

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: P531047

Luminaire Tested: **GALN-SA6B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19905 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

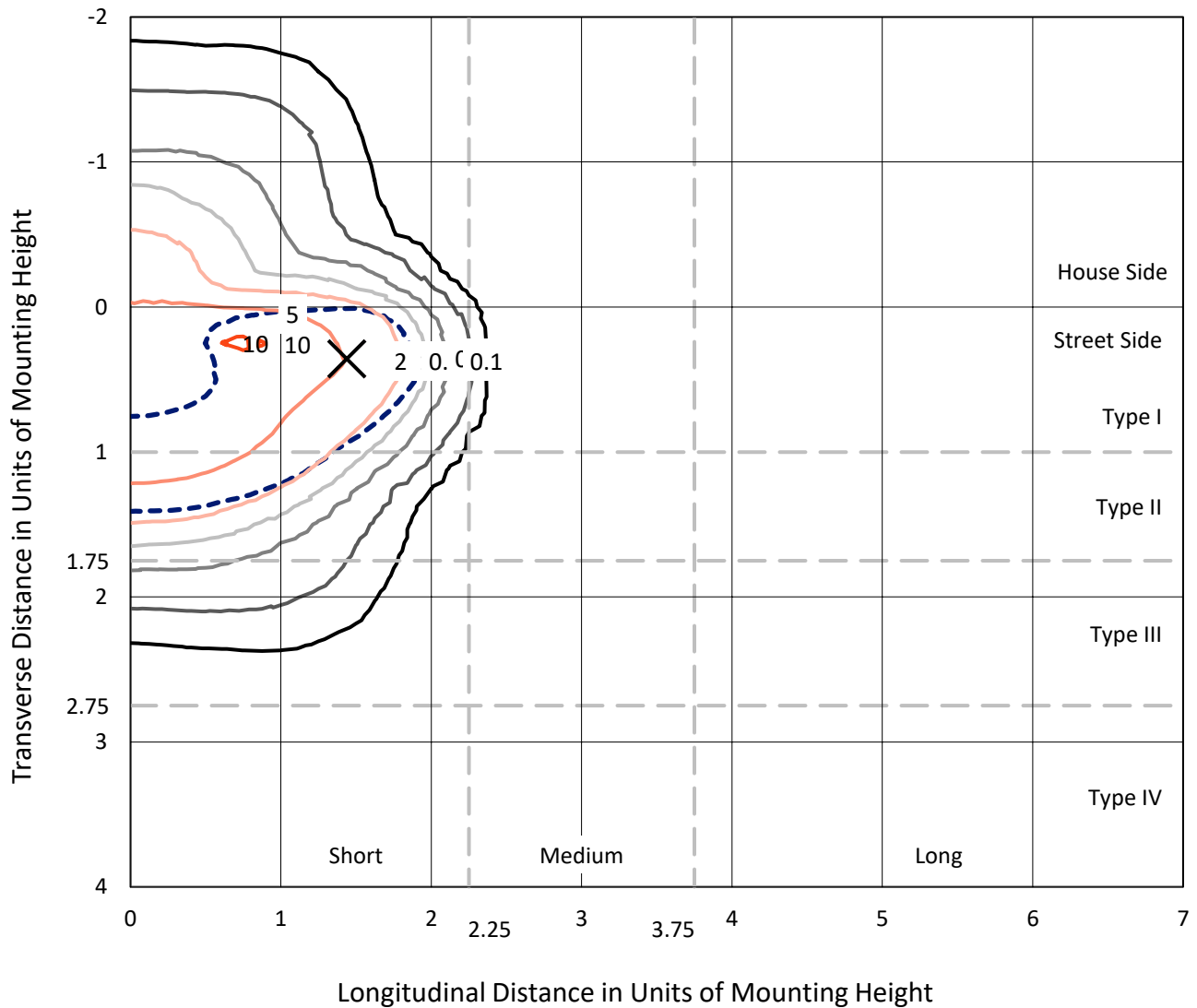
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

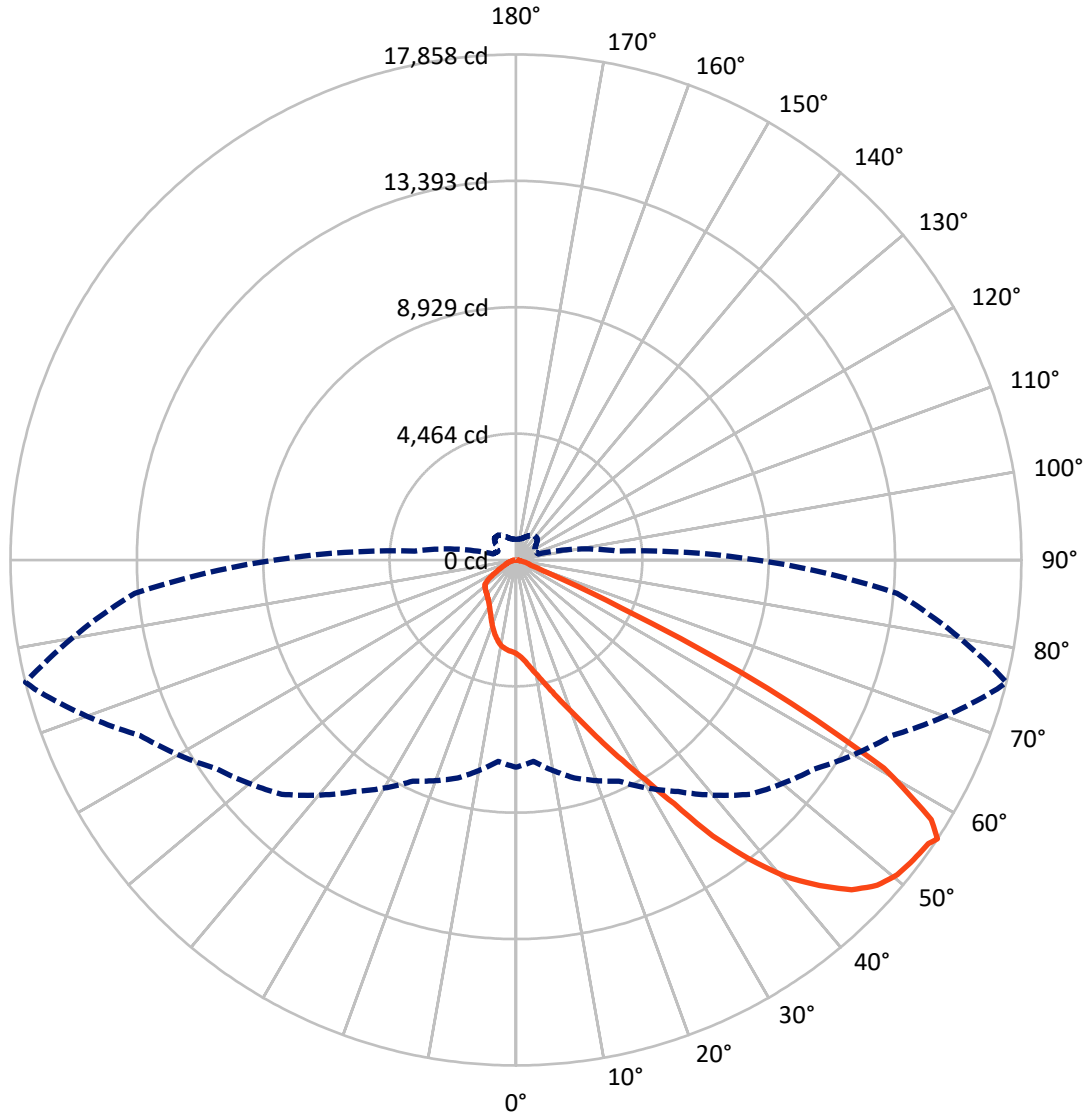
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3127.0	0.0	3127.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16778.0	0.0	16778.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	19905.0	0.0	19905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.7
10°-20°	1072.2	5.4
20°-30°	1944.3	9.8
30°-40°	3353.0	16.8
40°-50°	5447.0	27.4
50°-60°	5741.4	28.8
60°-70°	1754.2	8.8
70°-80°	224.9	1.1
80°-90°	34.2	0.2
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°	19905.0	100.0
0°-180°	19905.0	100.0

Coefficient of Utilization



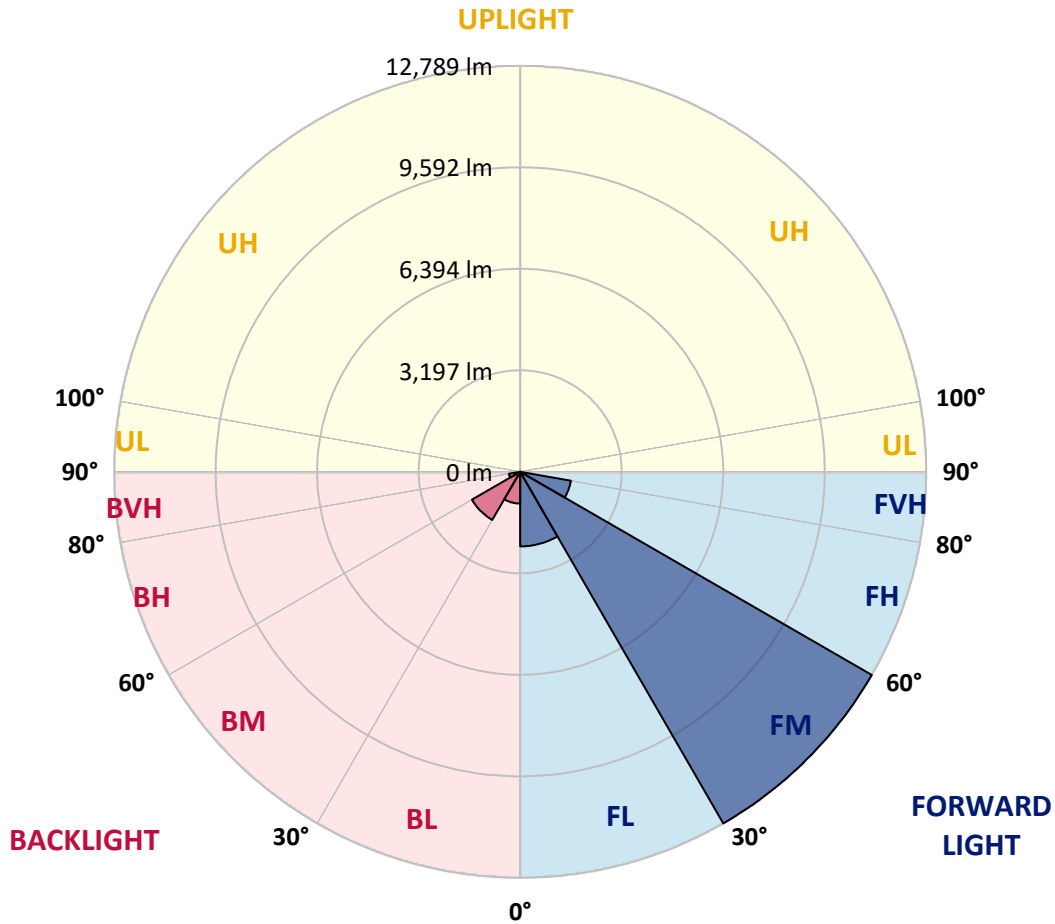
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.0	11.8			
FM (30°-60°)	12788.9	64.2			
FH (60°-80°)	1622.4	8.2			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1000.3	5.0	B3/2500		
BM (30°-60°)	1752.5	8.8	B2/2500		
BH (60°-80°)	356.7	1.8	B1/500		G1/500
BVH (80°-90°)	17.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3815.9	3727.8	3731.5	3724.2	3713.2	3672.8	3551.7	3533.4	3452.6	3430.6	3357.2
5°	4274.5	4197.5	4241.5	4175.5	4113.1	4076.4	3878.3	3786.5	3658.1	3610.4	3507.7
