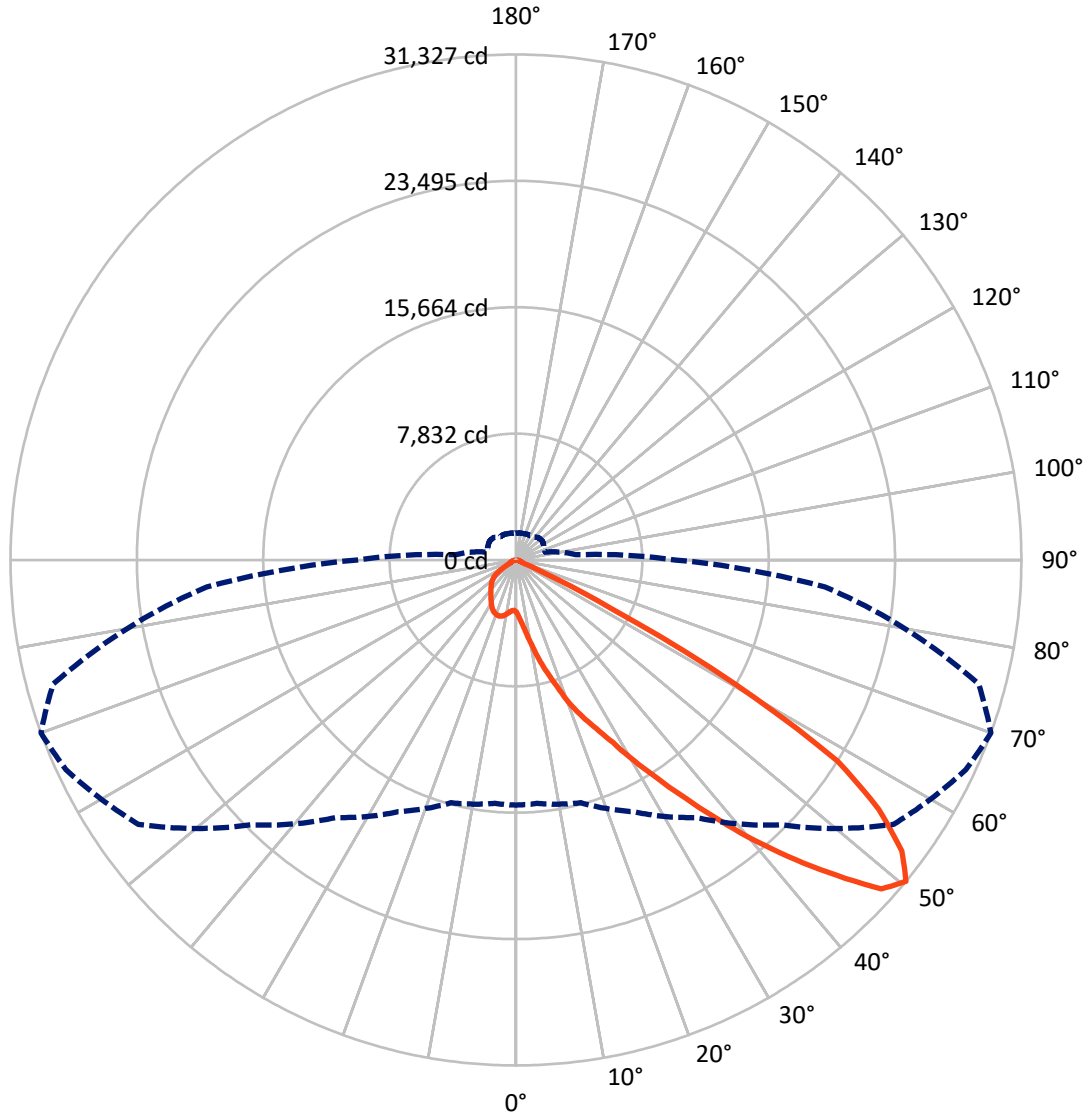
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4327.5	0.0	4327.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26659.5	0.0	26659.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	30987.0	0.0	30987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	1.3
10°-20°	1805.4	5.8
20°-30°	3787.4	12.2
30°-40°	6528.2	21.1
40°-50°	9541.0	30.8
50°-60°	7430.8	24.0
60°-70°	1259.0	4.1
70°-80°	173.0	0.6
80°-90°	44.8	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°	30987.0	100.0
0°-180°	30987.0	100.0

Coefficient of Utilization



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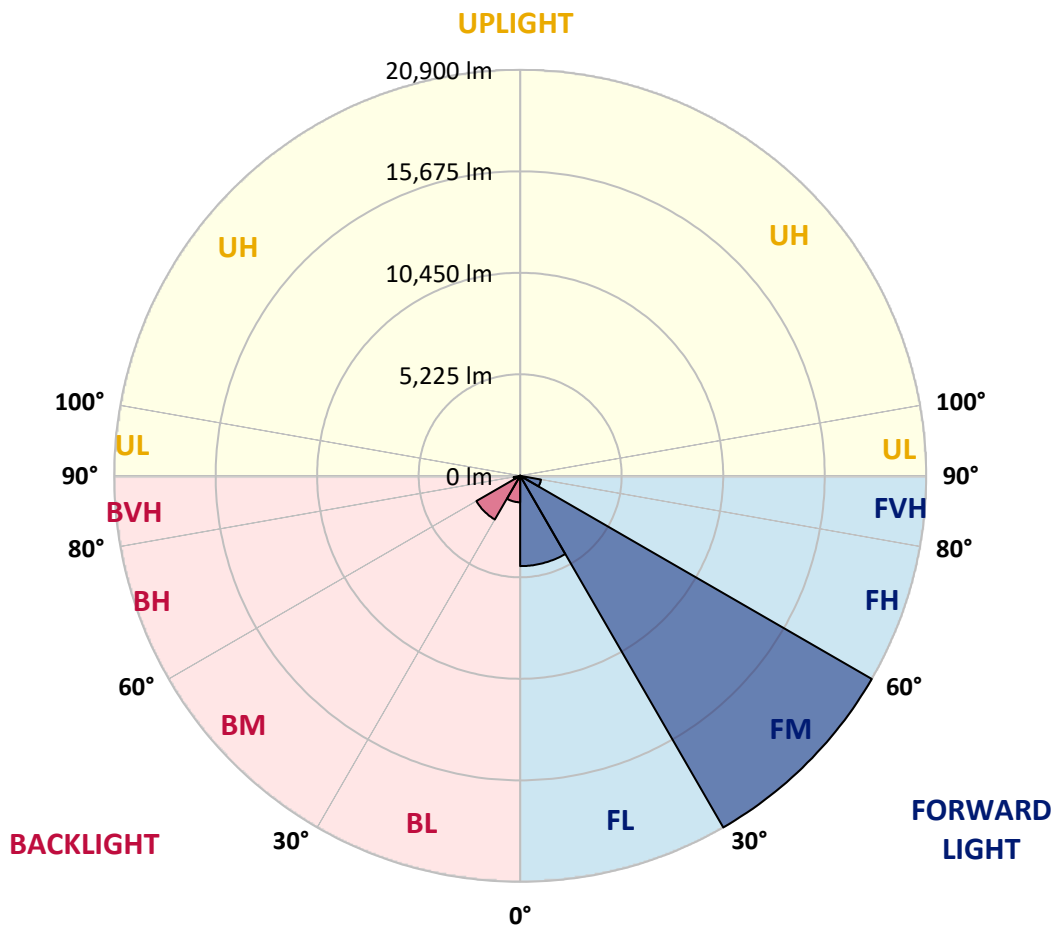
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4648.4	15.0			
FM (30°-60°)	20900.2	67.4			
FH (60°-80°)	1090.1	3.5			G1/1800
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1361.8	4.4	B3/2500		
BM (30°-60°)	2599.8	8.4	B3/5000		
BH (60°-80°)	341.8	1.1	B1/500		G1/500
BVH (80°-90°)	24.1	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6
2.5°	4203.1	4172.5	4106.3	3984.0	3933.1	3810.8	3739.5	3601.9	3515.3	3418.5	3311.5
5°	5920.0	5762.1	5665.3	5527.7	5125.2	4875.6	4462.9	4111.4	3948.4	3770.1	3525.5
7.5°	7693.0	7591.1	7458.6	7163.1	6888.0	6368.3	5660.2	4885.8	4554.6	4249.0	3765.0
10°	9160.2	8874.9	8859.6	8640.6	8340.0	7718.4	6867.6	5904.7	5313.7	4865.4	4106.3
12.5°	10184.2	9924.4	10041.6	10016.1	9735.9	9165.3	8182.0	6908.4	6291.9	5593.9	4457.8
15°	11116.6	11009.6	10973.9	10943.4	10831.3	10408.4	9527.0	8131.1	7239.5	6398.9	4855.2
17.5°	12028.5	11753.4	11885.9	11911.3	11901.2	11519.1	10693.7	9292.7	8243.2	7249.7	5273.0
20°	12838.6	12864.0	12685.7	12650.1	12619.5	12604.2	11799.3	10444.1	9476.1	8141.3	5818.1
