

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: P651443

Luminaire Tested: **GALN-SA6D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34812.4 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

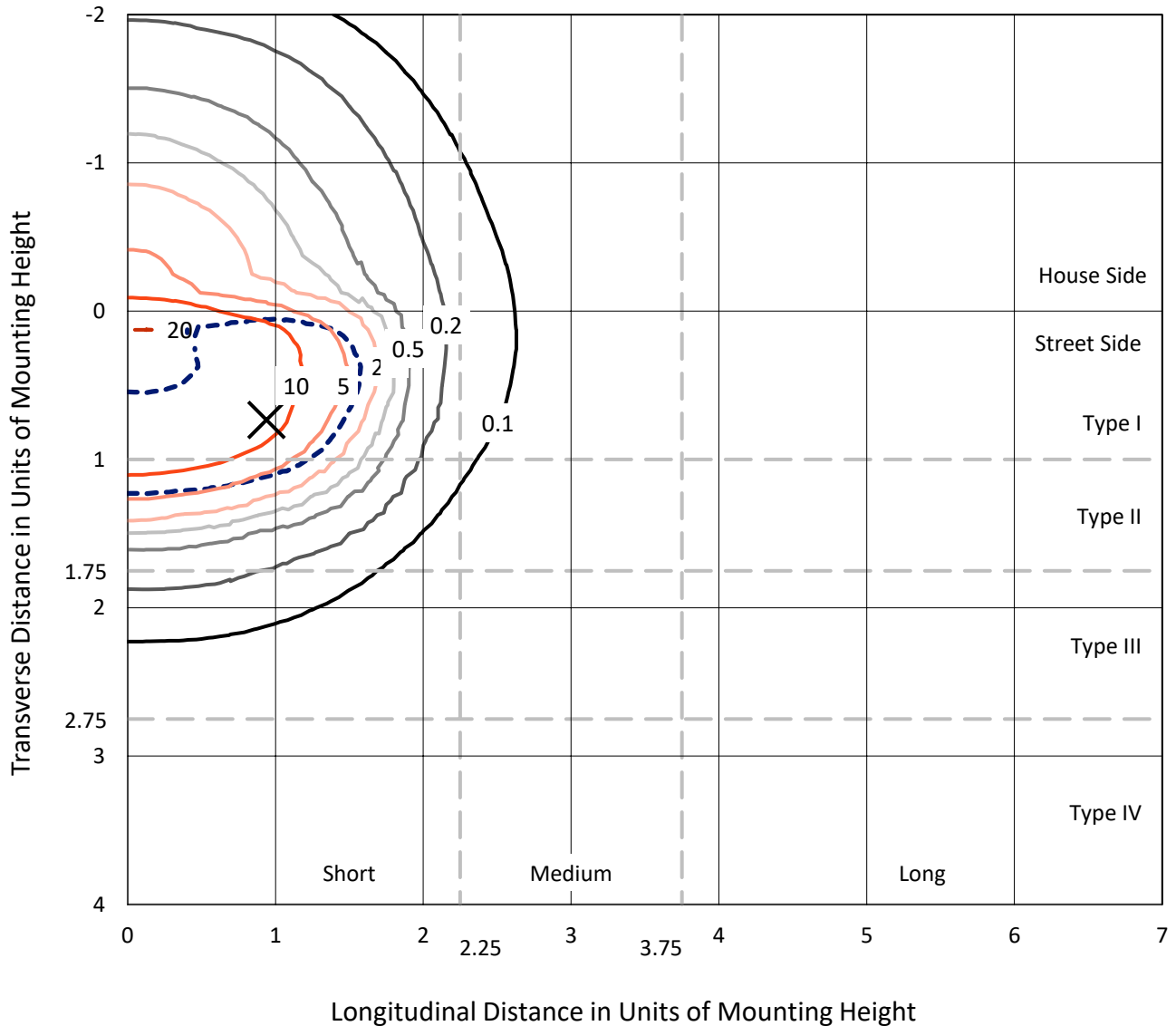
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

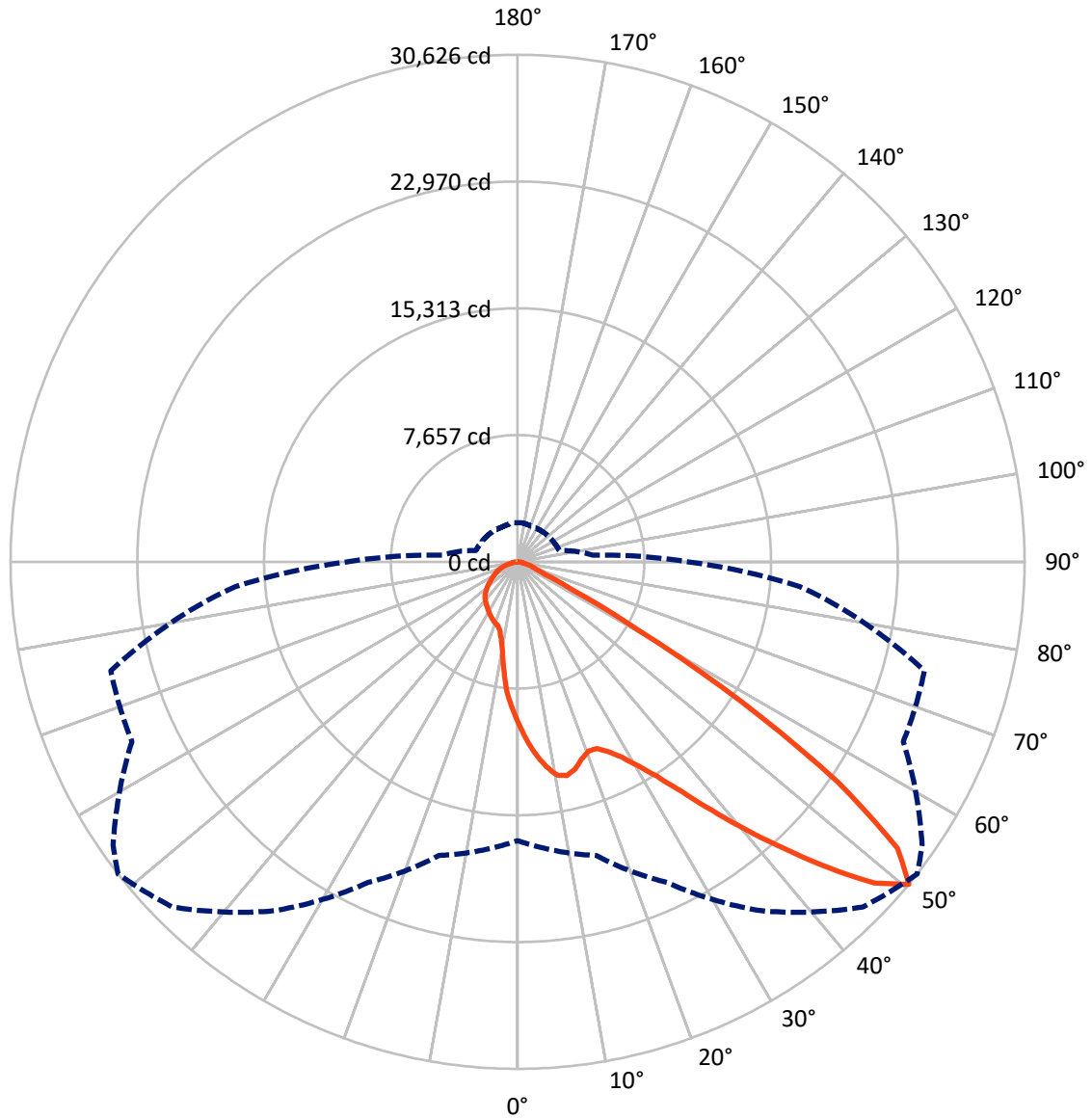
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6543.9	0.0	6543.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28268.5	0.0	28268.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	34812.4	0.0	34812.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	904.5	2.6
10°-20°	2424.2	7.0
20°-30°	4083.4	11.7
30°-40°	6852.4	19.7
40°-50°	10482.4	30.1
50°-60°	7642.5	22.0
60°-70°	1700.8	4.9
70°-80°	613.5	1.8
80°-90°	108.6	0.3
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°	34812.4	100.0
0°-180°	34812.4	100.0

**Coefficient of Utilization**



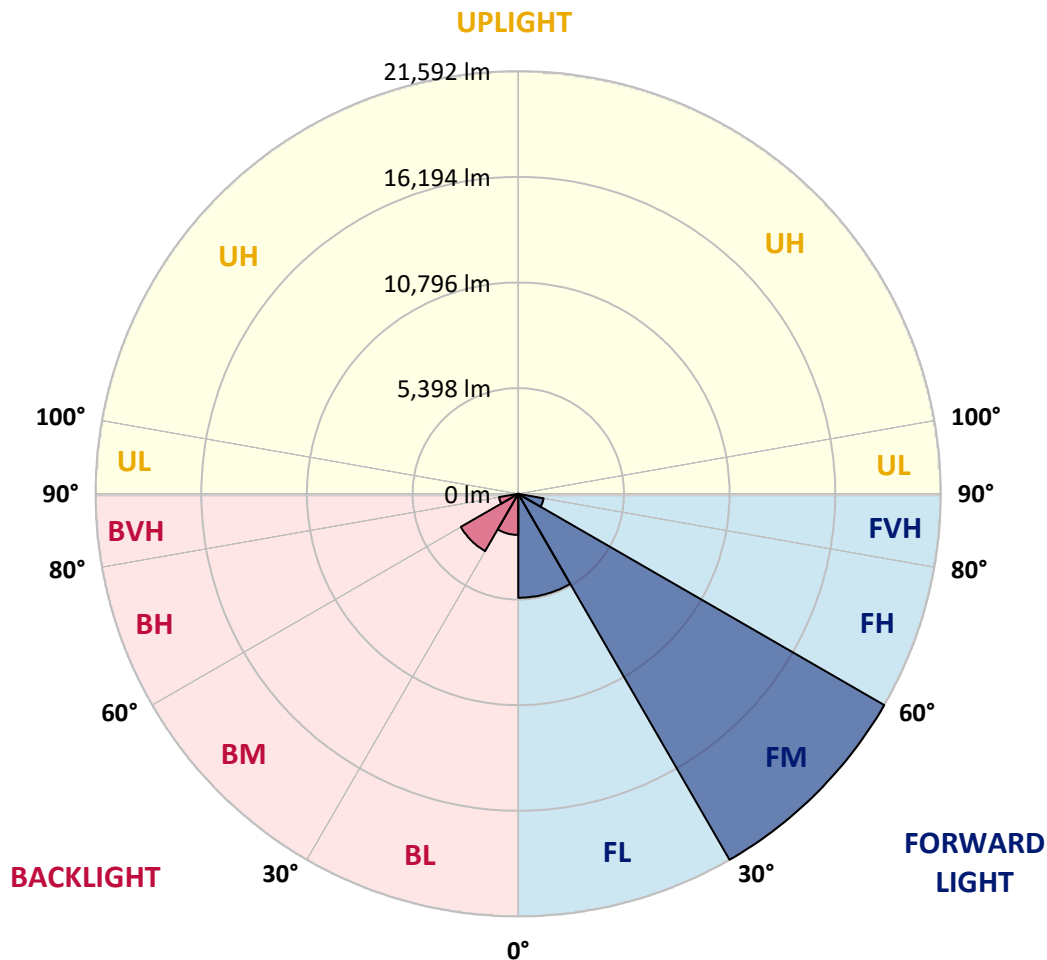
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5310.1	15.3			
FM (30°-60°)	21592.4	62.0			
FH (60°-80°)	1317.3	3.8			G1/1800
FVH (80°-90°)	48.7	0.1			G1/100
BL (0°-30°)	2102.0	6.0	B3/2500		
BM (30°-60°)	3385.0	9.7	B3/5000		
BH (60°-80°)	997.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.9	0.2			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°	52°	55°	65°	75°	85°
0°	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0
2.5°	11554.1	11331.7	11356.9	11197.5	11025.5	10975.1	10798.9	10631.2	10505.3	10236.7	9989.2
