

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: P459184

Luminaire Tested: **GALN-SA6D-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43152 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

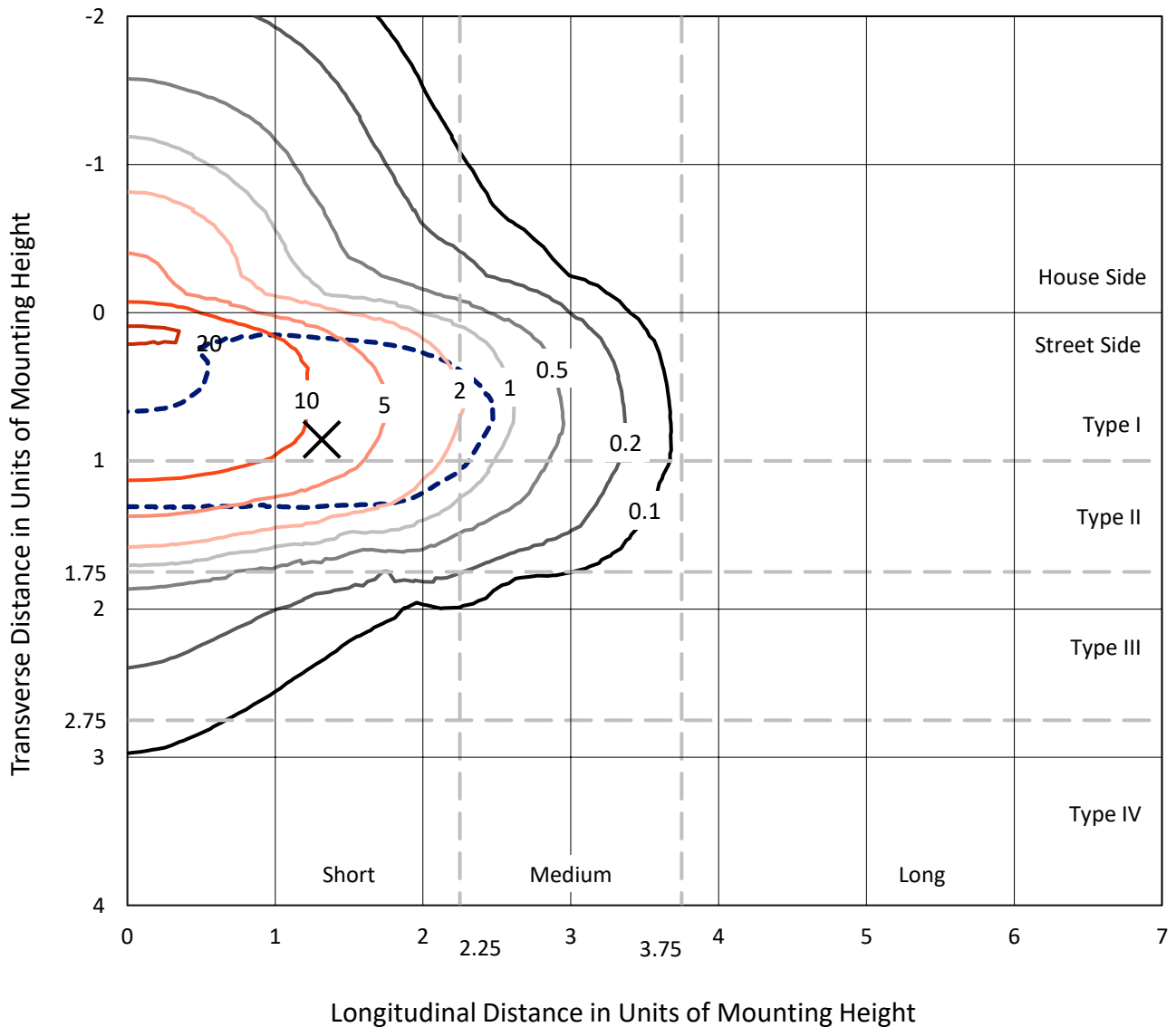
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

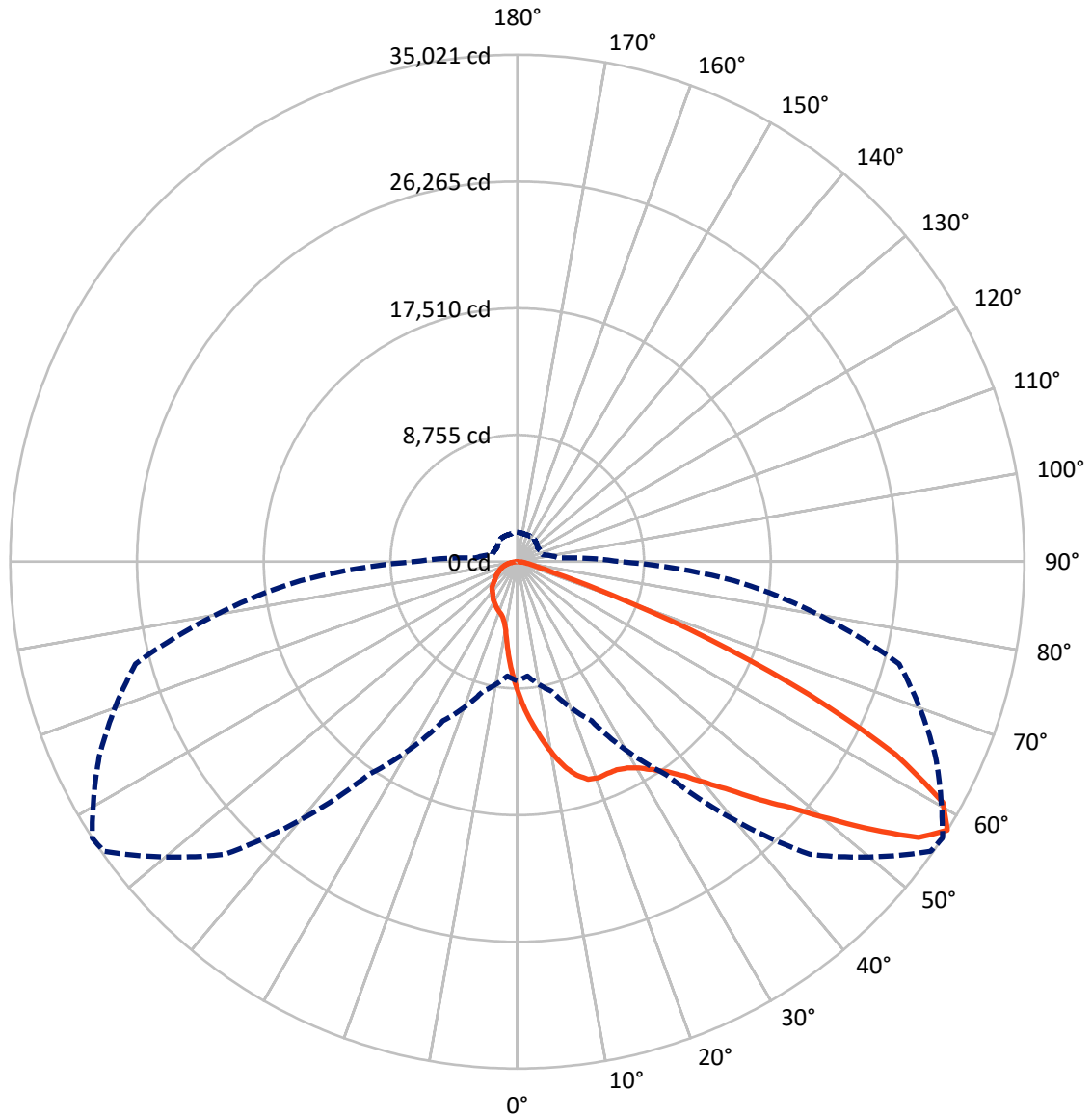
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6562.2	0.0	6562.2
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	36589.8	0.0	36589.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	43152.0	0.0	43152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.3	2.0
10°-20°	2567.8	6.0
20°-30°	4263.9	9.9
30°-40°	6422.6	14.9
40°-50°	9642.9	22.3
50°-60°	10808.5	25.0
60°-70°	6325.7	14.7
70°-80°	1871.1	4.3
80°-90°	378.2	0.9
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°	43152.0	100.0
0°-180°	43152.0	100.0

**Coefficient of Utilization**



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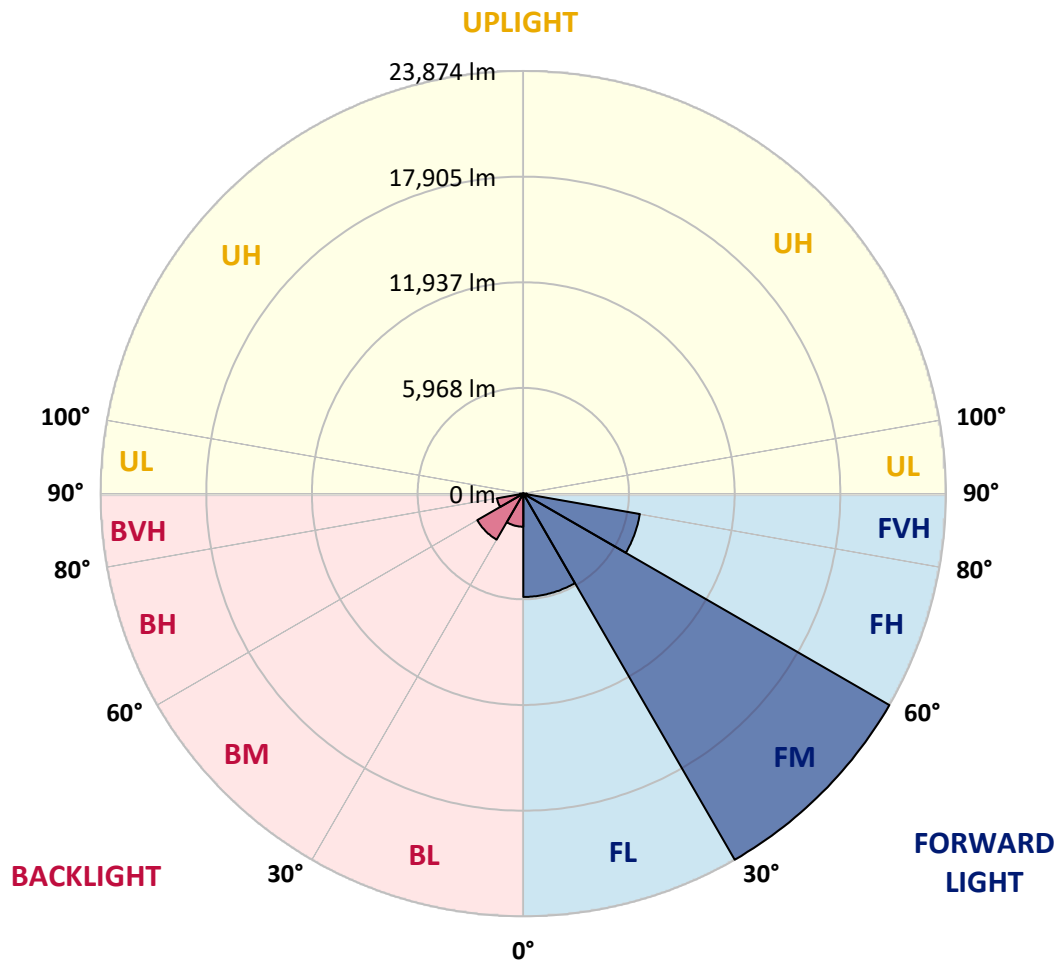
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5833.2	13.5			
FM	(30°-60°)	23873.6	55.3			
FH	(60°-80°)	6686.8	15.5			G3/7500
FVH	(80°-90°)	196.2	0.5			G2/225
BL	(0°-30°)	1869.8	4.3	B3/2500		
BM	(30°-60°)	3000.5	7.0	B3/5000		
BH	(60°-80°)	1509.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	182.0	0.4			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7
2.5°	11264.9	11142.0	11045.2	10960.1	10849.1	10549.1	10249.2	10244.4	10005.9	9637.4	9259.4