22.5°	13877.9	13699.6	13857.5	13755.6	13556.9	13434.6	12818.2	11463.0	10546.0	9216.3	6373.4
25°	15105.7	15248.4	14876.4	14835.7	14616.6	14193.8	13638.4	12604.2	11575.1	10214.8	6974.6
27.5°	16618.8	16369.2	16272.4	16048.2	15650.8	15472.5	14820.4	13781.1	12818.2	11264.3	7555.4
30°	17918.0	17851.7	17367.7	17102.8	16756.4	16751.3	15839.3	15375.7	14438.3	12909.9	8355.3
32.5°	18977.7	18687.3	18508.9	18325.5	18045.3	18121.7	17352.5	17107.9	16165.4	14438.3	9297.8
35°	19685.8	19476.9	19369.9	19089.7	19008.2	19349.6	19028.6	18926.7	18152.3	16588.3	10403.3
37.5°	19910.0	19976.2	19955.8	19604.3	19777.5	20699.7	21112.3	20847.4	20439.8	18855.4	11600.6
40°	20108.7	20154.5	20052.6	20465.3	20959.5	22009.0	23501.7	23063.6	22910.7	21153.1	13266.5
42.5°	20220.8	20185.1	20185.1	20898.3	21647.3	23756.5	25809.6	25519.2	25402.0	23598.5	15192.3
45°	19736.8	19390.3	19762.2	20730.2	22238.2	24617.5	27653.9	28056.4	27888.2	26507.6	17444.2
47.5°	17928.1	18142.1	18351.0	19645.1	21519.9	24352.5	28784.9	30155.4	30466.1	28953.0	18921.6
50°	15192.3	15146.5	15579.5	17209.8	19487.1	23211.3	28565.8	30761.6	31327.1	29686.7	19232.4
52.5°	11050.3	11386.6	11855.3	13475.4	16175.6	20256.4	25738.3	29197.6	29951.6	28784.9	19028.6
55°	6434.6	6062.7	7117.3	8487.7	11035.1	15278.9	21759.3	25880.9	27276.9	27144.4	17999.5
57.5°	2577.9	2496.4	2858.1	3851.6	5757.0	9471.0	15824.0	21265.2	23501.7	24862.0	15819.0
60°	1131.0	1105.5	1299.1	1569.2	2353.7	4366.1	8655.8	13225.8	15559.1	17372.8	10887.3
62.5°	815.1	805.0	901.8	998.6	1243.1	1900.3	3637.6	5329.0	6643.5	8024.1	4875.6
65°	657.2	682.7	748.9	799.9	917.0	1054.6	1283.9	1482.5	1818.8	1885.0	1075.0
67.5°	534.9	555.3	616.5	672.5	692.9	570.6	591.0	519.7	519.7	463.6	371.9
