

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: P651978

Luminaire Tested: **GALN-SA6A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22616.2 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

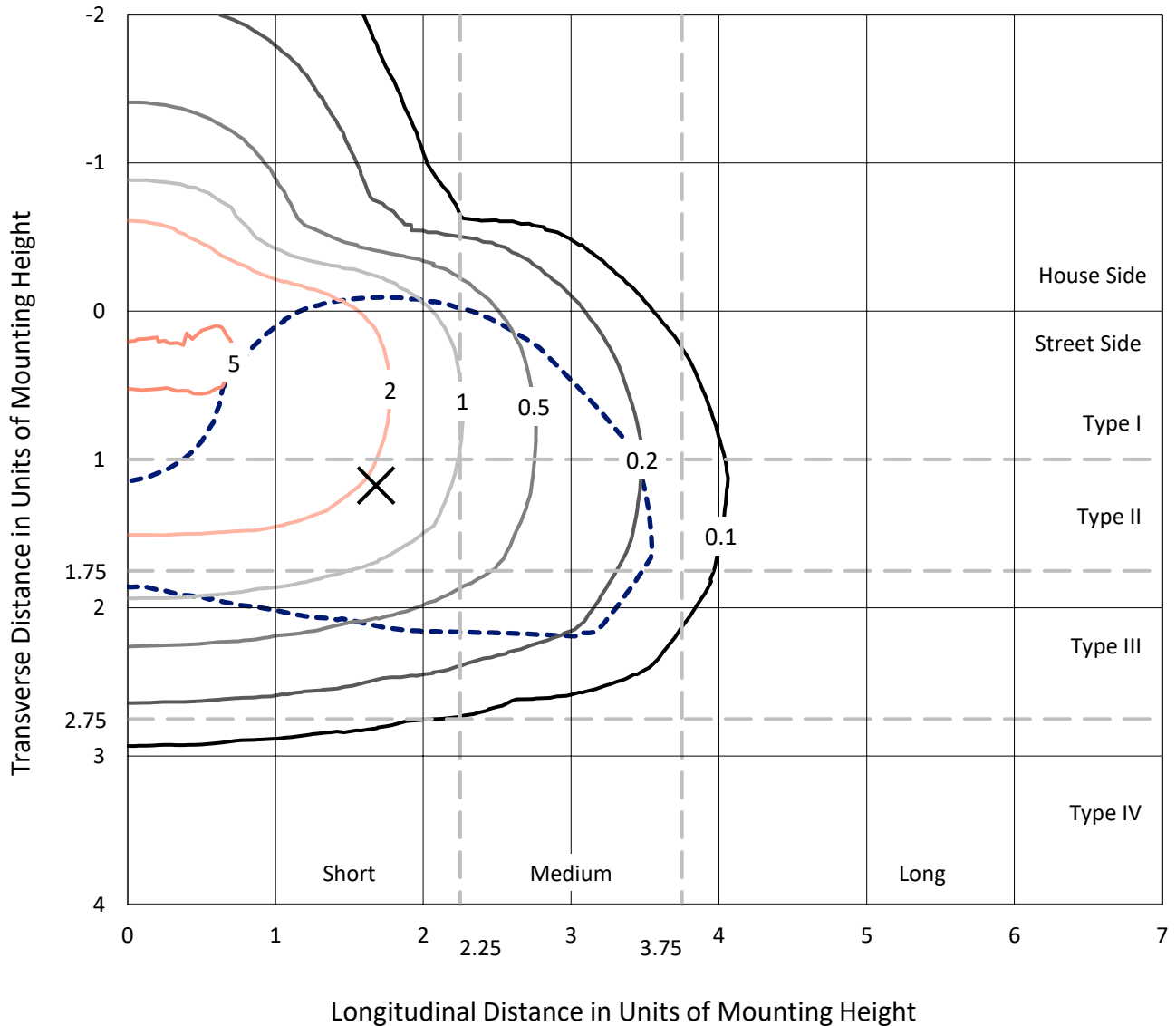
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

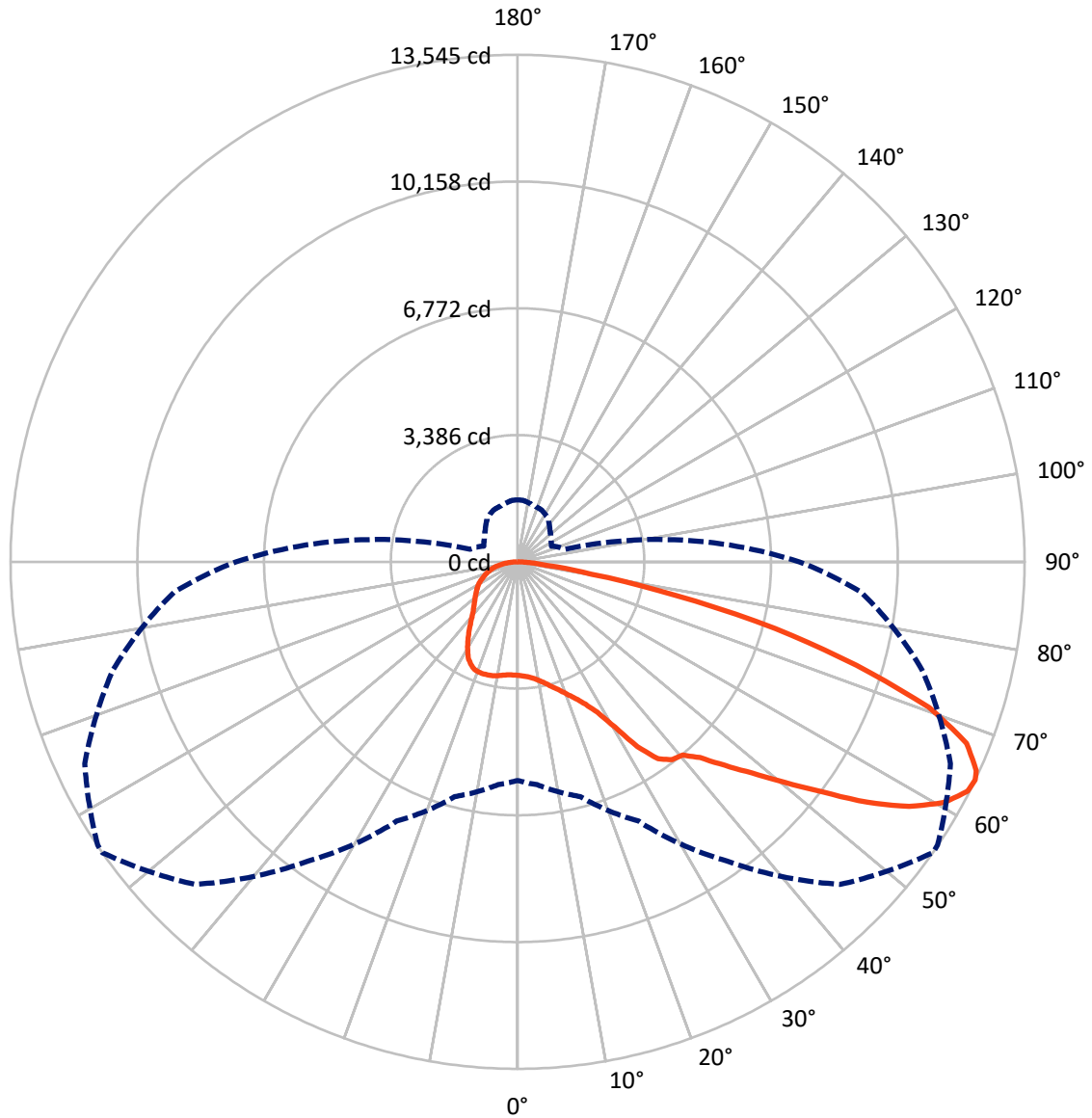
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5493.9	0.0	5493.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17122.3	0.0	17122.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	22616.2	0.0	22616.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.3
10°-20°	931.3	4.1
20°-30°	1658.0	7.3
30°-40°	2551.1	11.3
40°-50°	3616.3	16.0
50°-60°	5234.6	23.1
60°-70°	5417.2	24.0
70°-80°	2536.9	11.2
80°-90°	375.6	1.7
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°	22616.2	100.0
0°-180°	22616.2	100.0

Coefficient of Utilization



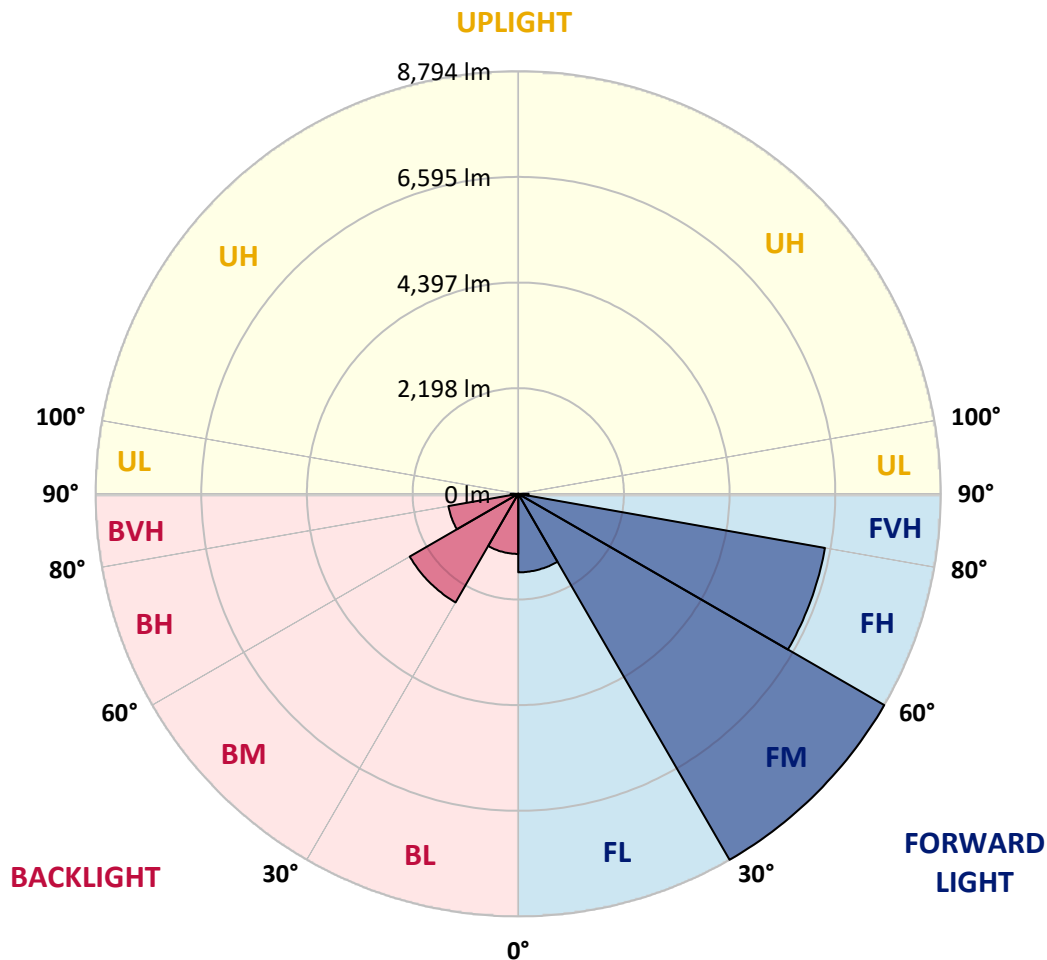
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.2	7.2			
FM (30°-60°)	8793.8	38.9			
FH (60°-80°)	6480.2	28.7			G3/7500
FVH (80°-90°)	215.0	1.0			G2/225
BL (0°-30°)	1251.3	5.5	B3/2500		
BM (30°-60°)	2608.2	11.5	B3/5000		
BH (60°-80°)	1473.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	160.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4
2.5°	3068.5	3067.2	3071.0	3067.2	3069.7	3060.9	3057.1	3059.6	3055.9	3049.6	3038.2
5°	3106.2	3105.0	3106.2	3101.2	3103.7	3098.7	3089.9	3092.4	3086.1	3072.3	3055.9
