

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: P455153

Luminaire Tested: **GALN-SA6B-750-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455153  
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-SA6B-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34073 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

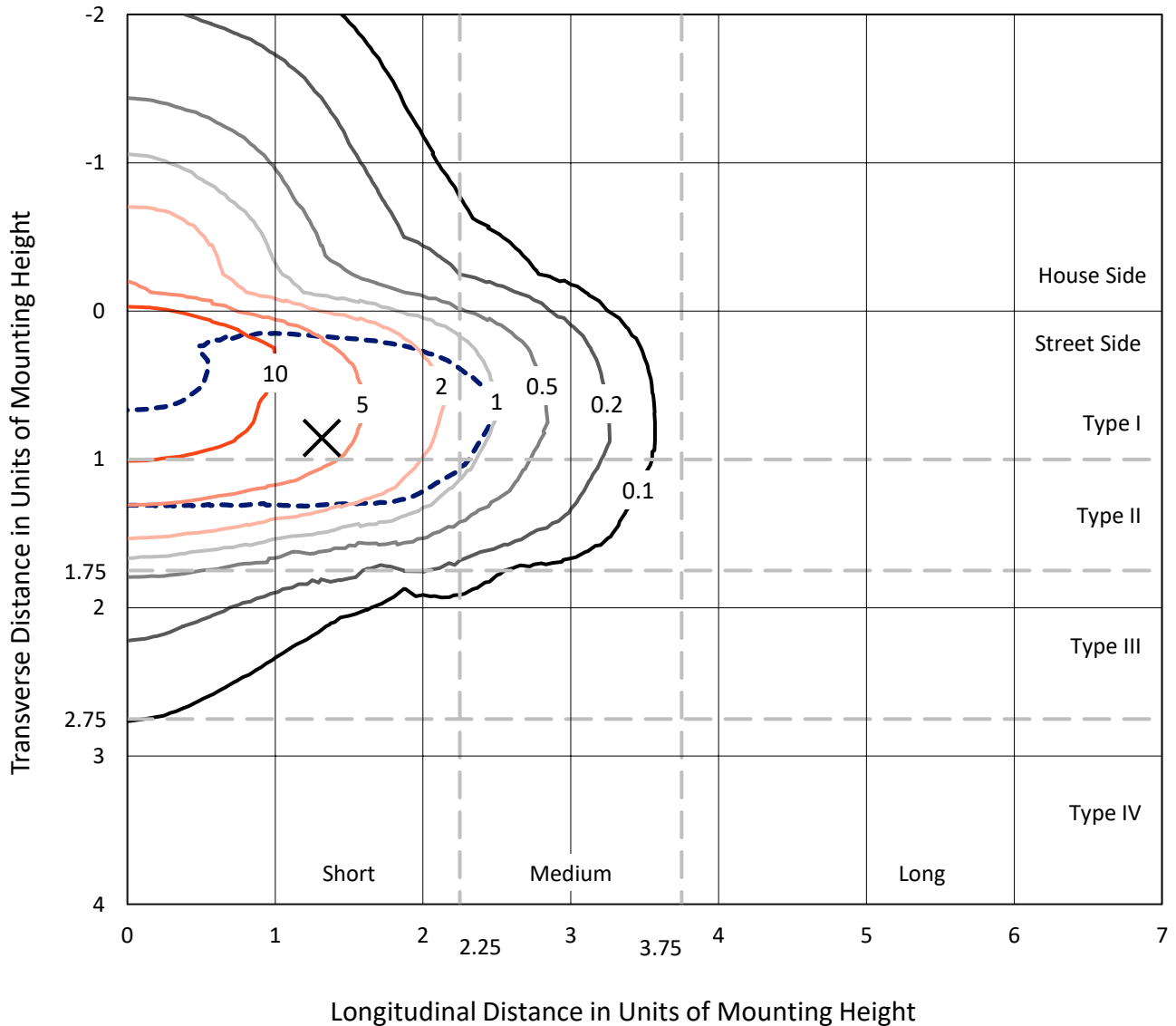
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

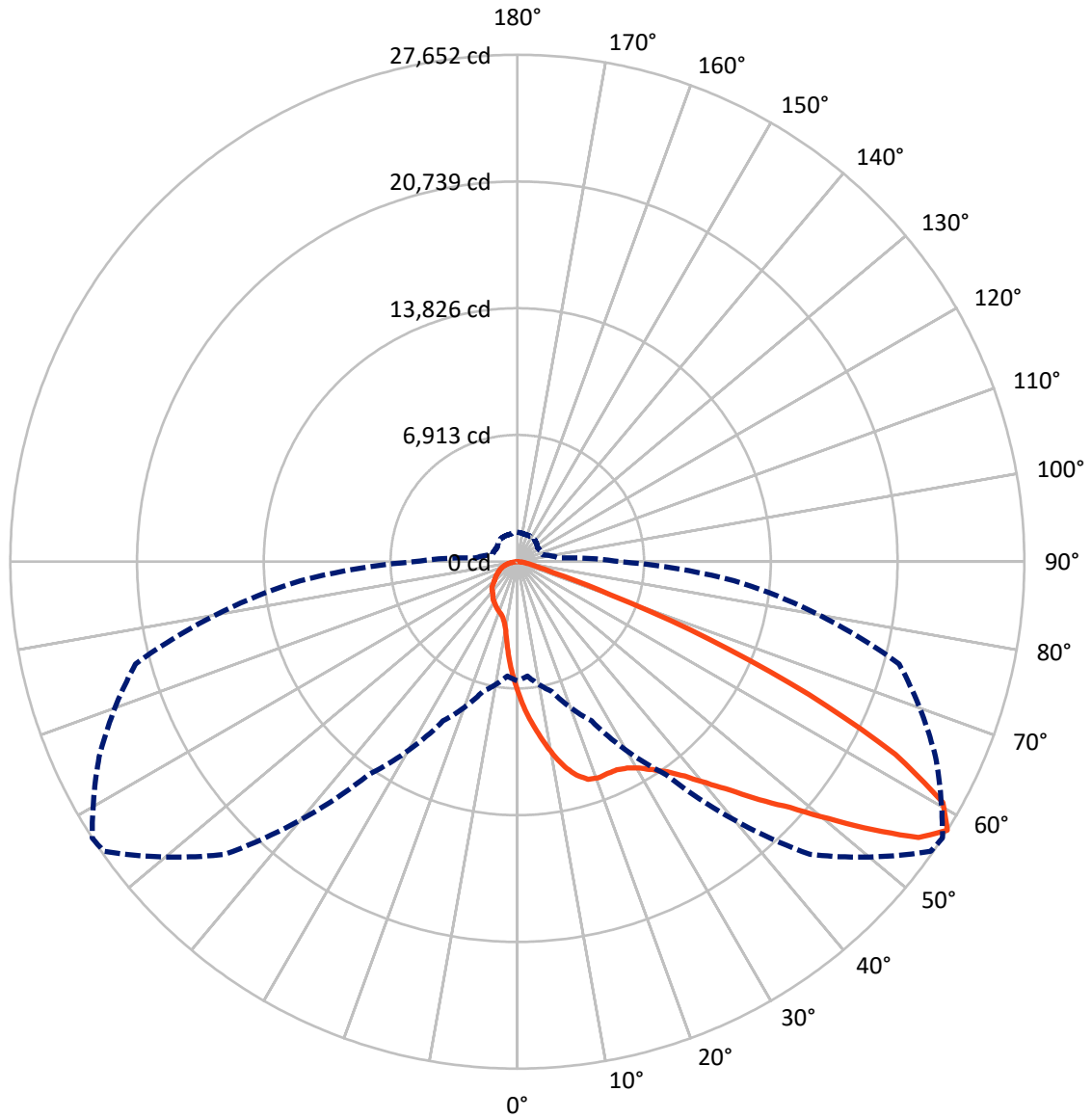
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	5181.5	0.0	5181.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	28891.5	0.0	28891.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	34073.0	0.0	34073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.0	2.0
10°-20°	2027.5	6.0
20°-30°	3366.8	9.9
30°-40°	5071.3	14.9
40°-50°	7614.1	22.3
50°-60°	8534.5	25.0
60°-70°	4994.8	14.7
70°-80°	1477.4	4.3
80°-90°	298.6	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°	34073.0	100.0
0°-180°	34073.0	100.0

**Coefficient of Utilization**



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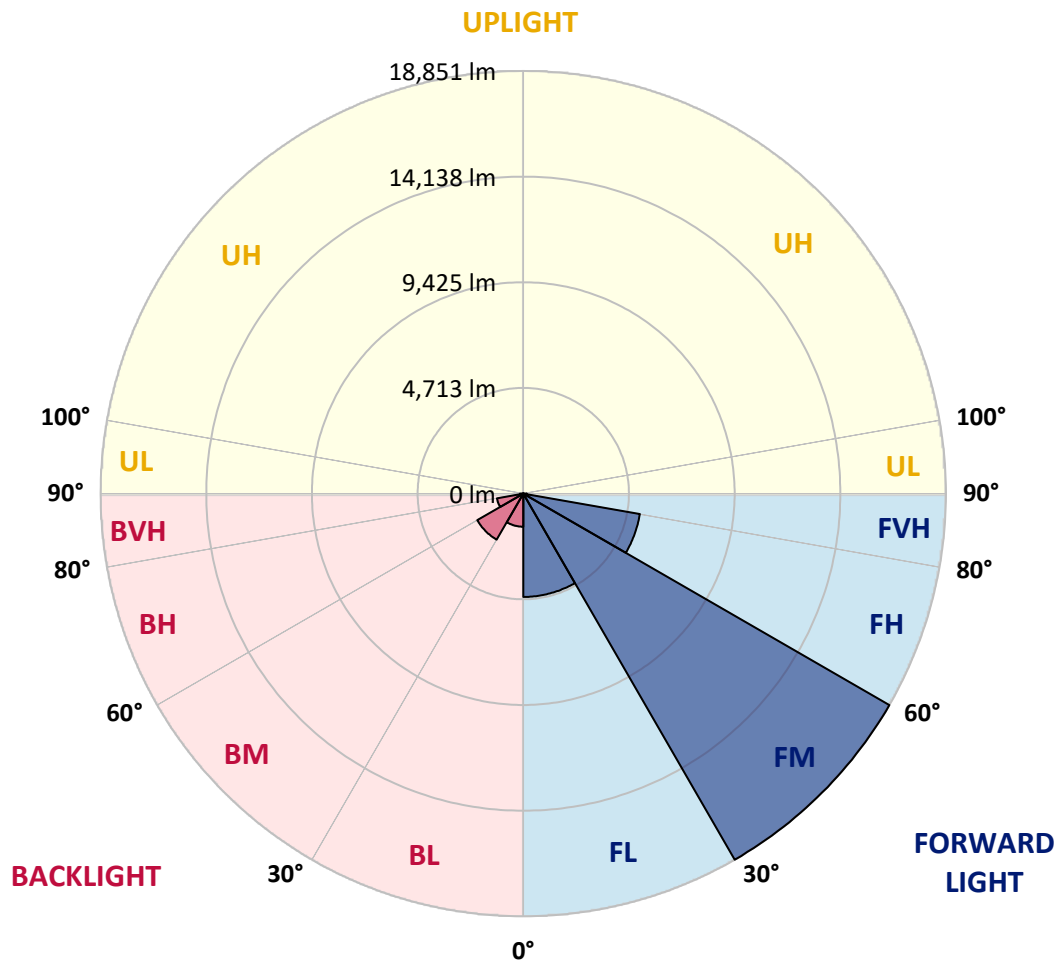
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4605.9	13.5			
FM	(30°-60°)	18850.7	55.3			
FH	(60°-80°)	5280.0	15.5			G3/7500
FVH	(80°-90°)	154.9	0.5			G2/225
BL	(0°-30°)	1476.4	4.3	B3/2500		
BM	(30°-60°)	2369.2	7.0	B2/2500		
BH	(60°-80°)	1192.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	143.7	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°	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3
