

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: P455720

Luminaire Tested: **GALN-SA6D-830-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37150 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

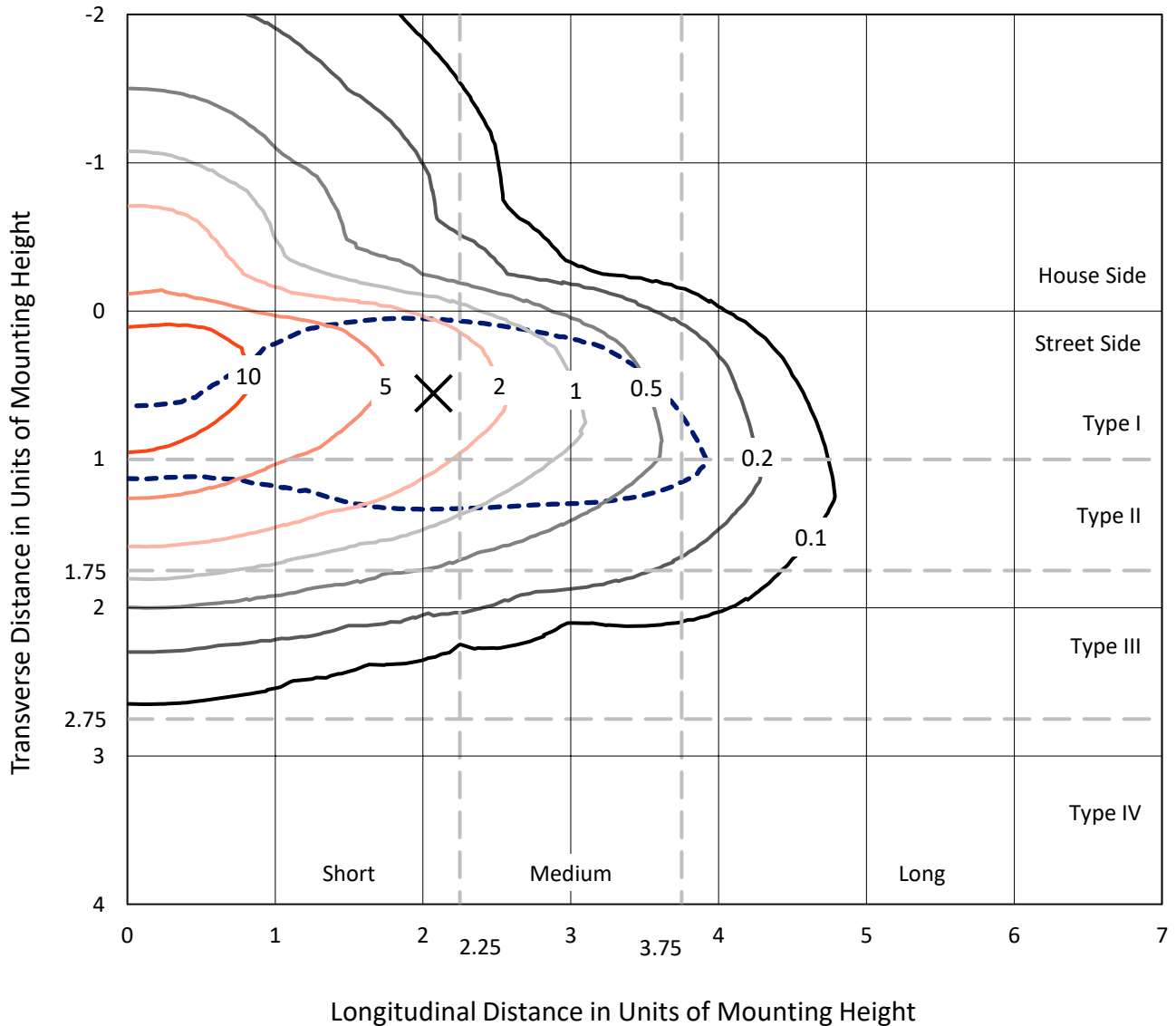
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

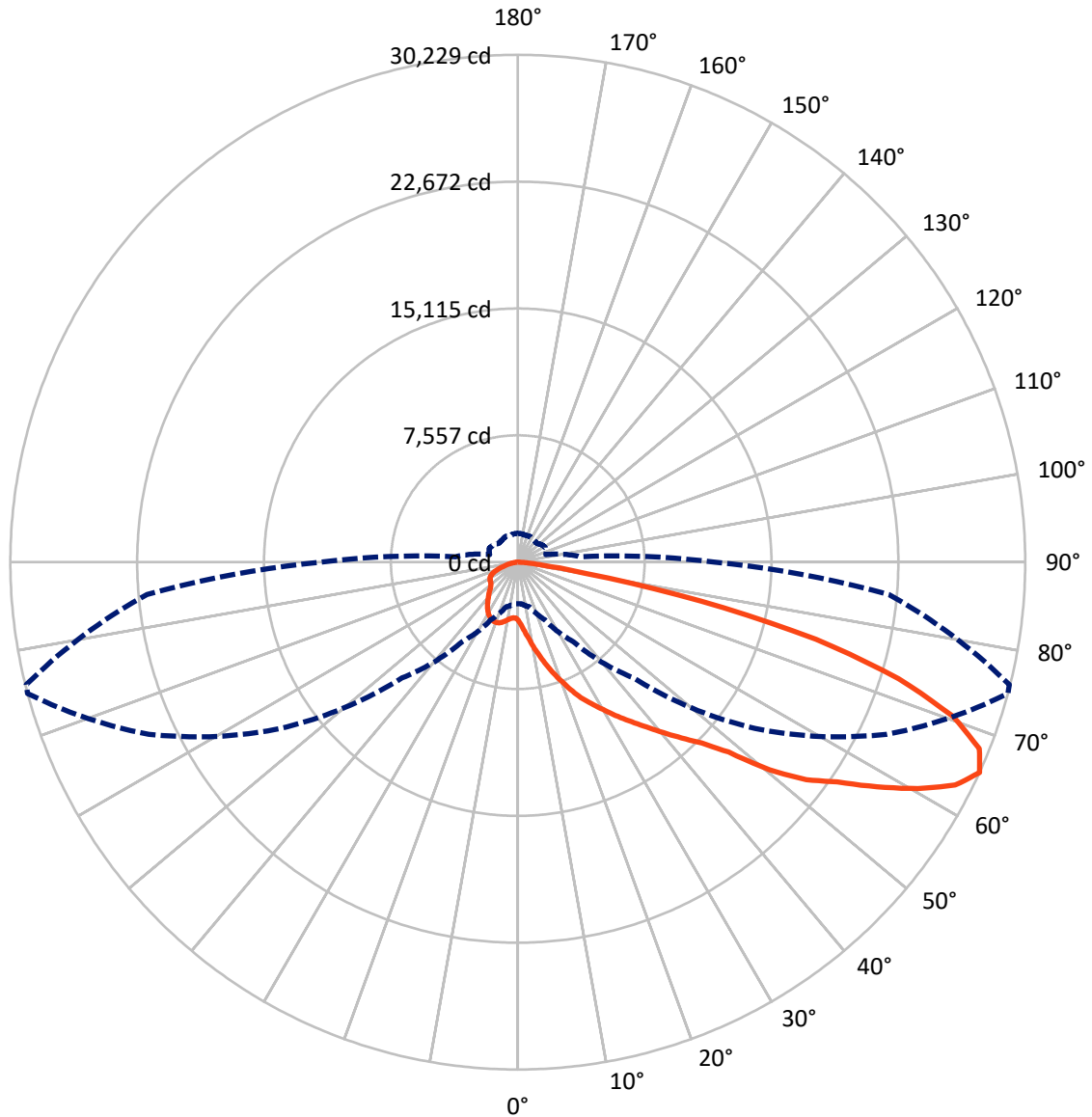
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6245.4	0.0	6245.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	30904.6	0.0	30904.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	37150.0	0.0	37150.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.4	1.1
10°-20°	1642.6	4.4
20°-30°	3173.0	8.5
30°-40°	5153.9	13.9
40°-50°	7089.6	19.1
50°-60°	8370.5	22.5
60°-70°	7333.9	19.7
70°-80°	3501.3	9.4
80°-90°	465.9	1.3
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°	37150.0	100.0
0°-180°	37150.0	100.0

**Coefficient of Utilization**



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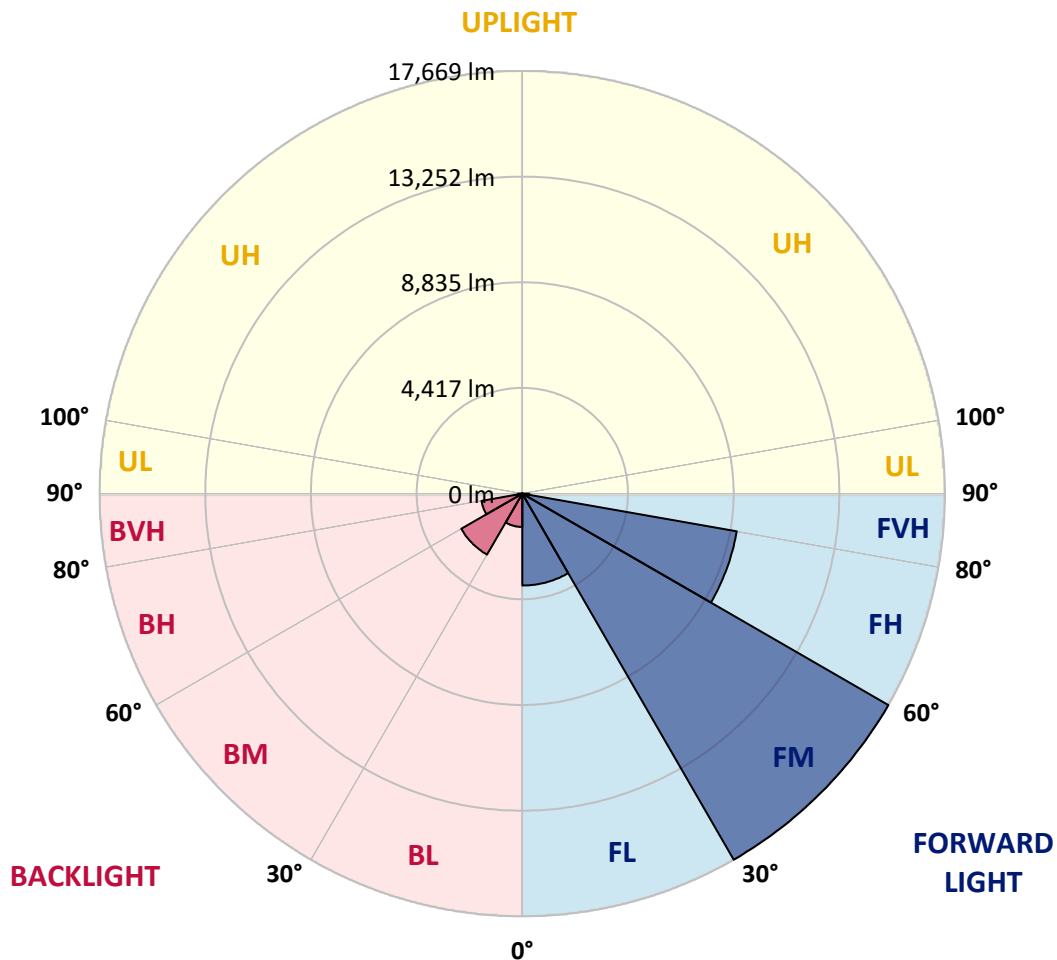
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3840.7	10.3			
FM	(30°-60°)	17669.3	47.6			
FH	(60°-80°)	9103.4	24.5			G4/12000
FVH	(80°-90°)	291.1	0.8			G3/500
BL	(0°-30°)	1394.3	3.8	B3/2500		
BM	(30°-60°)	2944.7	7.9	B3/5000		
BH	(60°-80°)	1731.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	174.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7
2.5°	4586.2	4555.9	4523.7	4435.0	4340.3	4233.5	4080.4	3933.3	3737.8	3731.8	3586.7