7.5°	3170.6	3165.5	3165.5	3164.3	3159.2	3151.6	3145.3	3142.8	3136.5	3118.8	3093.6
10°	3253.7	3253.7	3255.0	3244.9	3251.2	3237.3	3231.0	3229.8	3208.4	3185.7	3150.4
12.5°	3363.4	3369.7	3365.9	3360.9	3358.4	3353.3	3332.0	3337.0	3313.0	3273.9	3231.0
15°	3499.6	3509.7	3503.4	3500.8	3494.5	3475.6	3466.9	3463.1	3431.5	3374.8	3318.1
17.5°	3679.9	3667.3	3662.2	3655.9	3629.4	3615.5	3600.4	3597.9	3570.2	3503.4	3415.1
20°	3837.5	3855.1	3845.1	3838.7	3812.3	3785.8	3774.4	3770.6	3746.7	3673.6	3532.4
22.5°	4025.3	4029.1	4032.8	4017.7	4005.1	3984.9	3964.8	3958.5	3949.7	3874.0	3701.3
25°	4225.8	4240.8	4228.2	4213.2	4198.0	4196.8	4215.7	4213.2	4209.4	4136.2	3925.7
27.5°	4552.2	4566.1	4569.9	4553.5	4495.5	4500.5	4543.4	4557.3	4615.2	4494.2	4214.4
30°	4736.3	4750.1	4781.7	4843.5	4935.5	5016.1	5119.5	5151.0	5206.5	4978.4	4557.3
32.5°	4849.8	4854.8	4911.5	5026.2	5302.3	5603.7	5884.7	5896.1	5931.4	5611.2	4871.2
35°	5028.8	5032.5	5078.0	5204.0	5528.0	6029.7	6464.7	6478.6	6449.5	5807.9	5017.4
37.5°	5249.4	5259.4	5288.5	5393.1	5780.1	6386.5	6705.5	6695.4	6438.2	5964.2	5275.8
40°	5570.9	5570.9	5536.8	5678.0	6046.1	6590.7	6789.9	6772.2	6704.2	6416.7	5669.2
42.5°	5854.5	5849.5	5930.1	6025.9	6378.9	6905.9	7144.1	7173.1	7285.3	6985.3	6116.8
45°	6223.9	6246.5	6291.9	6465.9	6945.0	7444.2	7751.8	7779.5	7938.4	7654.7	6639.9
47.5°	6597.1	6604.6	6747.1	6979.0	7645.9	8174.1	8426.2	8471.6	8616.6	8437.6	7203.4
50°	6861.8	6933.6	7161.8	7527.4	8368.3	9064.1	9260.8	9315.0	9570.9	9289.8	7860.2
