

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: P527776

Luminaire Tested: **GALN-SA2D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13263 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

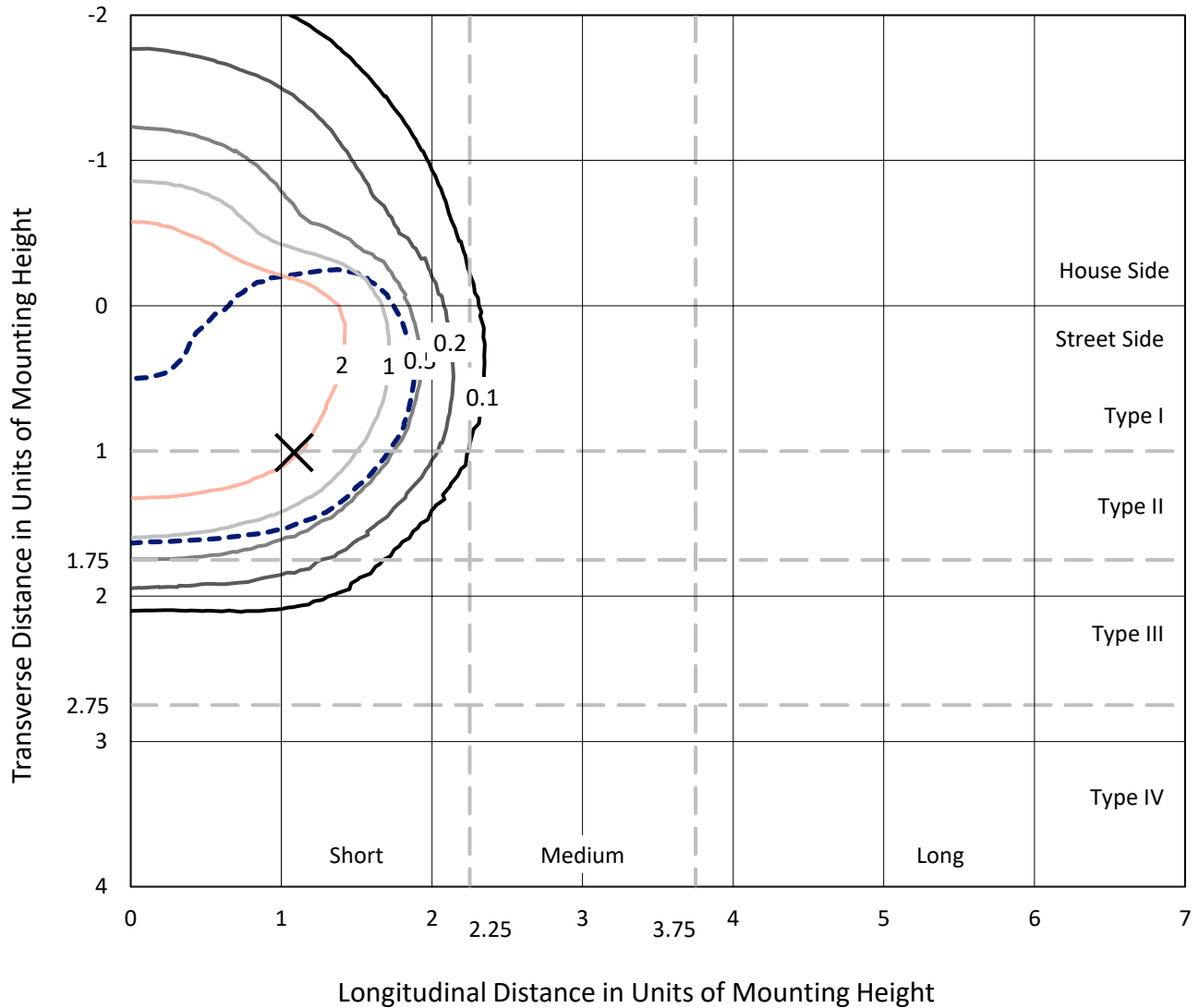
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

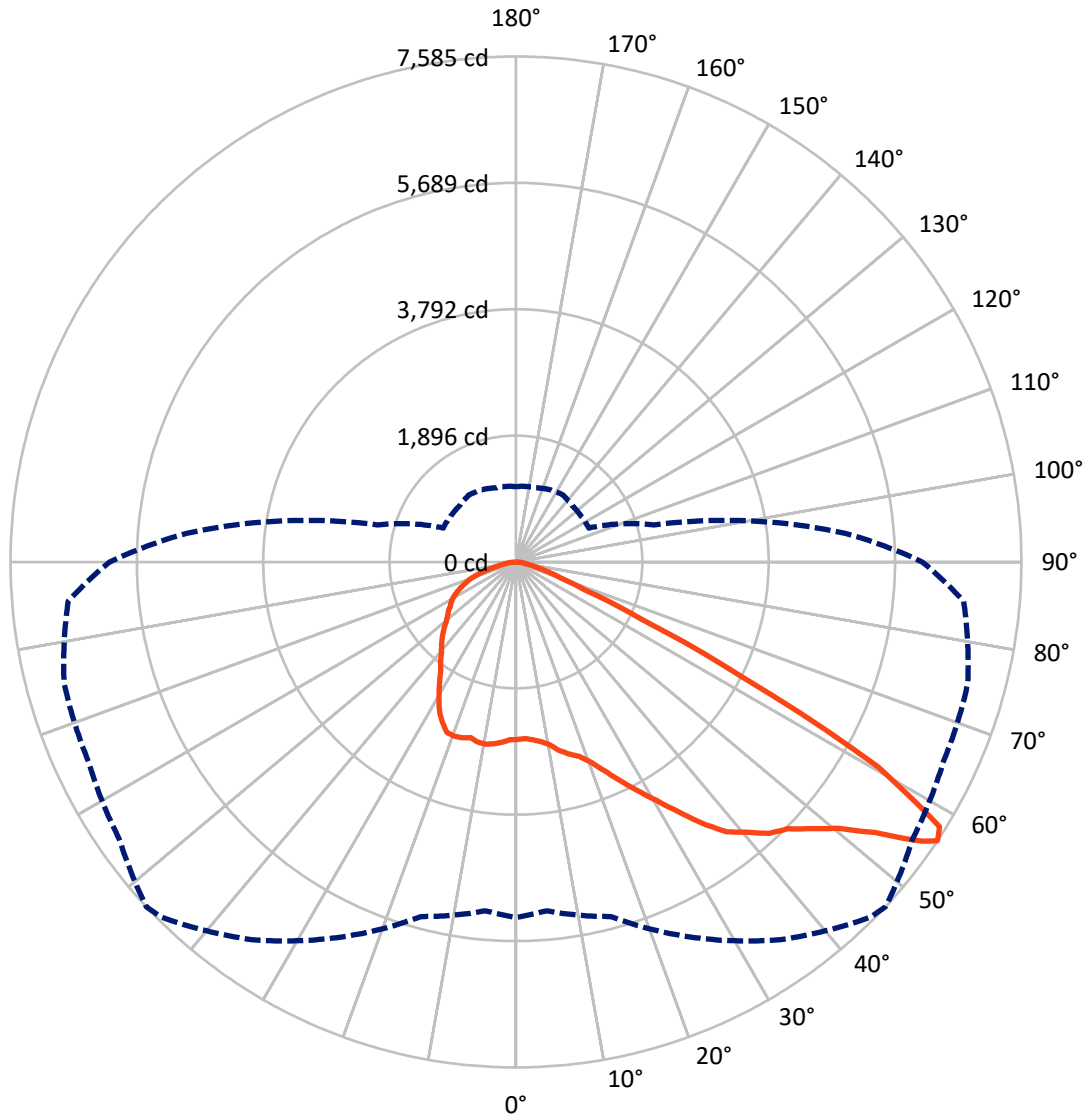
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4202.9	0.0	4202.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9060.1	0.0	9060.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	13263.0	0.0	13263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	2.0
10°-20°	818.9	6.2
20°-30°	1447.5	10.9
30°-40°	2174.2	16.4
40°-50°	2983.8	22.5
50°-60°	3554.8	26.8
60°-70°	1521.3	11.5
70°-80°	430.5	3.2
80°-90°	72.4	0.5
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°	13263.0	100.0
0°-180°	13263.0	100.0

Coefficient of Utilization



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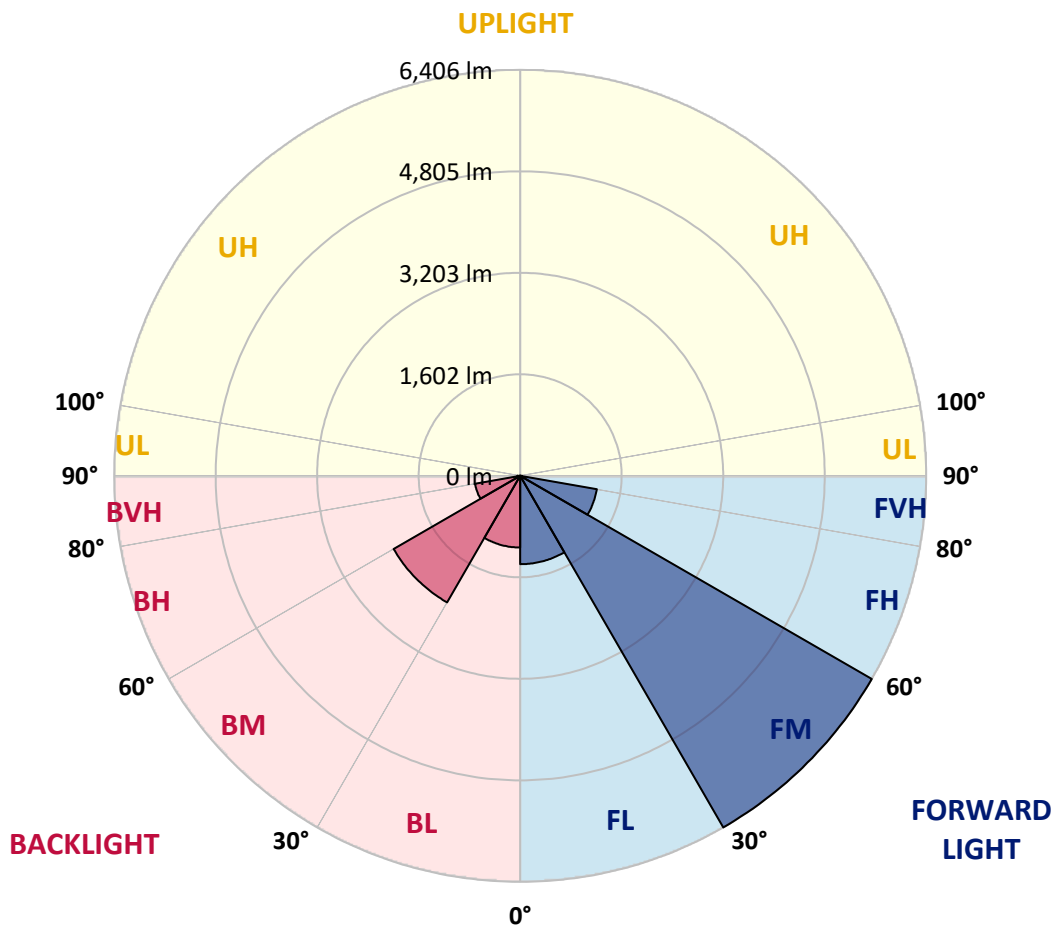
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.4	10.5			
FM (30°-60°)	6406.3	48.3			
FH (60°-80°)	1228.6	9.3			G1/1800
FVH (80°-90°)	30.7	0.2			G1/100
BL (0°-30°)	1131.6	8.5	B3/2500		
BM (30°-60°)	2306.5	17.4	B2/2500		
BH (60°-80°)	723.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	41.7	0.3			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°	47°	55°	65°	75°	85°
0°	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1