5°	5857.6	5837.5	5694.4	5611.8	5392.2	5100.0	4852.1	4467.3	4110.6	4068.3	3786.2
7.5°	7026.3	6947.7	6893.3	6744.2	6526.6	6151.8	5672.2	5152.4	4555.9	4499.5	4032.0
10°	7906.9	7898.8	7870.6	7741.7	7578.4	7205.7	6673.7	5928.1	5120.1	5009.3	4330.2
12.5°	8565.8	8571.8	8567.8	8565.8	8448.9	8132.6	7556.3	6770.4	5690.4	5611.8	4674.8
15°	8999.0	9059.5	9083.6	9184.4	9194.5	8982.9	8487.2	7584.5	6333.2	6216.3	5045.6
17.5°	9285.1	9315.4	9428.2	9599.5	9738.5	9700.2	9258.9	8338.1	6990.1	6794.6	5430.4
20°	9559.2	9611.6	9698.2	9932.0	10177.8	10290.6	9980.3	9109.8	7640.9	7516.0	5855.6
22.5°	10129.4	10204.0	10234.2	10353.1	10562.7	10762.1	10621.1	9849.3	8354.2	8185.0	6307.0
25°	11094.6	11173.2	11088.6	11060.4	11128.9	11227.6	11197.4	10546.5	9027.2	8785.4	6734.1
27.5°	12352.0	12362.1	12196.8	12039.7	11870.4	11820.0	11727.3	11165.1	9611.6	9410.1	7163.3
30°	13702.0	13653.7	13379.6	13095.5	12809.4	12527.3	12261.3	11761.6	10262.4	10030.7	7584.5
32.5°	14955.4	14929.2	14624.9	14183.6	13700.0	13434.0	12896.0	12364.1	10959.6	10735.9	8017.7
35°	15894.4	15932.6	15598.2	15116.6	14588.6	14352.9	13673.8	12996.8	11681.0	11437.2	8489.2
37.5°	16561.3	16541.2	16245.0	15827.9	15364.4	15158.9	14582.6	13687.9	12456.8	12223.0	9005.1
40°	16799.1	16787.0	16567.4	16263.1	15968.9	15896.4	15533.7	14433.5	13345.4	13071.3	9625.7
42.5°	16648.0	16674.2	16529.1	16446.5	16392.1	16444.5	16478.7	15410.8	14314.6	14062.7	10298.7
45°	16184.5	16170.4	16150.3	16285.3	16591.6	16936.1	17413.7	16333.6	15368.4	15166.9	11201.4