5°	13100.2	12934.9	12956.1	12691.6	12427.0	11992.4	11357.0	11323.9	10816.1	10126.3	9424.8
7.5°	14295.4	14297.8	14231.7	14080.5	13794.7	13301.0	12580.5	12417.6	11711.3	10664.9	9613.7
10°	14234.0	14297.8	14408.8	14538.7	14626.1	14382.8	13726.2	13527.7	12608.9	11316.8	9824.0
12.5°	13416.7	13515.9	13674.2	14000.2	14526.9	14928.5	14704.1	14543.5	13648.2	11966.4	10055.5
15°	12906.5	12965.6	13053.0	13272.6	13839.5	14800.9	15382.0	15297.0	14628.5	12701.0	10315.3
17.5°	12750.6	12809.7	12838.0	12972.7	13376.6	14361.6	15648.9	15800.1	15497.7	13376.6	10577.5
20°	12906.5	12934.9	12934.9	13015.2	13331.7	14104.1	15637.1	15941.8	16211.1	14186.8	10823.1
22.5°	13315.2	13327.0	13310.4	13338.8	13575.0	14175.0	15526.1	15904.0	16787.4	14874.1	11014.5
25°	13978.9	13997.8	13889.2	13823.0	13995.4	14486.8	15587.5	15934.7	17238.6	15530.8	11142.0
27.5°	14732.4	14756.0	14623.8	14470.2	14550.5	14871.8	15828.4	16140.2	17576.4	16178.0	11222.3
30°	15656.0	15665.4	15443.4	15259.2	15207.2	15445.8	16239.4	16530.0	17996.8	16941.0	11342.8
32.5°	16600.8	16671.7	16385.9	16126.1	16038.7	16111.9	16846.5	17127.6	18497.6	17760.6	11536.5
35°	17885.8	17897.6	17555.1	17238.6	16950.4	17044.9	17623.6	17826.8	19189.7	18707.8	11810.5
37.5°	19489.7	19598.3	19125.9	18535.4	18181.1	18044.1	18563.7	18785.8	20160.5	19870.0	12223.9
40°	21270.7	21310.9	20907.0	20538.5	19891.2	19494.4	19853.5	20094.4	21358.1	21256.5	12703.4
42.5°	22390.3	22477.7	22508.5	22470.7	21984.1	21318.0	21455.0	21568.3	22775.4	22558.1	13194.7
