

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: P456023

Luminaire Tested: **GALN-SA7B-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456023  
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-SA7B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36448 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

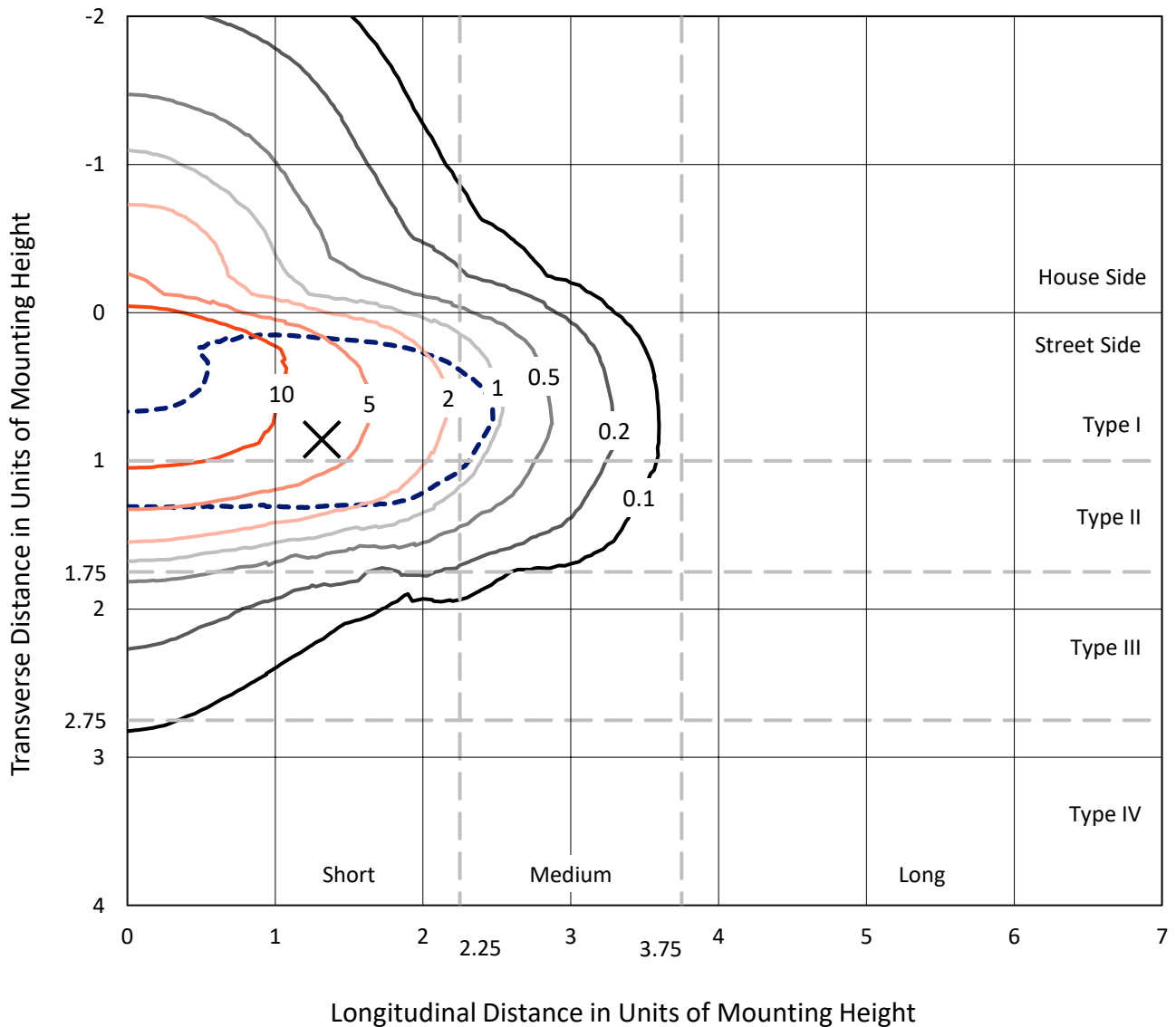
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

