

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: P530501

Luminaire Tested: **GALN-SA5D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530501
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-SA5D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 19112 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

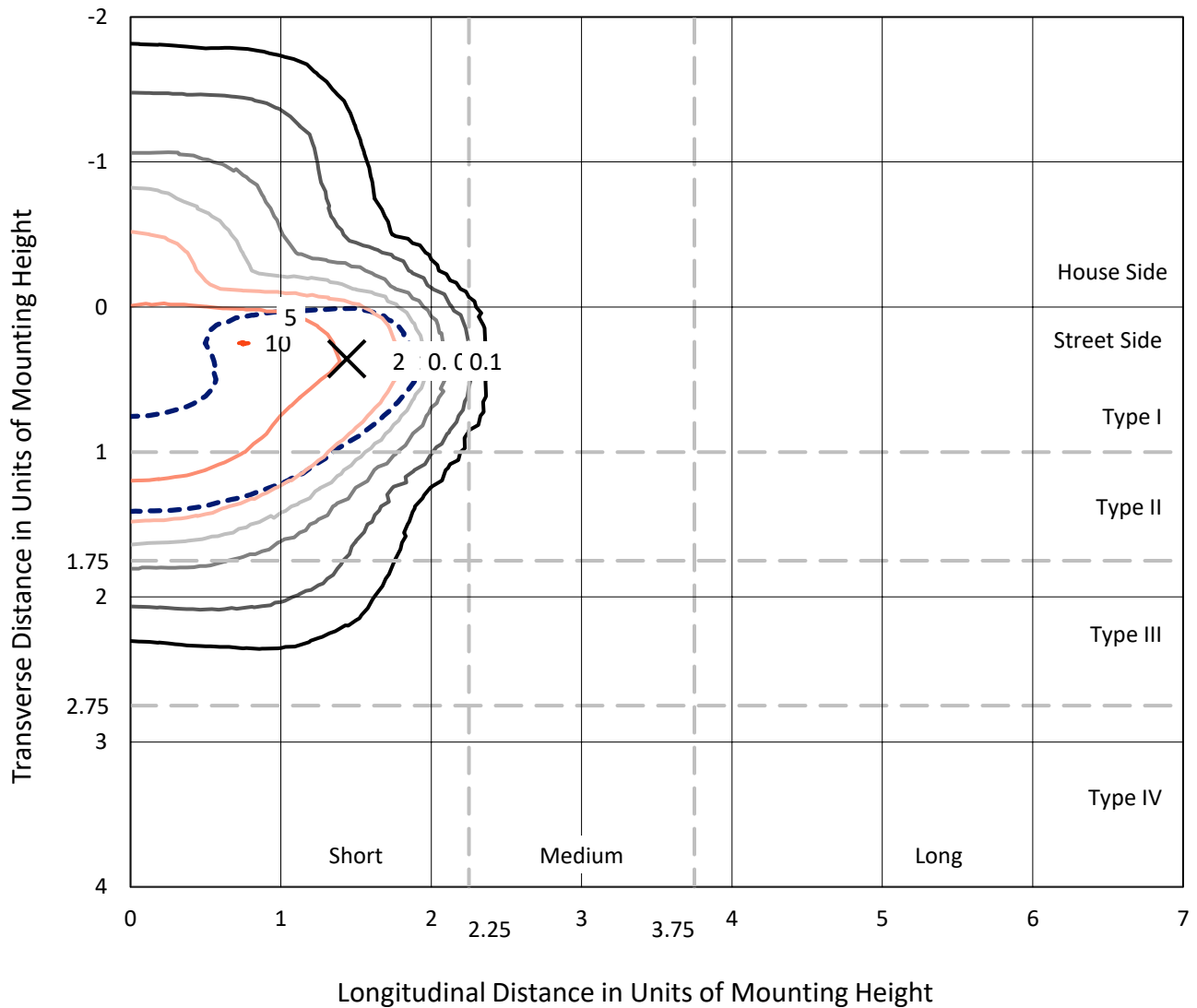
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

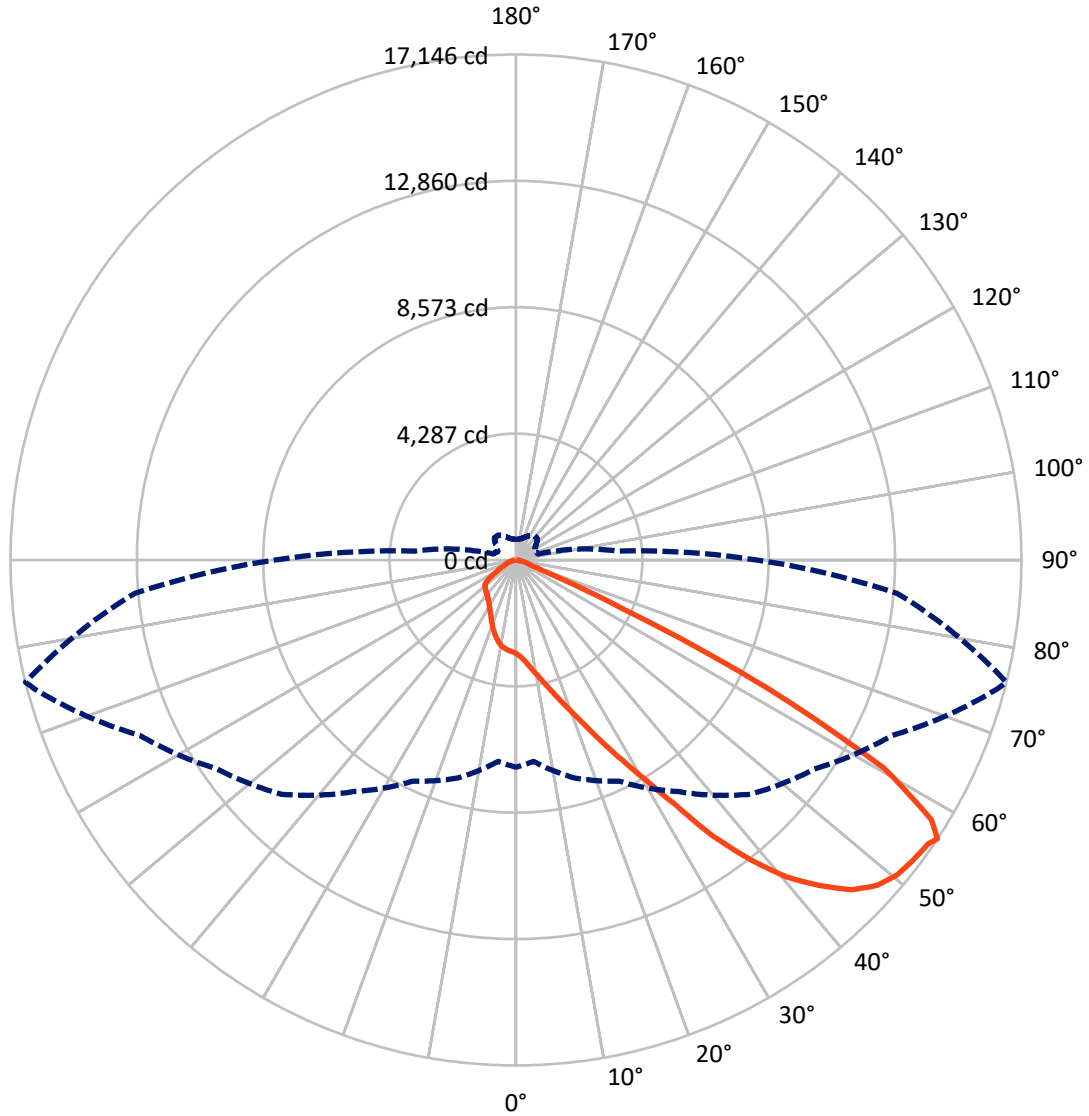
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3002.4	0.0	3002.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16109.6	0.0	16109.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	19112.0	0.0	19112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	1.7
10°-20°	1029.5	5.4
20°-30°	1866.8	9.8
30°-40°	3219.4	16.8
40°-50°	5230.0	27.4
50°-60°	5512.6	28.8
60°-70°	1684.4	8.8
70°-80°	215.9	1.1
80°-90°	32.8	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°	19112.0	100.0
0°-180°	19112.0	100.0

Coefficient of Utilization

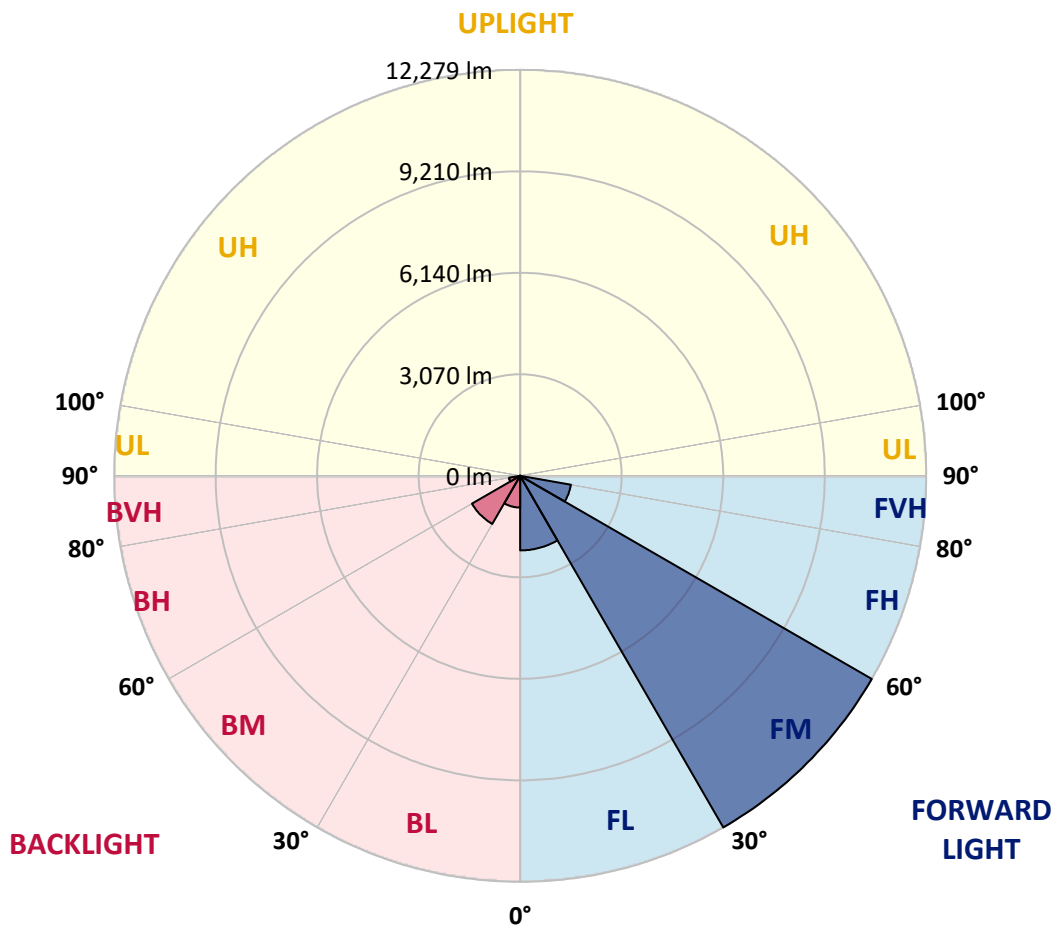


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.3	11.8			
FM (30°-60°)	12279.4	64.2			
FH (60°-80°)	1557.7	8.2			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	960.5	5.0	B2/1000		
BM (30°-60°)	1682.7	8.8	B2/2500		
BH (60°-80°)	342.5	1.8	B1/500		G1/500
BVH (80°-90°)	16.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3663.9	3579.3	3582.8	3575.8	3565.2	3526.5	3410.2	3392.6	3315.1	3294.0	3223.5
