

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: P648638

Luminaire Tested: **GALN-SA9B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648638  
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-SA9B-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA 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: 36447.1 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

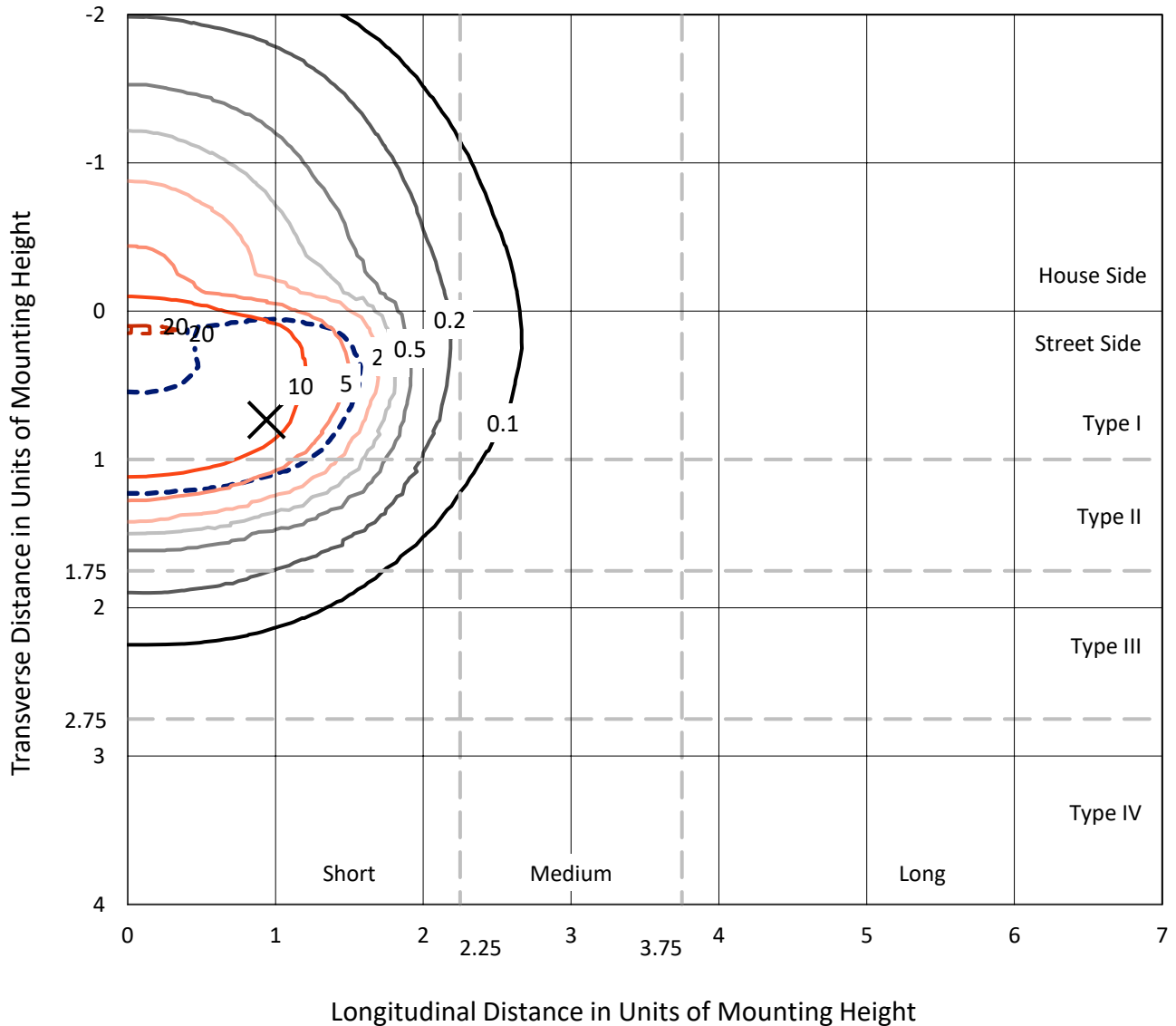
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

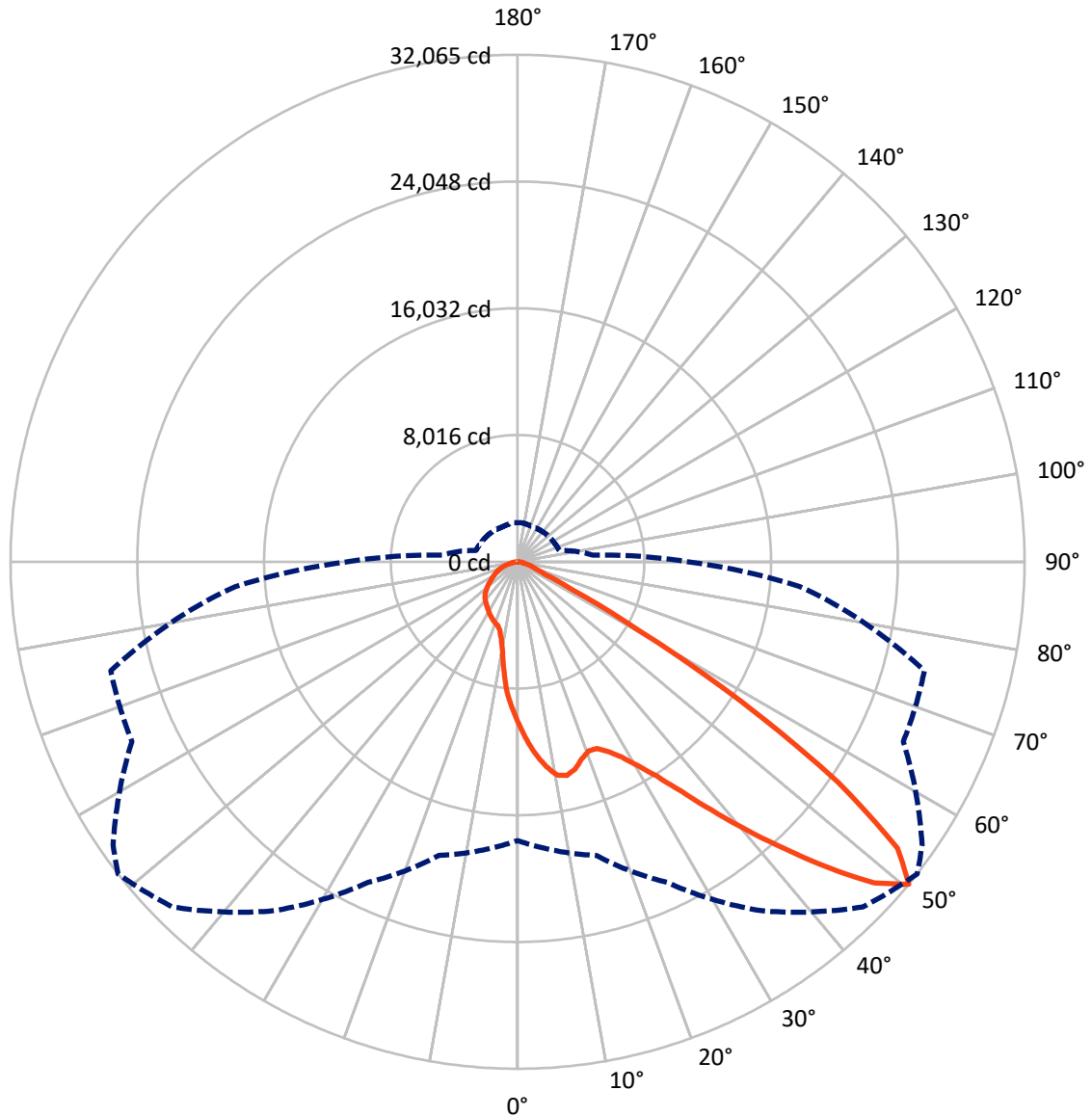
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	6851.2	0.0	6851.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	29595.9	0.0	29595.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	36447.1	0.0	36447.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	946.9	2.6
10°-20°	2538.0	7.0
20°-30°	4275.2	11.7
30°-40°	7174.1	19.7
40°-50°	10974.7	30.1
50°-60°	8001.4	22.0
60°-70°	1780.7	4.9
70°-80°	642.3	1.8
80°-90°	113.7	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°	36447.1	100.0
0°-180°	36447.1	100.0

**Coefficient of Utilization**

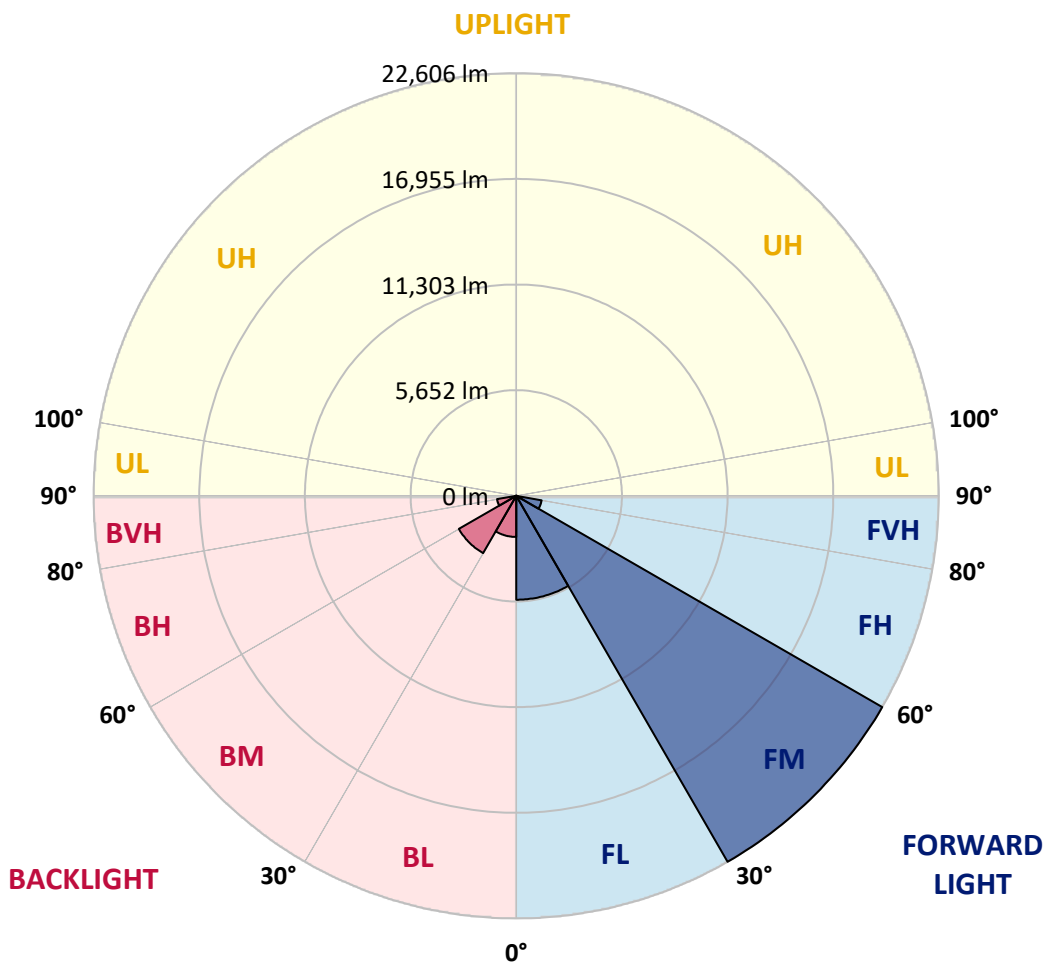


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5559.4	15.3			
FM (30°-60°)	22606.3	62.0			
FH (60°-80°)	1379.2	3.8			G1/1800
FVH (80°-90°)	50.9	0.1			G1/100
BL (0°-30°)	2200.7	6.0	B3/2500		
BM (30°-60°)	3543.9	9.7	B3/5000		
BH (60°-80°)	1043.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	62.7	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8