7.5°	4560.7	4524.0	4509.4	4513.0	4454.3	4362.6	4274.5	4072.7	3900.3	3863.6	3647.1
10°	4700.1	4678.1	4700.1	4689.1	4714.8	4725.8	4571.7	4450.6	4197.5	4135.1	3797.5
12.5°	4733.2	4777.2	4795.5	4843.2	4905.6	5012.0	5001.0	4835.9	4498.3	4458.0	4028.7
15°	4813.9	4850.6	4832.2	4909.3	5026.7	5206.5	5301.9	5276.2	4913.0	4839.6	4296.5
17.5°	4887.3	4821.2	4883.6	5037.7	5155.1	5430.3	5661.5	5767.9	5364.3	5279.9	4542.4
20°	4986.3	4968.0	4957.0	5034.0	5243.2	5610.1	6068.7	6263.2	5870.6	5782.5	4894.6
22.5°	5287.2	5290.9	5283.5	5169.8	5320.2	5734.8	6424.6	6905.3	6476.0	6402.6	5294.5
25°	5683.5	5635.8	5599.1	5507.4	5489.0	5848.6	6784.2	7690.5	7202.5	7151.1	5727.5
27.5°	6101.7	6101.7	5991.7	5907.3	5789.9	6131.1	7114.4	8453.7	8079.4	8009.7	6105.4
30°	6556.7	6582.4	6567.7	6387.9	6314.6	6439.3	7452.0	9429.6	9084.7	8996.7	6729.2
32.5°	7228.2	7173.1	7235.5	7085.1	6868.6	6978.7	7984.0	10302.9	10391.0	10266.2	7547.4
35°	8116.1	8083.1	8042.7	7796.9	7540.0	7628.1	8736.2	11377.9	12031.1	11968.7	8372.9
37.5°	8912.3	8894.0	8860.9	8692.2	8395.0	8501.4	9591.1	12497.0	13630.8	13425.3	9539.7
40°	9748.9	9847.9	9741.5	9591.1	9319.6	9554.4	10596.4	13161.1	14977.4	14727.9	10431.3
42.5°	10882.6	10805.6	10853.3	10578.1	10431.3	10688.2	11605.4	13825.3	16023.1	15725.9	11377.9
45°	12089.8	12093.4	11965.0	11876.9	11495.4	11774.2	12225.5	14192.2	16855.9	16624.8	12093.4