5°	4104.2	4030.3	4072.5	4009.1	3949.2	3914.0	3723.8	3635.7	3512.4	3466.6	3367.9
7.5°	4379.0	4343.8	4329.7	4333.2	4276.9	4188.8	4104.2	3910.5	3744.9	3709.7	3501.8
10°	4512.9	4491.8	4512.9	4502.3	4527.0	4537.6	4389.6	4273.3	4030.3	3970.4	3646.3
12.5°	4544.6	4586.9	4604.5	4650.3	4710.2	4812.3	4801.8	4643.2	4319.1	4280.4	3868.2
15°	4622.1	4657.3	4639.7	4713.7	4826.4	4999.1	5090.7	5066.0	4717.2	4646.8	4125.4
17.5°	4692.6	4629.2	4689.0	4837.0	4949.7	5214.0	5435.9	5538.1	5150.5	5069.5	4361.4
20°	4787.7	4770.1	4759.5	4833.5	5034.3	5386.6	5827.0	6013.7	5636.7	5552.2	4699.6
22.5°	5076.6	5080.1	5073.0	4963.8	5108.3	5506.4	6168.7	6630.2	6218.0	6147.5	5083.6
25°	5457.0	5411.2	5376.0	5287.9	5270.3	5615.6	6513.9	7384.1	6915.5	6866.2	5499.3
27.5°	5858.7	5858.7	5753.0	5671.9	5559.2	5886.8	6831.0	8116.9	7757.5	7690.6	5862.2
30°	6295.5	6320.2	6306.1	6133.5	6063.0	6182.8	7155.1	9054.0	8722.8	8638.3	6461.1
32.5°	6940.2	6887.4	6947.3	6802.8	6595.0	6700.6	7665.9	9892.4	9977.0	9857.2	7246.7
35°	7792.8	7761.1	7722.3	7486.3	7239.7	7324.2	8388.1	10924.7	11551.7	11491.9	8039.4
37.5°	8557.2	8539.6	8507.9	8345.9	8060.5	8162.7	9209.0	11999.2	13087.7	12890.5	9159.7
40°	9360.5	9455.6	9353.4	9209.0	8948.3	9173.8	10174.3	12636.8	14380.7	14141.1	10015.7
42.5°	10449.1	10375.1	10420.9	10156.7	10015.7	10262.3	11143.1	13274.5	15384.7	15099.4	10924.7