5°	12628.1	12561.0	12460.3	12334.4	12204.4	11885.5	11705.1	11495.4	11033.9	10618.6	10207.4
7.5°	12783.4	12770.8	12825.3	12825.3	12871.5	12749.8	12493.9	12347.1	11856.2	11180.8	10417.1
10°	11692.6	11730.4	11994.6	12338.6	12816.9	13148.4	13106.4	13068.6	12531.7	11608.7	10664.7
12.5°	10824.1	10740.2	10895.4	11189.1	11906.5	12707.8	13249.0	13253.2	13114.8	12292.5	10845.1
15°	10333.3	10392.0	10434.0	10572.4	11113.6	12040.8	12993.1	13274.3	13882.6	12775.0	11130.4
17.5°	10647.9	10450.7	10442.4	10475.9	10752.8	11449.2	12519.0	13001.5	14302.1	13395.9	11482.8
20°	11059.1	11054.9	10937.4	10895.4	10891.2	11512.2	12208.6	12863.1	14524.5	14201.4	11839.4
22.5°	11780.6	11780.6	11587.7	11495.4	11298.2	11805.9	12250.5	12695.2	14893.6	14755.2	12011.4
25°	12988.9	12791.8	12460.3	12233.8	12120.5	12300.9	12695.2	13093.8	15216.7	15342.5	12368.0
27.5°	14104.9	13794.4	13630.8	13240.7	13089.7	12984.7	13345.6	13748.3	15594.2	16257.1	12561.0
30°	15371.9	15317.4	15023.7	14520.3	14146.9	13953.9	14285.3	14683.9	16286.6	17192.7	13005.7
32.5°	17637.5	17142.4	16743.8	16127.1	15518.7	15107.6	15434.9	15699.2	17436.0	18170.2	13492.4
35°	20083.3	19924.0	19235.9	18124.1	17192.7	16823.5	17016.5	17213.7	18774.4	19663.8	14310.5
37.5°	22487.3	22269.2	21702.8	20767.2	19634.4	18883.5	19021.9	19252.7	20276.3	21677.6	15309.0
40°	24215.8	23947.3	23662.0	23523.6	22399.2	21371.3	21291.6	21350.4	22306.9	23565.5	16416.6
42.5°	24341.7	24673.1	24761.2	25319.2	25054.9	24211.6	23720.7	23733.4	24245.2	25432.5	17536.8