52.5°	7141.6	7212.2	7490.9	8048.0	9197.8	9974.3	10216.4	10253.0	10519.0	10152.1	8532.1
55°	7381.1	7446.7	7763.1	8509.5	9858.4	10903.5	11342.1	11299.3	11426.6	10816.4	9050.3
57.5°	7420.2	7473.2	7871.6	8804.4	10355.1	11700.2	12329.2	12354.5	12206.9	11313.1	9477.6
60°	7117.7	7226.1	7683.7	8772.9	10578.2	12254.9	13065.4	13083.1	12664.6	11567.8	9647.9
62.5°	6581.9	6570.6	7124.0	8266.1	10265.6	12380.9	13499.1	13480.2	12843.6	11445.5	9482.7
64°	5841.9	5978.1	6495.0	7643.3	9761.3	12186.8	13544.6	13534.5	12757.9	11190.9	9201.5
65°	5390.6	5383.0	5893.6	7134.0	9259.6	11894.3	13463.8	13449.9	12578.8	10962.7	8983.5
67.5°	3891.6	3909.3	4413.6	5505.3	7527.4	10750.9	12938.1	12886.5	11872.9	10206.3	8153.9
70°	2357.4	2367.5	2763.4	3652.1	5403.2	8691.0	11662.4	11664.9	10792.5	9076.7	6939.9
72.5°	1241.7	1268.2	1427.1	2073.8	3281.5	6097.8	9461.2	9685.6	9265.9	7746.8	5482.6
75°	690.9	694.6	806.9	1022.4	1674.2	3412.6	7111.4	7175.7	7335.8	6235.3	4054.3
77.5°	527.0	534.5	569.8	660.6	911.5	1582.1	4303.9	4626.6	5170.0	4395.9	2313.3
80°	427.4	435.0	465.2	519.4	606.4	750.1	1999.4	2173.4	2767.1	1951.5	902.6
82.5°	332.8	327.7	366.8	402.2	441.3	443.7	820.6	907.7	1127.0	839.6	390.8
85°	247.1	247.1	278.6	271.1	284.9	259.7	361.8	399.6	451.3	356.8	181.6
87.5°	98.3	108.4	182.8	163.9	127.3	102.1	133.6	141.2	156.3	139.9	75.6
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°	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4	3034.4