2.5°	8894.8	8797.8	8721.3	8654.2	8566.5	8329.6	8092.8	8089.0	7900.7	7609.7	7311.3
5°	10344.0	10213.4	10230.2	10021.3	9812.4	9469.2	8967.5	8941.4	8540.4	7995.8	7441.8
7.5°	11287.7	11289.6	11237.4	11118.0	10892.3	10502.5	9933.7	9805.0	9247.3	8421.0	7591.1
10°	11239.2	11289.6	11377.3	11479.8	11548.9	11356.7	10838.2	10681.6	9956.0	8935.8	7757.1
12.5°	10593.9	10672.2	10797.2	11054.6	11470.5	11787.6	11610.4	11483.6	10776.7	9448.7	7939.8
15°	10191.0	10237.7	10306.7	10480.1	10927.8	11686.9	12145.7	12078.5	11550.7	10028.8	8145.0
17.5°	10067.9	10114.6	10137.0	10243.3	10562.2	11340.0	12356.4	12475.8	12237.1	10562.2	8352.0
20°	10191.0	10213.4	10213.4	10276.8	10526.8	11136.7	12347.1	12587.7	12800.3	11201.9	8546.0
22.5°	10513.7	10523.0	10510.0	10532.4	10718.9	11192.6	12259.5	12557.9	13255.4	11744.7	8697.1
25°	11037.8	11052.7	10966.9	10914.7	11050.9	11438.8	12308.0	12582.1	13611.7	12263.2	8797.8
27.5°	11632.8	11651.4	11547.0	11425.8	11489.2	11742.8	12498.2	12744.4	13878.4	12774.2	8861.2
30°	12362.0	12369.5	12194.2	12048.7	12007.7	12196.0	12822.7	13052.1	14210.4	13376.7	8956.3
32.5°	13108.1	13164.0	12938.4	12733.2	12664.2	12722.0	13302.1	13524.0	14605.8	14023.9	9109.3
35°	14122.7	14132.0	13861.6	13611.7	13384.1	13458.7	13915.7	14076.1	15152.3	14771.8	9325.6
37.5°	15389.1	15474.9	15101.9	14635.6	14355.9	14247.7	14658.0	14833.3	15918.8	15689.4	9652.0
40°	16795.4	16827.2	16508.2	16217.3	15706.2	15392.9	15676.4	15866.6	16864.5	16784.3	10030.6