47.5°	15356.4	15457.1	15507.5	15880.3	16549.2	17365.3	18489.7	17570.8	16897.8	16722.5	12577.7
50°	14197.7	14278.3	14576.5	15239.5	16236.9	17526.5	19541.5	19593.9	19448.8	19120.4	14072.8
52.5°	12388.3	12513.2	13127.8	14342.8	15596.1	17460.0	20178.3	21328.8	21520.3	21274.4	15545.8
55°	10363.2	10538.5	11187.3	12781.2	14713.6	17097.3	20617.5	22334.3	23098.0	22870.3	16964.3
57.5°	8380.4	8565.8	9232.8	10776.2	13174.1	16295.3	20905.7	23454.7	25246.0	24949.8	18729.5
60°	6280.8	6474.2	7046.5	8636.3	10981.8	14727.7	20710.2	24425.9	27392.0	27265.0	20496.6
62.5°	4052.2	4265.8	4763.5	6079.3	8440.9	12585.7	19664.4	24961.9	29249.8	29096.7	21786.2
65°	2468.4	2492.6	2766.6	3774.1	5777.0	9744.6	17272.6	24250.6	30229.1	30182.8	22179.2
67.5°	1595.9	1634.2	1759.1	2260.8	3463.8	6768.4	13810.8	21903.1	29656.8	29640.7	21367.1
70°	1348.0	1360.1	1416.5	1525.4	2013.0	4104.6	9698.2	18161.2	27482.7	27482.7	19414.6
72.5°	1205.0	1221.1	1241.2	1275.5	1436.7	2325.3	5787.1	14137.3	23728.7	23885.9	16525.1
75°	1094.1	1090.1	1102.2	1108.3	1225.1	1519.3	2992.3	10455.9	18356.7	18042.4	11967.1
77.5°	937.0	943.0	937.0	963.2	1082.1	1156.6	1519.3	7016.2	11124.8	10717.8	6006.7
80°	769.7	779.8	789.9	806.0	924.9	878.5	912.8	3197.8	4114.6	4028.0	1855.8
82.5°	578.3	592.4	608.5	646.8	727.4	580.3	576.3	1366.2	1485.1	1360.1	683.1
85°	233.7	276.1	417.1	455.4	457.4	318.4	354.6	570.2	606.5	592.4	268.0
87.5°	54.4	64.5	135.0	203.5	187.4	118.9	131.0	185.4	211.6	195.5	90.7