2.5°	3039.5	3043.2	3034.4	3028.1	3025.6	3021.8	3018.0	3019.3	3024.3	3029.4	3028.1
5°	3054.6	3055.9	3040.7	3033.2	3028.1	3023.1	3023.1	3026.8	3036.9	3044.5	3044.5
7.5°	3092.4	3092.4	3071.0	3057.1	3049.6	3040.7	3038.2	3039.5	3047.0	3057.1	3058.4
10°	3151.6	3146.6	3118.8	3097.4	3083.6	3062.2	3043.2	3033.2	3036.9	3043.2	3043.2
12.5°	3223.5	3209.7	3174.4	3145.3	3111.3	3071.0	3031.9	3011.7	3010.4	3016.8	3014.2
15°	3300.4	3285.3	3236.1	3183.2	3123.9	3064.7	3018.0	2989.0	2966.3	2960.1	2973.9
17.5°	3389.9	3358.4	3290.3	3217.2	3128.9	3052.1	2978.9	2919.7	2879.3	2868.0	2871.8
20°	3498.3	3456.8	3364.7	3250.0	3125.2	3006.7	2893.2	2813.8	2748.2	2728.0	2730.6
22.5°	3648.3	3576.5	3441.6	3266.4	3093.6	2921.0	2763.4	2660.0	2580.6	2549.1	2568.0
25°	3818.6	3740.3	3514.7	3262.6	3011.7	2783.5	2609.5	2474.6	2402.8	2356.1	2366.2
27.5°	4053.0	3914.4	3592.9	3228.5	2894.5	2615.8	2414.2	2286.8	2221.2	2197.4	2208.6
30°	4353.0	4140.0	3677.4	3136.5	2709.2	2404.1	2217.5	2134.3	2095.2	2065.0	2075.1
32.5°	4569.9	4298.9	3696.3	2981.4	2508.7	2211.2	2083.8	2022.1	1979.2	1950.3	1956.5
35°	4725.0	4433.8	3687.4	2791.1	2299.5	2052.4	1977.9	1927.6	1858.2	1795.2	1783.8
37.5°	4933.0	4602.7	3623.1	2583.1	2092.7	1945.2	1892.2	1799.0	1699.4	1614.9	1611.1
40°	5251.9	4800.6	3485.7	2338.5	1916.2	1865.8	1801.5	1680.5	1573.3	1505.2	1500.2
42.5°	5581.0	4983.3	3299.2	2081.4	1771.2	1782.6	1704.4	1584.6	1519.1	1474.9	1469.9
45°	5983.1	5181.3	3097.4	1858.2	1664.1	1704.4	1619.9	1550.6	1511.5	1482.5	1474.9