45°	24077.3	23771.1	24421.4	25944.3	26817.0	27211.3	26384.9	26279.9	25445.0	26514.9	18094.7
47.5°	21304.2	21388.1	22487.3	24895.5	27416.9	29179.0	28986.0	28637.7	26087.0	26477.1	18006.7
50°	16840.3	17348.0	18367.4	21367.1	25738.7	29489.4	30626.4	29820.9	25705.2	25436.6	17108.8
52.5°	11214.3	11424.1	12095.3	15967.6	20695.9	26359.6	28738.5	28923.1	25352.8	24073.2	15971.9
55°	4992.5	4975.8	5919.7	8340.4	12984.7	20058.2	23481.6	24606.0	23997.7	22684.5	14864.3
57.5°	2114.4	2185.8	2571.8	3603.9	6385.4	12103.7	15908.9	16894.8	18455.6	18627.6	11403.1
60°	1430.6	1439.0	1543.9	1804.0	2672.4	5684.7	8344.7	9527.8	10643.7	10568.2	6049.7
62.5°	1124.3	1153.8	1233.4	1338.4	1585.9	2580.2	3733.9	4392.5	4463.9	3754.9	2294.9
65°	960.8	965.0	1044.7	1132.7	1241.8	1501.9	1799.8	1833.4	1854.4	1787.2	1686.5
67.5°	792.9	801.3	864.2	965.0	1065.6	1149.6	1233.4	1275.4	1371.9	1560.7	1535.5
70°	629.3	641.9	696.4	780.4	872.6	923.0	1027.9	1065.6	1153.8	1300.6	1359.3
72.5°	478.3	482.5	528.7	587.4	671.3	721.6	809.7	851.7	910.4	1036.3	1090.8
75°	344.1	356.6	390.1	419.6	432.1	465.7	549.6	595.8	679.6	734.2	738.4
77.5°	180.4	188.8	197.2	197.2	239.1	302.1	356.6	381.8	440.5	482.5	461.5
80°	71.3	75.5	96.5	130.0	167.8	218.2	255.9	268.5	318.8	344.1	356.6
82.5°	42.0	46.2	62.9	92.3	121.7	155.2	184.6	197.2	230.8	260.1	268.5
85°	20.9	25.1	37.8	58.7	79.7	96.5	92.3	88.1	88.1	83.9	88.1
87.5°	8.4	8.4	12.6	12.6	12.6	16.8	20.9	20.9	20.9	25.1	25.1