45°	22768.3	22898.2	23337.6	24268.2	24320.2	23663.5	23344.6	23453.3	24320.2	23871.4	13664.8
47.5°	22142.3	22364.4	23174.6	25083.1	26512.2	26561.8	25600.4	25361.9	25728.0	24960.3	14004.9
50°	20524.3	20571.5	21811.6	24575.3	27539.7	29332.6	28338.1	27894.0	27064.9	25765.8	14238.7
52.5°	18020.5	18074.8	19114.1	22215.6	26906.7	31269.5	31541.1	30747.5	28423.2	26391.7	14392.3
55°	13376.6	13690.7	14834.0	17831.5	23906.8	31087.6	34087.5	33636.3	30064.8	26887.8	14633.2
57.5°	8224.8	7936.7	9292.5	12131.7	17980.3	28588.5	34874.1	35020.5	31871.8	27303.5	15037.1
60°	3784.1	3840.8	4400.6	6257.2	10960.1	22364.4	32847.4	33773.3	32871.0	27289.3	15138.7
62.5°	2607.8	2555.8	2414.1	2747.1	4998.2	14144.3	27745.2	29313.7	30867.9	26441.4	14734.8
65°	2331.4	2279.4	2005.4	1913.3	2296.0	6165.1	20170.0	22149.4	25990.2	24301.3	13728.5
67.5°	2177.9	2107.0	1823.5	1644.0	1639.3	2454.2	11893.2	14276.5	19277.1	20545.5	11895.5
70°	2017.2	1960.5	1679.5	1481.0	1396.0	1542.5	5227.3	6843.0	12516.8	14805.6	9266.5
72.5°	1856.6	1790.5	1537.7	1325.1	1214.1	1155.1	2003.1	2605.4	7072.1	8876.8	5680.9
75°	1622.8	1589.7	1374.7	1199.9	1079.5	933.0	1270.8	1450.3	3382.5	4077.0	2851.1
77.5°	1419.6	1384.2	1221.2	1048.8	961.4	758.2	902.3	985.0	1426.7	1653.5	1287.3
80°	1039.3	1074.8	1029.9	925.9	857.4	595.2	607.1	675.6	848.0	937.8	786.6
82.5°	659.0	725.2	793.7	713.4	649.6	470.1	420.5	446.4	578.7	614.1	349.6
85°	276.4	281.1	460.6	434.6	370.8	278.7	252.7	266.9	309.4	323.6	163.0
87.5°	106.3	103.9	163.0	151.2	115.7	80.3	80.3	89.8	122.8	113.4	52.0