2.5°	2654.0	2648.9	2645.5	2672.6	2662.4	2664.1	2654.0	2664.1	2670.9	2655.7	2677.7
5°	2648.9	2664.1	2650.6	2659.1	2681.0	2674.3	2681.0	2701.3	2696.3	2691.2	2684.4
7.5°	2696.3	2698.0	2708.1	2711.5	2718.3	2711.5	2721.6	2740.3	2735.2	2706.4	2709.8
10°	2763.9	2767.3	2769.0	2787.6	2799.5	2801.1	2789.3	2772.4	2770.7	2809.6	2782.5
12.5°	2841.7	2833.3	2853.6	2860.3	2873.9	2889.1	2904.3	2868.8	2890.8	2892.5	2860.3
15°	2955.1	2963.5	2939.9	2939.9	2944.9	2946.6	2988.9	2972.0	2968.6	2950.0	2963.5
17.5°	3124.2	3066.7	3065.0	3041.3	3038.0	3051.5	3066.7	3080.2	3125.9	3088.7	3016.0
20°	3247.7	3261.2	3212.2	3183.4	3188.5	3219.0	3203.7	3264.6	3296.8	3235.9	3164.8
22.5°	3465.9	3420.2	3432.1	3367.8	3372.9	3405.0	3403.3	3465.9	3484.5	3388.1	3284.9
25°	3613.1	3601.2	3611.4	3560.6	3567.4	3592.8	3633.4	3736.6	3706.1	3599.5	3361.0
27.5°	3827.9	3804.2	3795.8	3777.1	3770.4	3838.0	3885.4	3995.4	3973.4	3817.7	3496.4
30°	4047.8	4032.6	4041.0	3964.9	3992.0	4135.8	4149.3	4299.8	4289.7	4015.7	3646.9
32.5°	4200.0	4208.5	4223.7	4181.4	4301.5	4416.5	4462.2	4633.1	4641.5	4355.6	3937.8
35°	4445.3	4416.5	4425.0	4474.1	4529.9	4739.6	4814.0	4927.4	4998.4	4712.6	4216.9
37.5°	4599.2	4629.7	4594.2	4672.0	4817.4	5069.5	5137.1	5253.8	5328.3	5064.4	4597.5
40°	4839.4	4790.4	4815.7	4871.6	5020.4	5348.6	5330.0	5450.1	5473.7	5363.8	4952.8
42.5°	5098.2	5074.5	5039.0	5165.9	5291.1	5529.6	5566.8	5511.0	5631.0	5656.4	5460.2
45°	5407.8	5436.5	5441.6	5445.0	5554.9	5763.0	5712.2	5663.2	5801.9	5986.3	5774.8