42.5°	17679.5	17748.5	17772.8	17742.9	17358.7	16832.7	16940.9	17030.5	17983.5	17811.9	10418.6
45°	17977.9	18080.5	18427.4	19162.3	19203.3	18684.8	18433.0	18518.8	19203.3	18848.9	10789.7
47.5°	17483.7	17659.0	18298.7	19805.8	20934.2	20973.3	20214.2	20025.8	20314.9	19708.8	11058.3
50°	16206.1	16243.4	17222.6	19404.8	21745.5	23161.1	22375.9	22025.3	21370.6	20344.8	11243.0
52.5°	14229.0	14271.9	15092.6	17541.5	21245.6	24690.5	24905.0	24278.3	22443.0	20839.0	11364.2
55°	10562.2	10810.3	11713.0	14079.8	18876.9	24546.9	26915.6	26559.4	23739.3	21230.7	11554.4
57.5°	6494.4	6266.8	7337.4	9579.3	14197.3	22573.6	27536.7	27652.3	25166.1	21559.0	11873.4
60°	2987.9	3032.7	3474.7	4940.7	8654.2	17659.0	25936.4	26667.5	25955.1	21547.8	11953.6
62.5°	2059.1	2018.1	1906.2	2169.1	3946.6	11168.4	21907.8	23146.2	24373.4	20878.2	11634.6
65°	1840.9	1799.8	1583.5	1510.8	1812.9	4868.0	15926.3	17489.3	20522.0	19188.4	10840.1
67.5°	1719.6	1663.7	1439.9	1298.1	1294.4	1937.9	9390.9	11272.8	15221.3	16222.9	9392.8
70°	1592.8	1548.1	1326.1	1169.4	1102.3	1217.9	4127.5	5403.3	9883.3	11690.6	7316.9
72.5°	1466.0	1413.8	1214.2	1046.3	958.7	912.0	1581.6	2057.2	5584.2	7009.1	4485.6
75°	1281.3	1255.2	1085.5	947.5	852.4	736.7	1003.4	1145.2	2670.9	3219.2	2251.2
77.5°	1120.9	1093.0	964.3	828.1	759.1	598.7	712.5	777.8	1126.5	1305.6	1016.5
80°	820.7	848.6	813.2	731.1	677.0	470.0	479.3	533.4	669.6	740.5	621.1
82.5°	520.4	572.6	626.7	563.3	512.9	371.2	332.0	352.5	457.0	484.9	276.0
85°	218.2	221.9	363.7	343.2	292.8	220.1	199.6	210.8	244.3	255.5	128.7