47.5°	12863.9	12860.3	12999.7	13139.1	12746.5	12471.3	12647.5	14540.7	17285.2	17178.8	12353.9
50°	12742.9	12779.6	12959.3	13480.4	13685.8	13315.2	13043.7	14438.0	17479.7	17468.7	12577.8
52.5°	11084.4	11205.5	11506.4	12258.5	13293.2	13751.9	13458.3	14628.8	17575.1	17593.4	12911.6
55°	8439.0	8505.0	9077.4	9991.0	11135.8	12706.2	13293.2	14779.2	17648.5	17681.5	13315.2
56°	7319.9	7143.8	7969.3	8618.8	9987.4	11704.5	12874.9	14661.8	17604.4	17857.6	13517.0
57.5°	5525.7	5408.3	6076.1	6886.9	8204.2	10016.7	11576.1	14107.8	17307.2	17303.6	13227.2
60°	3360.9	3243.5	3757.2	4234.2	4971.7	6167.8	7822.6	11234.9	14632.5	14940.7	10710.2
62.5°	1999.7	2073.1	2579.4	2869.3	3107.7	3232.5	4047.0	6677.8	9763.5	9983.7	6644.8
65°	1331.9	1357.6	1739.2	2216.1	2322.6	1849.2	1647.4	2704.1	4234.2	4098.4	2740.8
67.5°	821.9	880.6	1166.8	1665.8	1845.6	1350.2	781.5	1009.0	1166.8	1166.8	792.5
70°	499.0	528.4	777.9	1133.8	1265.8	869.6	568.7	568.7	561.4	550.4	473.3
72.5°	238.5	256.8	396.3	583.4	594.4	458.6	440.3	480.7	469.6	466.0	392.6
75°	102.7	110.1	139.4	183.5	209.1	194.5	267.8	344.9	355.9	344.9	282.5
77.5°	33.0	36.7	51.4	66.0	69.7	84.4	113.7	143.1	165.1	154.1	139.4
80°	3.7	7.3	14.7	33.0	51.4	66.0	84.4	95.4	106.4	106.4	99.1
82.5°	3.7	3.7	14.7	29.4	47.7	62.4	80.7	91.7	106.4	110.1	102.7
85°	0.0	3.7	11.0	25.7	40.4	40.4	36.7	36.7	25.7	25.7	25.7