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°	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7	9065.7
2.5°	9096.4	8928.7	8595.7	8182.3	7880.0	7539.8	7239.8	7024.9	6944.6	6906.8	6835.9
5°	9089.4	8758.7	8068.9	7346.1	6765.1	6169.8	5666.7	5340.7	5312.4	5095.1	5073.8
7.5°	9091.7	8586.2	7487.9	6424.9	5539.1	4929.7	4514.0	4405.3	4275.4	4242.3	4258.9
10°	9098.8	8366.6	6864.3	5513.1	4655.7	4256.5	4100.6	4058.1	4062.8	4077.0	4079.3
12.5°	9108.3	8154.0	6217.0	4821.0	4159.7	3994.3	3977.8	4015.6	4055.7	4086.4	4093.5
15°	9120.1	7910.7	5586.4	4263.6	3911.6	3897.5	3951.8	4015.6	4072.3	4117.1	4124.2
17.5°	9105.9	7627.2	5057.3	3921.1	3774.6	3843.1	3932.9	4013.2	4065.2	4107.7	4112.4
20°	9072.8	7310.7	4547.0	3680.2	3689.6	3800.6	3897.5	3973.1	4029.7	4051.0	4067.5
22.5°	8945.3	6932.8	4103.0	3493.5	3588.0	3741.6	3857.3	3902.2	3838.4	3793.5	3805.3
25°	8728.0	6441.4	3689.6	3342.4	3495.9	3658.9	3777.0	3668.3	3616.4	3597.5	3606.9
27.5°	8456.3	5902.9	3377.8	3184.1	3377.8	3566.8	3533.7	3514.8	3491.2	3460.5	3467.6
30°	8163.4	5376.1	3113.2	3061.3	3250.3	3358.9	3373.1	3403.8	3377.8	3330.6	3349.5
32.5°	7891.8	4880.1	2912.5	2957.3	3160.5	3144.0	3250.3	3285.7	3165.2	3007.0	3014.0
35°	7660.3	4419.5	2761.3	2855.8	3007.0	3014.0	3120.3	2997.5	2867.6	2792.0	2796.7
37.5°	7485.5	4060.5	2662.1	2768.4	2810.9	2900.7	2844.0	2780.2	2763.7	2711.7	2714.1
40°	7381.6	3746.3	2598.3	2699.9	2692.8	2754.2	2572.3	2636.1	2659.7	2643.2	2645.6
42.5°	7277.6	3524.3	2532.2	2605.4	2603.0	2482.6	2442.4	2496.7	2558.2	2565.2	2560.5