47.5°	5695.3	5604.0	5670.0	5761.3	5916.9	5918.6	5977.8	5861.1	6008.3	6172.3	6059.0
50°	5791.7	5747.8	5835.7	6008.3	6248.5	6273.8	6280.6	6114.8	6190.9	6321.2	6157.1
52.5°	5754.5	5739.3	5964.3	6231.5	6583.4	6711.9	6745.8	6541.1	6583.4	6524.2	6373.6
55°	5576.9	5622.6	5849.3	6393.9	6933.5	7331.0	7395.3	7136.5	6867.5	6913.2	6747.4
56°	5333.3	5253.8	5507.6	6209.5	6918.3	7532.3	7584.7	7261.7	7079.0	7019.8	6744.1
57.5°	4524.8	4421.6	4754.8	5587.1	6534.3	7456.2	7495.1	7314.1	7043.5	6923.4	6251.8
60°	2648.9	2699.7	3122.5	3853.3	5040.7	6113.1	6243.4	6375.3	6194.3	5656.4	4653.4
62.5°	1278.8	1246.6	1549.4	2209.1	3071.8	3902.3	3863.4	4233.9	4436.8	4019.0	2938.2
65°	669.8	666.5	845.8	1206.0	1688.1	2050.1	2085.6	2285.2	2564.3	2070.4	1491.9
67.5°	492.2	505.8	595.4	847.4	1086.0	1107.9	1102.9	1202.7	1229.7	1040.3	916.8
70°	385.7	392.4	458.4	644.5	808.5	724.0	708.7	720.6	800.1	833.9	793.3
72.5°	279.1	285.9	341.7	434.7	505.8	493.9	504.1	570.0	668.1	703.7	661.4
75°	186.1	191.1	221.6	265.6	299.4	323.1	341.7	417.8	509.1	529.4	509.1
77.5°	128.6	133.6	153.9	187.8	191.1	206.4	213.1	248.7	304.5	329.8	316.3
80°	72.7	72.7	82.9	96.4	118.4	138.7	142.1	170.8	196.2	213.1	216.5
82.5°	33.8	35.5	44.0	59.2	77.8	96.4	99.8	118.4	137.0	153.9	159.0
85°	16.9	18.6	25.4	35.5	47.4	57.5	55.8	57.5	60.9	57.5	59.2
87.5°	5.1	5.1	6.8	8.5	6.8	8.5	8.5	10.1	11.8	13.5	15.2
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°	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1	2664.1