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3342.6	3335.2	3236.2	3173.8	3140.8	3074.7	3034.4	3005.0	2983.0	2957.3	2961.0
5°	3386.6	3360.9	3195.8	3082.1	2946.3	2872.9	2810.5	2759.2	2726.2	2718.8	2704.1
7.5°	3511.3	3375.6	3126.1	2920.6	2748.2	2674.8	2619.8	2586.7	2601.4	2568.4	2594.1
10°	3606.7	3404.9	3041.7	2744.5	2572.1	2517.0	2487.7	2513.3	2550.0	2535.4	2517.0
12.5°	3724.2	3434.3	2905.9	2575.7	2414.3	2373.9	2425.3	2473.0	2546.4	2575.7	2539.0
15°	3856.2	3467.3	2733.5	2381.3	2278.5	2311.5	2399.6	2484.0	2557.4	2594.1	2616.1
17.5°	4017.7	3456.3	2564.7	2227.2	2150.1	2245.5	2351.9	2429.0	2539.0	2594.1	2579.4
20°	4168.1	3419.6	2377.6	2073.1	2076.7	2164.8	2252.8	2377.6	2436.3	2509.7	2484.0
22.5°	4311.2	3353.6	2183.1	1966.6	1966.6	2102.4	2146.4	2227.2	2278.5	2315.2	2311.5
25°	4513.0	3228.8	2021.7	1863.9	1907.9	1996.0	2032.7	2058.4	2036.4	2065.7	2069.4
27.5°	4656.1	3100.4	1889.6	1772.2	1852.9	1919.0	1907.9	1893.3	1841.9	1801.5	1827.2
30°	4810.2	2950.0	1775.9	1709.8	1753.8	1812.5	1768.5	1724.5	1643.8	1577.7	1581.4
32.5°	5030.4	2880.3	1676.8	1636.4	1695.1	1702.5	1654.8	1588.7	1508.0	1445.6	1442.0
35°	5441.3	2836.2	1592.4	1588.7	1599.7	1603.4	1555.7	1475.0	1442.0	1390.6	1408.9
37.5°	5852.2	2814.2	1533.7	1519.0	1515.3	1519.0	1464.0	1386.9	1449.3	1445.6	1453.0
40°	6376.9	2913.3	1449.3	1431.0	1434.6	1434.6	1364.9	1342.9	1453.0	1464.0	1467.6
42.5°	6909.0	3038.0	1394.3	1335.6	1350.2	1350.2	1313.5	1287.9	1364.9	1291.5	1280.5