2.5°	12096.6	11863.9	11890.2	11723.3	11543.2	11490.5	11306.1	11130.3	10998.6	10717.5	10458.3
5°	13221.1	13150.9	13045.4	12913.6	12777.5	12443.7	12254.8	12035.2	11552.0	11117.2	10686.7
7.5°	13383.7	13370.5	13427.6	13427.6	13475.9	13348.5	13080.6	12926.9	12412.9	11705.8	10906.3
10°	12241.7	12281.1	12557.9	12918.1	13418.8	13765.8	13721.8	13682.3	13120.1	12153.8	11165.5
12.5°	11332.4	11244.6	11407.1	11714.5	12465.7	13304.6	13871.2	13875.6	13730.7	12869.7	11354.4
15°	10818.5	10879.9	10923.9	11068.9	11635.5	12606.2	13603.3	13897.5	14534.4	13374.9	11653.1
17.5°	11147.9	10941.5	10932.7	10967.8	11257.7	11986.9	13107.0	13612.1	14973.7	14024.9	12022.0
20°	11578.4	11574.0	11451.0	11407.1	11402.7	12052.7	12781.9	13467.1	15206.5	14868.3	12395.4
22.5°	12333.9	12333.9	12131.8	12035.2	11828.7	12360.2	12825.9	13291.4	15593.1	15448.0	12575.4
25°	13598.9	13392.4	13045.4	12808.2	12689.6	12878.5	13291.4	13708.7	15931.2	16063.0	12948.8
27.5°	14767.2	14442.2	14270.9	13862.4	13704.3	13594.4	13972.2	14393.9	16326.6	17020.5	13150.9
30°	16093.8	16036.6	15729.2	15202.1	14811.1	14609.1	14956.2	15373.4	17051.3	18000.1	13616.4
32.5°	18465.6	17947.4	17530.0	16884.4	16247.5	15817.1	16159.6	16436.3	18254.9	19023.5	14125.9
35°	21026.4	20859.5	20139.2	18975.1	18000.1	17613.5	17815.6	18022.0	19656.0	20587.2	14982.5
37.5°	23543.2	23314.8	22721.9	21742.4	20556.4	19770.2	19915.1	20156.8	21228.5	22695.6	16027.9
40°	25352.9	25071.8	24773.2	24628.2	23451.0	22374.9	22291.5	22352.9	23354.4	24672.1	17187.5