2.5°	2679.4	2684.4	2650.6	2682.7	2670.9	2669.2	2692.9	2689.5	2698.0	2694.6	2674.3
5°	2681.0	2669.2	2704.7	2672.6	2687.8	2720.0	2698.0	2748.7	2723.3	2740.3	2703.0
7.5°	2733.5	2736.9	2730.1	2743.6	2736.9	2752.1	2740.3	2752.1	2731.8	2733.5	2767.3
10°	2779.2	2769.0	2780.8	2763.9	2775.8	2770.7	2743.6	2735.2	2741.9	2733.5	2755.5
12.5°	2863.7	2845.1	2836.7	2816.4	2802.8	2752.1	2709.8	2686.1	2718.3	2723.3	2713.2
15°	2950.0	2951.7	2912.8	2867.1	2782.5	2706.4	2716.6	2725.0	2725.0	2738.6	2713.2
17.5°	3004.1	3004.1	2968.6	2877.3	2791.0	2747.0	2736.9	2709.8	2686.1	2682.7	2681.0
20°	3098.9	3070.1	2988.9	2875.6	2787.6	2767.3	2691.2	2626.9	2577.9	2561.0	2559.3
22.5°	3207.1	3134.4	3021.0	2879.0	2782.5	2753.8	2611.7	2515.3	2427.3	2390.1	2395.2
25°	3306.9	3190.2	3039.6	2863.7	2763.9	2625.2	2466.2	2332.6	2241.3	2210.8	2195.6
27.5°	3376.3	3249.4	3039.6	2877.3	2694.6	2481.5	2319.1	2148.2	2068.7	2048.4	2051.8
30°	3469.3	3323.8	3092.1	2848.5	2555.9	2295.4	2100.9	1989.2	1941.9	1924.9	1936.8
32.5°	3687.5	3518.3	3164.8	2779.2	2391.8	2109.3	1952.0	1889.4	1820.1	1786.2	1774.4
35°	3924.3	3702.7	3235.9	2662.4	2207.4	1940.2	1842.1	1784.5	1701.7	1664.4	1671.2
37.5°	4259.2	3939.5	3240.9	2469.6	2007.8	1845.4	1755.8	1666.1	1598.5	1541.0	1524.1
40°	4710.9	4262.6	3229.1	2266.6	1847.1	1733.8	1667.8	1556.2	1480.1	1439.5	1447.9
42.5°	5108.4	4641.5	3180.0	2036.6	1701.7	1657.7	1583.3	1473.3	1398.9	1356.6	1353.2