70°	392.3	397.4	468.7	534.9	428.0	229.3	402.5	402.5	361.7	346.4	315.9
72.5°	290.4	295.5	351.5	331.2	168.1	142.7	295.5	326.1	295.5	280.2	254.7
75°	214.0	219.1	183.4	76.4	71.3	91.7	173.2	224.2	214.0	208.9	193.6
77.5°	40.8	30.6	25.5	35.7	50.9	76.4	112.1	137.6	142.7	152.8	142.7
80°	5.1	5.1	15.3	30.6	56.0	81.5	117.2	132.5	137.6	142.7	132.5
82.5°	0.0	5.1	15.3	30.6	56.0	76.4	101.9	117.2	127.4	132.5	127.4
85°	0.0	5.1	10.2	25.5	45.9	56.0	50.9	35.7	30.6	35.7	25.5
87.5°	0.0	0.0	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
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°	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6
2.5°	3250.4	3230.0	3158.7	3082.3	3016.0	3046.6	3016.0	2990.6	3000.8	2990.6	2980.4
5°	3428.7	3337.0	3184.2	3117.9	3061.9	3056.8	3041.5	3036.4	3041.5	3041.5	2995.7
7.5°	3596.8	3449.1	3286.1	3214.7	3148.5	3153.6	3117.9	3117.9	3112.8	3087.4	3077.2
10°	3851.6	3652.9	3444.0	3316.6	3235.1	3219.8	3184.2	3148.5	3148.5	3148.5	3097.6
12.5°	4131.8	3882.1	3596.8	3449.1	3352.3	3275.9	3219.8	3209.6	3153.6	3143.4	3117.9
15°	4376.3	4060.5	3698.7	3494.9	3372.7	3270.8	3184.2	3128.1	3102.7	3087.4	3067.0
17.5°	4615.8	4213.3	3754.8	3494.9	3362.5	3245.3	3153.6	3102.7	3041.5	3051.7	3011.0
20°	4936.7	4376.3	3770.1	3428.7	3265.7	3153.6	3031.3	3005.9	2970.2	2939.6	2949.8
22.5°	5247.5	4493.5	3724.2	3347.2	3112.8	2980.4	2919.2	2888.7	2873.4	2847.9	2812.3
25°	5527.7	4620.9	3652.9	3199.5	2949.8	2853.0	2797.0	2791.9	2756.2	2756.2	2690.0
27.5°	5813.0	4666.7	3530.6	3026.2	2807.2	2751.1	2725.6	2715.5	2700.2	2664.5	2618.7
30°	6139.1	4682.0	3352.3	2847.9	2679.8	2618.7	2654.3	2679.8	2613.6	2547.3	2567.7
32.5°	6409.1	4646.3	3138.3	2679.8	2588.1	2557.5	2628.9	2654.3	2577.9	2506.6	2470.9