42.5°	25484.7	25831.7	25924.0	26508.2	26231.4	25348.5	24834.6	24847.8	25383.7	26626.8	18360.3
45°	25208.0	24887.3	25568.2	27162.6	28076.3	28489.1	27623.8	27514.0	26639.9	27760.0	18944.5
47.5°	22304.6	22392.5	23543.2	26064.5	28704.3	30549.1	30347.1	29982.6	27312.0	27720.5	18852.2
50°	17631.1	18162.5	19229.9	22370.5	26947.4	30874.2	32064.6	31221.2	26912.3	26631.2	17912.2
52.5°	11740.9	11960.5	12663.3	16717.5	21667.7	27597.5	30087.9	30281.2	26543.3	25203.6	16721.9
55°	5227.0	5209.4	6197.7	8732.1	13594.4	21000.1	24584.2	25761.4	25124.5	23749.7	15562.3
57.5°	2213.8	2288.5	2692.6	3773.0	6685.3	12672.1	16656.0	17688.2	19322.2	19502.3	11938.6
60°	1497.8	1506.6	1616.4	1888.8	2798.0	5951.7	8736.5	9975.1	11143.5	11064.5	6333.8
62.5°	1177.2	1207.9	1291.4	1401.2	1660.4	2701.4	3909.2	4598.9	4673.5	3931.2	2402.6
65°	1005.8	1010.2	1093.7	1185.9	1300.2	1572.5	1884.4	1919.4	1941.4	1871.1	1765.7
67.5°	830.1	839.0	904.8	1010.2	1115.7	1203.5	1291.4	1335.3	1436.3	1634.0	1607.7
70°	658.9	672.0	729.1	817.0	913.6	966.3	1076.2	1115.7	1207.9	1361.6	1423.1
72.5°	500.7	505.1	553.4	615.0	702.8	755.5	847.8	891.7	953.1	1084.9	1142.0
75°	360.2	373.3	408.5	439.3	452.4	487.6	575.4	623.7	711.6	768.7	773.1
77.5°	188.9	197.6	206.5	206.5	250.4	316.3	373.3	399.7	461.2	505.1	483.2
80°	74.7	79.1	101.0	136.2	175.7	228.4	267.9	281.1	333.8	360.2	373.3
82.5°	43.9	48.3	65.9	96.6	127.4	162.6	193.2	206.5	241.6	272.3	281.1
85°	21.9	26.4	39.5	61.5	83.5	101.0	96.6	92.2	92.2	87.9	92.2
87.5°	8.8	8.8	13.2	13.2	13.2	17.5	21.9	21.9	21.9	26.4	26.4