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°	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7	3451.7
2.5°	3520.2	3449.7	3328.8	3236.1	3169.6	3111.2	3074.9	3052.7	3044.7	3042.7	3044.7
5°	3639.1	3514.2	3322.7	3201.8	3135.3	3097.1	3074.9	3072.9	3074.9	3076.9	3070.9
7.5°	3802.3	3623.0	3373.1	3260.3	3209.9	3181.7	3171.6	3167.6	3169.6	3167.6	3167.6
10°	4019.9	3774.1	3471.9	3355.0	3312.7	3280.4	3264.3	3254.2	3246.2	3238.1	3234.1
12.5°	4259.7	3941.4	3578.6	3465.8	3405.4	3355.0	3318.7	3292.5	3274.4	3256.2	3252.2
15°	4527.7	4118.7	3697.5	3540.4	3453.7	3379.2	3316.7	3274.4	3242.1	3215.9	3213.9
17.5°	4783.6	4285.9	3778.1	3574.6	3447.7	3342.9	3260.3	3201.8	3161.5	3127.3	3123.3
20°	5057.7	4445.1	3814.4	3552.5	3387.2	3260.3	3151.5	3080.9	3034.6	2996.3	2990.3
22.5°	5333.7	4580.1	3810.4	3481.9	3282.4	3133.3	3018.5	2943.9	2889.5	2851.2	2837.1
25°	5597.7	4688.9	3760.0	3369.1	3137.4	2982.2	2865.3	2796.8	2748.5	2702.1	2702.1
27.5°	5835.5	4753.4	3665.3	3232.1	2988.3	2825.0	2732.3	2669.9	2625.6	2595.3	2577.2
30°	6069.2	4783.6	3536.3	3058.8	2831.1	2692.0	2617.5	2581.2	2540.9	2506.7	2502.6
32.5°	6278.8	4777.6	3375.1	2889.5	2682.0	2583.2	2553.0	2524.8	2482.5	2434.1	2422.0
35°	6482.3	4737.3	3183.7	2704.1	2557.0	2518.8	2526.8	2486.5	2409.9	2349.5	2339.4
37.5°	6703.9	4664.7	2974.1	2553.0	2452.3	2488.5	2508.7	2420.0	2295.1	2200.4	2178.2
40°	6959.8	4582.1	2756.5	2401.9	2369.6	2460.3	2460.3	2297.1	2125.8	2067.4	2051.3
42.5°	7260.1	4513.6	2575.2	2274.9	2301.1	2391.8	2381.7	2133.9	2063.4	2033.1	2025.1