45°	11608.1	11611.6	11488.3	11403.8	11037.4	11305.1	11738.5	13626.8	16184.4	15962.5	11611.6
47.5°	12351.5	12347.9	12481.8	12615.7	12238.7	11974.5	12143.6	13961.4	16596.6	16494.4	11861.8
50°	12235.2	12270.4	12443.0	12943.3	13140.6	12784.8	12524.1	13862.8	16783.3	16772.8	12076.7
52.5°	10642.8	10759.1	11048.0	11770.2	12763.6	13204.0	12922.2	14046.0	16874.9	16892.5	12397.3
55°	8102.8	8166.2	8715.8	9593.0	10692.1	12200.0	12763.6	14190.4	16945.4	16977.1	12784.8
56°	7028.3	6859.2	7651.8	8275.4	9589.5	11238.2	12362.0	14077.7	16903.1	17146.2	12978.5
57.5°	5305.6	5192.8	5834.0	6612.6	7877.3	9617.6	11114.9	13545.7	16617.7	16614.2	12700.2
60°	3227.0	3114.3	3607.5	4065.5	4773.6	5922.1	7510.9	10787.3	14049.5	14345.4	10283.5
62.5°	1920.0	1990.5	2476.6	2754.9	2983.9	3103.7	3885.8	6411.8	9374.6	9585.9	6380.1
65°	1278.8	1303.5	1669.9	2127.9	2230.0	1775.6	1581.8	2596.4	4065.5	3935.1	2631.6
67.5°	789.1	845.5	1120.3	1599.4	1772.0	1296.4	750.4	968.8	1120.3	1120.3	761.0
70°	479.1	507.3	746.9	1088.6	1215.4	834.9	546.1	546.1	539.0	528.4	454.5
72.5°	229.0	246.6	380.5	560.1	570.7	440.4	422.8	461.5	450.9	447.4	377.0
75°	98.6	105.7	133.9	176.1	200.8	186.7	257.2	331.2	341.7	331.2	271.3
77.5°	31.7	35.2	49.3	63.4	66.9	81.0	109.2	137.4	158.5	148.0	133.9
80°	3.5	7.0	14.1	31.7	49.3	63.4	81.0	91.6	102.2	102.2	95.1
82.5°	3.5	3.5	14.1	28.2	45.8	59.9	77.5	88.1	102.2	105.7	98.6
85°	0.0	3.5	10.6	24.7	38.8	38.8	35.2	35.2	24.7	24.7	24.7