47.5°	6418.0	5384.3	2870.5	1657.8	1573.3	1632.5	1584.6	1553.2	1531.7	1511.5	1502.7
50°	6886.9	5611.2	2657.5	1496.4	1491.3	1558.2	1580.8	1569.6	1556.9	1550.6	1543.1
52.5°	7401.3	5843.2	2478.4	1382.9	1419.5	1505.2	1582.1	1590.9	1590.9	1587.1	1582.1
55°	7749.3	6004.5	2296.9	1290.9	1346.4	1462.3	1579.6	1613.6	1626.2	1621.2	1616.1
57.5°	8006.5	6092.8	2068.8	1211.5	1284.6	1420.8	1565.8	1616.1	1628.8	1635.1	1632.5
60°	8059.4	6010.8	1770.0	1128.3	1217.8	1360.2	1515.3	1578.3	1594.7	1633.8	1637.6
62.5°	7821.1	5758.7	1472.4	1046.4	1135.9	1268.2	1447.3	1535.5	1568.3	1628.8	1635.1
64°	7528.6	5476.3	1307.3	994.7	1082.9	1216.5	1413.2	1524.1	1567.0	1647.7	1652.7
65°	7314.3	5270.8	1203.9	961.9	1048.9	1182.5	1394.3	1527.9	1578.3	1676.7	1684.3
67.5°	6525.2	4563.6	995.9	885.0	968.2	1124.5	1398.1	1559.5	1575.9	1688.1	1686.8
70°	5399.4	3633.2	834.5	814.4	890.0	1077.8	1382.9	1509.0	1510.3	1584.6	1567.0
72.5°	4042.9	2685.2	723.6	741.3	803.1	966.9	1306.1	1441.0	1419.5	1429.6	1412.0
75°	2777.2	1776.3	622.8	663.1	712.2	854.7	1197.7	1308.6	1274.5	1261.9	1249.3
77.5°	1482.5	982.0	518.1	586.2	619.0	738.7	1045.1	1152.3	1116.9	1067.8	1051.4
80°	600.1	462.6	417.3	485.3	504.3	595.0	869.8	936.7	910.2	824.4	796.8
82.5°	301.3	277.4	327.7	382.0	383.2	424.9	646.7	709.7	650.5	545.9	521.9
85°	157.6	162.6	225.6	268.5	237.0	229.4	388.3	429.9	394.6	342.9	308.9
87.5°	56.8	65.5	118.5	117.2	83.2	44.2	85.7	41.6	22.7	13.9	17.7
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)