87.5°	83.9	82.1	128.7	119.4	91.4	63.4	63.4	70.9	97.0	89.5	41.0
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°	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3	7158.3
2.5°	7182.6	7050.2	6787.2	6460.8	6222.1	5953.5	5716.6	5546.9	5483.5	5453.6	5397.7
5°	7177.0	6915.9	6371.3	5800.5	5341.7	4871.7	4474.4	4217.0	4194.7	4023.1	4006.3
7.5°	7178.9	6779.7	5912.4	5073.1	4373.7	3892.5	3564.3	3478.5	3375.9	3349.8	3362.8
10°	7184.5	6606.3	5420.1	4353.2	3676.2	3361.0	3237.9	3204.3	3208.0	3219.2	3221.1
12.5°	7191.9	6438.4	4909.0	3806.7	3284.5	3153.9	3140.9	3170.7	3202.4	3226.7	3232.3
15°	7201.2	6246.3	4411.0	3366.5	3088.6	3077.5	3120.4	3170.7	3215.5	3250.9	3256.5
17.5°	7190.1	6022.5	3993.2	3096.1	2980.5	3034.6	3105.4	3168.8	3209.9	3243.5	3247.2
20°	7163.9	5772.6	3590.4	2905.9	2913.3	3001.0	3077.5	3137.1	3181.9	3198.7	3211.7
22.5°	7063.2	5474.1	3239.7	2758.5	2833.1	2954.4	3045.7	3081.2	3030.8	2995.4	3004.7
25°	6891.6	5086.2	2913.3	2639.2	2760.4	2889.1	2982.3	2896.5	2855.5	2840.6	2848.0
27.5°	6677.1	4660.9	2667.1	2514.2	2667.1	2816.3	2790.2	2775.3	2756.7	2732.4	2738.0
30°	6445.9	4245.0	2458.2	2417.2	2566.4	2652.2	2663.4	2687.6	2667.1	2629.8	2644.7
32.5°	6231.4	3853.3	2299.7	2335.1	2495.5	2482.5	2566.4	2594.4	2499.3	2374.3	2379.9
35°	6048.6	3489.6	2180.3	2254.9	2374.3	2379.9	2463.8	2366.8	2264.3	2204.6	2208.3
37.5°	5910.6	3206.1	2102.0	2185.9	2219.5	2290.4	2245.6	2195.3	2182.2	2141.2	2143.0
40°	5828.5	2958.1	2051.6	2131.8	2126.2	2174.7	2031.1	2081.5	2100.1	2087.1	2088.9