45°	7195.0	3351.8	2463.7	2461.3	2508.6	2319.6	2307.8	2340.8	2428.2	2470.8	2468.4
47.5°	7102.8	3207.7	2359.7	2293.6	2307.8	2218.0	2199.1	2213.3	2319.6	2388.1	2407.0
50°	6987.1	3063.6	2229.8	2140.1	2081.0	2123.5	2128.3	2130.6	2236.9	2314.9	2331.4
52.5°	6895.0	2955.0	2081.0	2014.9	1944.0	2038.5	2073.9	2078.6	2142.4	2206.2	2218.0
55°	6949.3	2893.6	1934.6	1887.3	1823.5	1951.1	2019.6	2029.0	2043.2	2090.5	2097.5
57.5°	7112.3	2907.7	1816.5	1755.0	1707.8	1847.2	1962.9	1970.0	1960.5	2017.2	2026.7
60°	7161.9	2900.7	1729.1	1608.6	1580.2	1736.1	1880.2	1894.4	1892.0	1974.7	1991.3
62.5°	6954.0	2810.9	1641.7	1485.8	1466.9	1622.8	1764.5	1821.2	1833.0	1951.1	1972.4
65°	6465.1	2626.7	1525.9	1355.8	1355.8	1502.3	1653.5	1731.4	1764.5	1922.7	1946.4
67.5°	5820.2	2409.3	1407.8	1244.8	1240.1	1386.6	1535.4	1615.7	1667.6	1882.6	1896.8
70°	4830.5	2116.4	1261.4	1124.4	1124.4	1256.6	1391.3	1488.1	1563.7	1807.0	1807.0
72.5°	3309.3	1759.8	1084.2	987.4	989.7	1112.5	1249.6	1358.2	1448.0	1655.8	1660.6
75°	2092.8	1374.7	890.5	840.9	850.4	966.1	1107.8	1221.2	1400.7	1636.9	1644.0
77.5°	1112.5	966.1	708.6	696.8	708.6	814.9	973.2	1129.1	1405.4	1419.6	1396.0
80°	720.4	685.0	559.8	536.2	540.9	656.7	866.9	1072.4	1129.1	1143.3	1091.3
82.5°	392.1	434.6	396.8	373.2	373.2	512.6	739.3	852.7	810.2	673.2	642.5
85°	167.7	203.1	205.5	179.5	172.4	316.5	496.0	465.3	432.3	413.4	408.6
87.5°	47.2	66.1	66.1	49.6	37.8	87.4	99.2	28.3	0.0	2.4	4.7
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)