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°	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8	10273.8
2.5°	10287.0	10111.3	9948.8	9650.1	9325.1	9232.8	8855.1	8718.9	8622.3	8508.1	8472.9
5°	10339.7	10106.9	9584.2	8982.5	8503.7	7888.7	7484.6	7049.8	6733.6	6654.5	6632.6
7.5°	10449.5	10049.8	9149.4	8240.1	7260.6	6426.1	5789.2	5446.5	5143.5	5125.9	5095.2
10°	10572.5	9878.5	8675.0	7247.4	5995.7	5222.5	4840.4	4691.1	4616.4	4598.9	4590.0
12.5°	10673.5	9843.4	8143.5	6281.1	5099.6	4634.0	4519.8	4506.6	4537.3	4546.1	4563.7
15°	10717.5	9702.8	7502.2	5415.9	4541.7	4370.5	4418.8	4471.5	4493.4	4550.6	4506.6
17.5°	10800.9	9522.7	6711.6	4730.7	4229.8	4260.6	4344.1	4405.5	4440.7	4480.2	4423.2
20°	10844.9	9360.2	5969.3	4322.2	4120.1	4177.1	4291.4	4339.7	4383.6	4401.2	4335.3
22.5°	10805.3	9026.4	5314.8	3992.7	4014.7	4089.3	4190.4	4243.1	4216.7	4146.5	4106.9
25°	10699.9	8556.4	4634.0	3781.9	3865.3	3997.1	4076.1	4036.6	3988.3	3948.7	3935.6
27.5°	10695.5	7981.0	4142.1	3588.6	3738.0	3918.1	3891.7	3856.5	3878.5	3847.7	3812.6
30°	10717.5	7423.2	3738.0	3478.8	3645.7	3733.6	3764.3	3729.1	3755.5	3698.4	3716.0
32.5°	10603.2	6878.5	3474.4	3351.4	3535.9	3531.5	3632.5	3658.9	3597.4	3478.8	3496.3
35°	10651.5	6439.2	3250.4	3294.3	3412.9	3412.9	3491.9	3461.3	3298.7	3228.4	3246.0
37.5°	10985.4	6008.8	3140.5	3215.2	3294.3	3329.5	3303.1	3171.3	3131.8	3131.8	3140.5
40°	11301.7	5639.9	3074.7	3197.7	3184.5	3206.5	3013.2	3026.4	3026.4	3030.8	3008.8