35°	6735.2	4559.7	2929.4	2547.3	2496.4	2557.5	2618.7	2618.7	2465.8	2379.2	2358.8
37.5°	7229.3	4462.9	2735.8	2435.3	2399.6	2527.0	2608.5	2552.4	2313.0	2206.0	2180.5
40°	7759.2	4401.8	2547.3	2323.2	2348.6	2476.0	2521.9	2348.6	2104.1	2037.9	2017.5
42.5°	8528.5	4279.5	2379.2	2226.4	2302.8	2404.7	2404.7	2093.9	2002.2	1966.5	1961.4
45°	9486.3	4192.9	2231.5	2144.9	2236.6	2262.0	2180.5	1961.4	1895.2	1885.0	1890.1
47.5°	9955.0	4024.8	2078.6	2048.1	2114.3	2119.4	1905.4	1854.5	1798.4	1783.1	1772.9
50°	9883.7	3724.2	1879.9	1920.7	2012.4	1961.4	1737.3	1747.5	1696.5	1691.4	1666.0
52.5°	9384.4	3250.4	1681.2	1778.0	1879.9	1732.2	1599.7	1589.5	1589.5	1523.3	1497.8
55°	8319.6	2618.7	1441.8	1564.1	1686.3	1457.1	1421.4	1411.2	1385.8	1324.6	1309.3
57.5°	6587.4	1920.7	1085.2	1217.6	1431.6	1238.0	1232.9	1187.1	1120.8	1075.0	1075.0
60°	3917.8	1105.5	682.7	743.8	947.6	1003.7	1115.7	1095.4	983.3	911.9	891.6
62.5°	1788.2	570.6	433.0	443.2	509.5	652.1	876.3	1013.8	855.9	733.6	723.4
65°	601.2	422.9	356.6	341.3	351.5	392.3	524.8	718.3	682.7	565.5	545.1
67.5°	366.8	377.0	336.2	310.8	310.8	305.7	300.6	326.1	402.5	392.3	397.4
70°	315.9	346.4	310.8	280.2	270.0	254.7	214.0	178.3	152.8	178.3	188.5
72.5°	254.7	275.1	264.9	239.4	214.0	193.6	152.8	117.2	86.6	76.4	76.4
75°	188.5	203.8	214.0	183.4	163.0	137.6	112.1	76.4	45.9	30.6	30.6
77.5°	137.6	152.8	157.9	142.7	122.3	96.8	71.3	50.9	25.5	10.2	10.2
80°	117.2	137.6	152.8	142.7	127.4	91.7	66.2	35.7	20.4	5.1	5.1
82.5°	112.1	137.6	152.8	137.6	122.3	86.6	66.2	40.8	15.3	5.1	5.1
85°	25.5	35.7	45.9	56.0	66.2	66.2	50.9	30.6	15.3	5.1	5.1
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	5.1	5.1	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)