45°	7371.3	3221.5	1335.6	1240.2	1276.9	1295.2	1284.2	1240.2	1192.5	1067.7	1067.7
47.5°	7521.7	3382.9	1265.8	1148.4	1177.8	1258.5	1225.5	1133.8	1049.4	946.6	939.3
50°	7785.9	3559.0	1210.8	1042.0	1104.4	1203.5	1170.4	1078.7	983.3	909.9	913.6
52.5°	8057.4	3760.9	1108.1	917.3	994.3	1159.4	1159.4	1056.7	909.9	858.6	851.2
55°	8464.7	3753.5	924.6	752.2	887.9	1093.4	1111.7	946.6	814.5	774.2	774.2
56°	8523.4	3584.7	832.9	704.5	840.2	1075.1	1078.7	917.3	777.9	733.8	733.8
57.5°	8083.1	3236.2	730.2	645.8	781.5	1042.0	1045.7	891.6	748.5	686.1	678.8
60°	6219.2	2190.5	609.1	576.1	708.1	939.3	957.6	810.9	656.8	609.1	605.4
62.5°	3511.3	1214.5	535.7	521.0	609.1	799.9	854.9	708.1	557.7	532.0	539.4
65°	1603.4	667.8	451.3	421.9	491.7	616.4	689.8	583.4	458.6	429.3	429.3
67.5°	587.1	455.0	385.3	333.9	344.9	399.9	447.6	377.9	304.5	260.5	271.5
70°	418.3	381.6	337.6	289.9	267.8	260.5	256.8	212.8	150.4	117.4	124.8
72.5°	337.6	315.5	282.5	245.8	209.1	176.1	150.4	110.1	69.7	47.7	44.0
75°	242.2	231.2	205.5	176.1	146.8	124.8	102.7	69.7	36.7	18.3	18.3
77.5°	124.8	124.8	121.1	110.1	91.7	73.4	58.7	40.4	22.0	7.3	7.3
80°	95.4	102.7	106.4	95.4	84.4	66.0	47.7	29.4	14.7	3.7	3.7
82.5°	91.7	106.4	113.7	99.1	84.4	62.4	47.7	29.4	14.7	3.7	3.7
85°	22.0	22.0	33.0	36.7	47.7	51.4	40.4	25.7	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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)