42.5°	11582.8	5389.5	3022.0	3092.2	3114.2	3000.0	2881.4	2868.2	2899.0	2894.6	2877.1
45°	11683.8	5183.1	2947.3	2973.7	2991.2	2802.4	2745.3	2718.9	2754.0	2767.2	2784.8
47.5°	11297.3	5011.7	2863.8	2811.1	2776.0	2653.0	2578.3	2530.0	2574.0	2648.7	2666.2
50°	10800.9	4787.7	2732.0	2631.0	2556.4	2503.6	2450.9	2402.6	2433.4	2486.1	2472.9
52.5°	10067.4	4436.3	2565.2	2459.7	2332.4	2345.6	2297.2	2270.9	2288.5	2288.5	2275.2
55°	9022.0	3645.7	2284.0	2209.4	2104.0	2139.1	2147.8	2112.8	2077.6	2108.4	2082.0
57.5°	6158.1	2574.0	2038.1	2038.1	1932.7	1981.0	1976.6	1893.1	1809.7	1818.4	1800.9
60°	3562.3	2051.2	1880.0	1862.4	1752.6	1792.1	1800.9	1743.8	1616.4	1625.2	1607.7
62.5°	2024.9	1752.6	1642.7	1616.4	1594.4	1629.6	1629.6	1554.9	1445.1	1453.9	1436.3
65°	1721.8	1625.2	1467.0	1462.6	1453.9	1462.6	1427.6	1348.5	1251.9	1212.3	1216.7
67.5°	1563.7	1502.2	1348.5	1308.9	1282.6	1278.2	1212.3	1137.6	1093.7	1058.5	1054.2
70°	1370.4	1322.1	1207.9	1155.2	1128.9	1067.4	1001.5	953.1	891.7	874.1	891.7
72.5°	1084.9	1080.5	1036.6	979.5	922.4	874.1	817.0	751.1	694.0	680.8	650.0
75°	751.1	759.9	768.7	759.9	711.6	650.0	584.2	531.5	461.2	421.6	412.9
77.5°	492.0	505.1	518.3	500.7	470.0	412.9	368.9	303.1	250.4	219.6	215.2
80°	360.2	377.7	386.6	373.3	338.2	294.3	245.9	193.2	153.7	127.4	127.4
82.5°	276.7	294.3	303.1	281.1	245.9	210.9	175.7	136.2	105.4	83.5	79.1
85°	96.6	92.2	109.8	114.2	136.2	127.4	105.4	79.1	61.5	43.9	39.5
87.5°	26.4	26.4	30.8	30.8	26.4	21.9	21.9	21.9	17.5	13.2	13.2
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)