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°	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0	9813.0
2.5°	9825.6	9657.8	9502.5	9217.3	8906.8	8818.7	8457.9	8327.8	8235.6	8126.5	8092.9
5°	9875.9	9653.6	9154.4	8579.5	8122.3	7534.9	7148.9	6733.6	6431.5	6356.0	6335.1
7.5°	9980.8	9599.1	8739.0	7870.6	6935.0	6137.9	5529.5	5202.3	4912.8	4896.0	4866.6
10°	10098.3	9435.4	8285.9	6922.4	5726.7	4988.3	4623.3	4480.7	4409.4	4392.5	4384.2
12.5°	10194.8	9401.9	7778.2	5999.4	4870.8	4426.1	4317.0	4304.5	4333.8	4342.3	4359.0
15°	10236.7	9267.7	7165.7	5172.9	4338.0	4174.4	4220.6	4270.9	4291.9	4346.5	4304.5
17.5°	10316.5	9095.6	6410.5	4518.4	4040.2	4069.5	4149.2	4207.9	4241.6	4279.3	4224.8
20°	10358.4	8940.4	5701.6	4128.3	3935.3	3989.8	4098.9	4145.0	4187.0	4203.8	4140.8
22.5°	10320.7	8621.5	5076.4	3813.6	3834.6	3905.9	4002.4	4052.8	4027.5	3960.4	3922.7
25°	10220.0	8172.6	4426.1	3612.3	3691.9	3817.8	3893.3	3855.6	3809.4	3771.6	3759.1
27.5°	10215.8	7623.0	3956.2	3427.7	3570.3	3742.3	3717.1	3683.6	3704.5	3675.2	3641.6
30°	10236.7	7090.2	3570.3	3322.8	3482.2	3566.1	3595.4	3561.9	3587.0	3532.5	3549.3
32.5°	10127.7	6570.0	3318.6	3201.1	3377.3	3373.1	3469.6	3494.8	3436.0	3322.8	3339.5
35°	10173.8	6150.5	3104.6	3146.5	3259.8	3259.8	3335.3	3306.0	3150.7	3083.6	3100.4
37.5°	10492.7	5739.3	2999.7	3071.0	3146.5	3180.1	3154.9	3029.1	2991.4	2991.4	2999.7
40°	10794.7	5386.9	2936.8	3054.3	3041.6	3062.7	2878.1	2890.6	2890.6	2894.8	2873.9
42.5°	11063.3	5147.8	2886.4	2953.6	2974.5	2865.5	2752.2	2739.6	2769.0	2764.8	2748.0