87.5°	0.0	0.0	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3209.4	3202.4	3107.2	3047.3	3015.6	2952.2	2913.5	2885.3	2864.2	2839.5	2843.0
5°	3251.7	3227.0	3068.5	2959.3	2828.9	2758.5	2698.6	2649.3	2617.5	2610.5	2596.4
7.5°	3371.5	3241.1	3001.6	2804.3	2638.7	2568.2	2515.4	2483.7	2497.8	2466.1	2490.7
10°	3463.1	3269.3	2920.5	2635.2	2469.6	2416.7	2388.6	2413.2	2448.4	2434.4	2416.7
12.5°	3575.8	3297.5	2790.2	2473.1	2318.1	2279.3	2328.7	2374.5	2444.9	2473.1	2437.9
15°	3702.6	3329.2	2624.6	2286.4	2187.8	2219.5	2304.0	2385.0	2455.5	2490.7	2511.9
17.5°	3857.6	3318.6	2462.5	2138.4	2064.4	2156.0	2258.2	2332.2	2437.9	2490.7	2476.6
20°	4002.1	3283.4	2282.9	1990.5	1994.0	2078.5	2163.1	2282.9	2339.2	2409.7	2385.0
22.5°	4139.5	3220.0	2096.2	1888.3	1888.3	2018.6	2060.9	2138.4	2187.8	2223.0	2219.5
25°	4333.2	3100.2	1941.1	1789.7	1831.9	1916.5	1951.7	1976.4	1955.2	1983.4	1986.9
27.5°	4470.6	2976.9	1814.3	1701.6	1779.1	1842.5	1831.9	1817.8	1768.5	1729.8	1754.4
30°	4618.6	2832.4	1705.1	1641.7	1684.0	1740.3	1698.1	1655.8	1578.3	1514.9	1518.4
32.5°	4830.0	2765.5	1610.0	1571.2	1627.6	1634.6	1588.8	1525.4	1447.9	1388.0	1384.5
35°	5224.5	2723.2	1529.0	1525.4	1536.0	1539.5	1493.7	1416.2	1384.5	1335.2	1352.8
37.5°	5619.1	2702.1	1472.6	1458.5	1455.0	1458.5	1405.7	1331.7	1391.6	1388.0	1395.1
40°	6122.9	2797.2	1391.6	1373.9	1377.5	1377.5	1310.5	1289.4	1395.1	1405.7	1409.2
42.5°	6633.7	2917.0	1338.7	1282.4	1296.4	1296.4	1261.2	1236.6	1310.5	1240.1	1229.5