45°	7735.6	4489.4	2387.8	2164.1	2244.7	2311.2	2228.6	2077.5	2037.2	2013.0	2004.9
47.5°	8487.2	4517.6	2222.6	2081.5	2180.2	2230.6	2057.3	2039.2	2011.0	1976.7	1972.7
50°	9184.4	4491.4	2105.7	2035.2	2123.8	2133.9	1986.8	1992.8	1976.7	1938.4	1930.4
52.5°	9754.6	4408.8	2031.1	2011.0	2075.5	1964.6	1920.3	1942.5	1936.4	1888.1	1880.0
55°	10381.3	4358.5	1994.9	2011.0	2043.2	1817.5	1857.8	1890.1	1882.0	1847.8	1845.7
57.5°	11141.0	4368.5	1968.7	2017.0	2011.0	1743.0	1795.4	1833.7	1831.6	1821.6	1821.6
60°	11918.8	4372.6	1928.4	2015.0	1972.7	1684.5	1730.9	1785.3	1789.3	1795.4	1795.4
62.5°	12176.7	4197.3	1849.8	1978.7	1888.1	1628.1	1670.4	1745.0	1741.0	1757.1	1759.1
65°	11695.1	3711.6	1732.9	1896.1	1779.2	1587.8	1624.1	1692.6	1670.4	1712.8	1720.8
67.5°	10645.3	3070.9	1551.6	1747.0	1658.3	1545.5	1593.9	1620.1	1579.8	1662.4	1664.4
70°	9200.5	2397.9	1321.8	1535.4	1521.3	1501.2	1569.7	1529.4	1473.0	1573.7	1553.6
72.5°	7693.3	1831.6	1055.9	1255.3	1338.0	1434.7	1527.4	1412.5	1333.9	1364.2	1327.9
75°	5779.0	1354.1	848.3	983.3	1114.3	1340.0	1489.1	1271.5	1150.6	1122.4	1114.3
77.5°	2945.9	884.6	634.7	735.5	836.2	1211.0	1436.7	1106.2	953.1	908.8	888.6
80°	1051.8	550.1	447.3	507.8	564.2	1041.8	1255.3	914.8	739.5	731.4	739.5
82.5°	487.6	354.6	300.2	332.5	334.5	695.2	957.1	683.1	562.2	854.4	721.4
85°	209.6	177.3	169.3	165.2	153.1	310.3	538.0	366.7	572.3	255.9	235.8
87.5°	62.5	70.5	62.5	46.3	34.3	34.3	54.4	20.2	14.1	10.1	10.1
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)