45°	5443.3	4920.6	3087.0	1840.4	1579.9	1573.1	1486.8	1402.3	1343.1	1304.2	1321.1
47.5°	5752.8	5145.6	2946.6	1644.2	1468.2	1481.8	1398.9	1346.4	1309.2	1273.7	1272.0
50°	5864.5	5142.2	2823.1	1481.8	1378.6	1371.8	1368.4	1312.6	1273.7	1243.3	1256.8
52.5°	6050.5	5199.7	2689.5	1370.1	1297.4	1299.1	1310.9	1270.3	1226.3	1207.7	1224.7
55°	6317.8	5208.2	2395.2	1239.9	1229.7	1241.6	1241.6	1214.5	1177.3	1162.1	1153.6
56°	6099.6	4956.1	2148.2	1206.0	1195.9	1195.9	1228.0	1197.6	1151.9	1140.1	1129.9
57.5°	5626.0	4342.1	1798.1	1165.5	1150.2	1173.9	1190.8	1158.7	1116.4	1099.5	1109.6
60°	3880.3	2938.2	1351.5	1077.5	1077.5	1116.4	1129.9	1082.6	1064.0	1062.3	1048.7
62.5°	2264.9	1711.8	1057.2	998.0	1001.4	1033.5	1043.7	1016.6	992.9	1021.7	1035.2
65°	1201.0	1021.7	906.7	913.4	915.1	940.5	984.5	982.8	981.1	989.5	991.2
67.5°	869.4	849.1	823.8	817.0	820.4	839.0	883.0	916.8	915.1	894.8	879.6
70°	774.7	746.0	730.7	732.4	718.9	740.9	776.4	798.4	759.5	735.8	725.7
72.5°	644.5	636.0	625.9	627.6	600.5	595.4	554.8	554.8	544.7	537.9	549.7
75°	492.2	488.8	493.9	485.5	456.7	426.3	402.6	380.6	346.8	333.2	326.5
77.5°	311.2	321.4	333.2	314.6	302.8	280.8	257.1	235.1	208.1	192.8	192.8
80°	211.4	219.9	228.4	225.0	211.4	191.1	172.5	148.9	130.2	118.4	116.7
82.5°	160.7	167.5	179.3	165.8	152.2	135.3	120.1	103.2	86.3	72.7	72.7
85°	57.5	66.0	72.7	79.5	84.6	86.3	74.4	60.9	49.1	38.9	37.2
87.5°	15.2	16.9	18.6	16.9	16.9	16.9	18.6	16.9	15.2	11.8	11.8
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)