45°	7077.6	3093.1	1282.4	1190.8	1226.0	1243.6	1233.0	1190.8	1145.0	1025.2	1025.2
47.5°	7222.0	3248.2	1215.4	1102.7	1130.9	1208.4	1176.7	1088.6	1007.6	908.9	901.9
50°	7475.7	3417.3	1162.6	1000.5	1060.4	1155.5	1123.8	1035.7	944.1	873.7	877.2
52.5°	7736.4	3611.0	1063.9	880.7	954.7	1113.3	1113.3	1014.6	873.7	824.4	817.3
55°	8127.4	3604.0	887.8	722.2	852.6	1049.8	1067.5	908.9	782.1	743.3	743.3
56°	8183.8	3441.9	799.7	676.4	806.8	1032.2	1035.7	880.7	746.9	704.6	704.6
57.5°	7761.1	3107.2	701.1	620.0	750.4	1000.5	1004.0	856.1	718.7	658.8	651.7
60°	5971.4	2103.2	584.8	553.1	679.9	901.9	919.5	778.6	630.6	584.8	581.3
62.5°	3371.5	1166.1	514.4	500.3	584.8	768.0	820.8	679.9	535.5	510.8	517.9
65°	1539.5	641.2	433.3	405.1	472.1	591.9	662.3	560.1	440.4	412.2	412.2
67.5°	563.7	436.8	369.9	320.6	331.2	384.0	429.8	362.9	292.4	250.1	260.7
70°	401.6	366.4	324.1	278.3	257.2	250.1	246.6	204.3	144.4	112.7	119.8
72.5°	324.1	303.0	271.3	236.0	200.8	169.1	144.4	105.7	66.9	45.8	42.3
75°	232.5	221.9	197.3	169.1	140.9	119.8	98.6	66.9	35.2	17.6	17.6
77.5°	119.8	119.8	116.3	105.7	88.1	70.5	56.4	38.8	21.1	7.0	7.0
80°	91.6	98.6	102.2	91.6	81.0	63.4	45.8	28.2	14.1	3.5	3.5
82.5°	88.1	102.2	109.2	95.1	81.0	59.9	45.8	28.2	14.1	3.5	3.5
85°	21.1	21.1	31.7	35.2	45.8	49.3	38.8	24.7	10.6	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	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)