42.5°	5746.4	2782.8	1999.4	2057.2	2055.4	1960.2	1928.5	1971.4	2019.9	2025.5	2021.8
45°	5681.2	2646.6	1945.3	1943.5	1980.8	1831.6	1822.2	1848.3	1917.3	1950.9	1949.1
47.5°	5608.4	2532.8	1863.3	1811.0	1822.2	1751.4	1736.4	1747.6	1831.6	1885.6	1900.6
50°	5517.0	2419.1	1760.7	1689.8	1643.2	1676.7	1680.5	1682.3	1766.3	1827.8	1840.9
52.5°	5444.3	2333.3	1643.2	1591.0	1535.0	1609.6	1637.6	1641.3	1691.7	1742.0	1751.4
55°	5487.2	2284.8	1527.5	1490.2	1439.9	1540.6	1594.7	1602.1	1613.3	1650.6	1656.2
57.5°	5615.9	2296.0	1434.3	1385.8	1348.5	1458.5	1549.9	1555.5	1548.1	1592.8	1600.3
60°	5655.1	2290.4	1365.3	1270.1	1247.8	1370.9	1484.6	1495.8	1494.0	1559.2	1572.3
62.5°	5490.9	2219.5	1296.3	1173.2	1158.2	1281.3	1393.2	1438.0	1447.3	1540.6	1557.4
65°	5104.8	2074.0	1204.9	1070.6	1070.6	1186.2	1305.6	1367.1	1393.2	1518.2	1536.9
67.5°	4595.7	1902.4	1111.6	982.9	979.2	1094.8	1212.3	1275.7	1316.8	1486.5	1497.7
70°	3814.2	1671.2	996.0	887.8	887.8	992.2	1098.6	1175.0	1234.7	1426.8	1426.8
72.5°	2613.0	1389.5	856.1	779.6	781.5	878.5	986.7	1072.4	1143.3	1307.5	1311.2
75°	1652.5	1085.5	703.2	664.0	671.4	762.8	874.7	964.3	1106.0	1292.5	1298.1
77.5°	878.5	762.8	559.5	550.2	559.5	643.5	768.4	891.5	1109.7	1120.9	1102.3
80°	568.9	540.9	442.0	423.4	427.1	518.5	684.5	846.8	891.5	902.7	861.7
82.5°	309.6	343.2	313.3	294.7	294.7	404.7	583.8	673.3	639.7	531.6	507.3
85°	132.4	160.4	162.3	141.7	136.2	249.9	391.7	367.4	341.3	326.4	322.7
87.5°	37.3	52.2	52.2	39.2	29.8	69.0	78.3	22.4	0.0	1.9	3.7
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)