45°	11159.7	4950.5	2815.1	2840.3	2857.0	2676.7	2622.2	2596.9	2630.5	2643.1	2659.9
47.5°	10790.5	4787.0	2735.4	2685.1	2651.5	2534.0	2462.7	2416.5	2458.5	2529.8	2546.6
50°	10316.5	4572.9	2609.5	2513.1	2441.8	2391.4	2341.0	2294.9	2324.3	2374.6	2362.0
52.5°	9615.8	4237.4	2450.1	2349.4	2227.7	2240.3	2194.2	2169.0	2185.8	2185.8	2173.2
55°	8617.3	3482.2	2181.6	2110.3	2009.6	2043.1	2051.5	2018.0	1984.4	2013.8	1988.6
57.5°	5882.0	2458.5	1946.7	1946.7	1846.0	1892.1	1888.0	1808.2	1728.5	1736.9	1720.1
60°	3402.4	1959.3	1795.6	1778.9	1673.9	1711.7	1720.1	1665.6	1543.9	1552.3	1535.5
62.5°	1934.0	1673.9	1569.1	1543.9	1523.0	1556.5	1556.5	1485.2	1380.2	1388.7	1371.9
65°	1644.6	1552.3	1401.3	1397.1	1388.7	1397.1	1363.5	1288.0	1195.6	1157.9	1162.1
67.5°	1493.5	1434.8	1288.0	1250.2	1225.1	1220.9	1157.9	1086.6	1044.7	1011.1	1006.9
70°	1308.9	1262.8	1153.8	1103.4	1078.2	1019.5	956.6	910.4	851.7	834.9	851.7
72.5°	1036.3	1032.1	990.1	935.6	881.0	834.9	780.4	717.4	662.9	650.3	620.9
75°	717.4	725.8	734.2	725.8	679.6	620.9	558.0	507.6	440.5	402.8	394.3
77.5°	469.9	482.5	495.1	478.3	448.9	394.3	352.4	289.5	239.1	209.7	205.5
80°	344.1	360.8	369.2	356.6	323.0	281.1	235.0	184.6	146.8	121.7	121.7
82.5°	264.3	281.1	289.5	268.5	235.0	201.4	167.8	130.0	100.7	79.7	75.5
85°	92.3	88.1	104.9	109.1	130.0	121.7	100.7	75.5	58.7	42.0	37.8
87.5°	25.1	25.1	29.4	29.4	25.1	20.9	20.9	20.9	16.8	12.6	12.6
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)