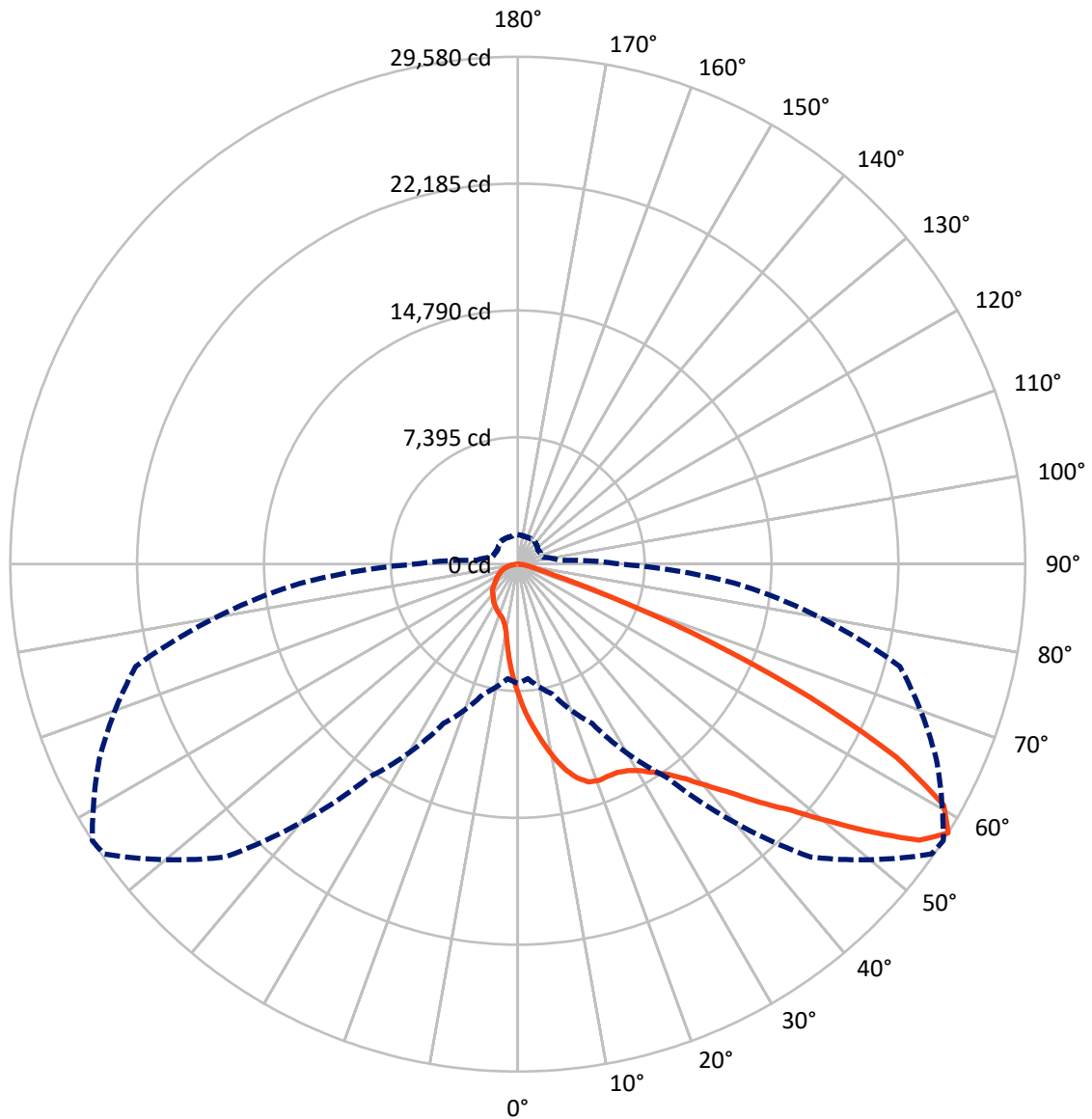
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	5542.7	0.0	5542.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	30905.3	0.0	30905.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	36448.0	0.0	36448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.9	2.0
10°-20°	2168.9	6.0
20°-30°	3601.4	9.9
30°-40°	5424.8	14.9
40°-50°	8144.8	22.3
50°-60°	9129.3	25.0
60°-70°	5342.9	14.7
70°-80°	1580.4	4.3
80°-90°	319.4	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°	36448.0	100.0
0°-180°	36448.0	100.0

**Coefficient of Utilization**



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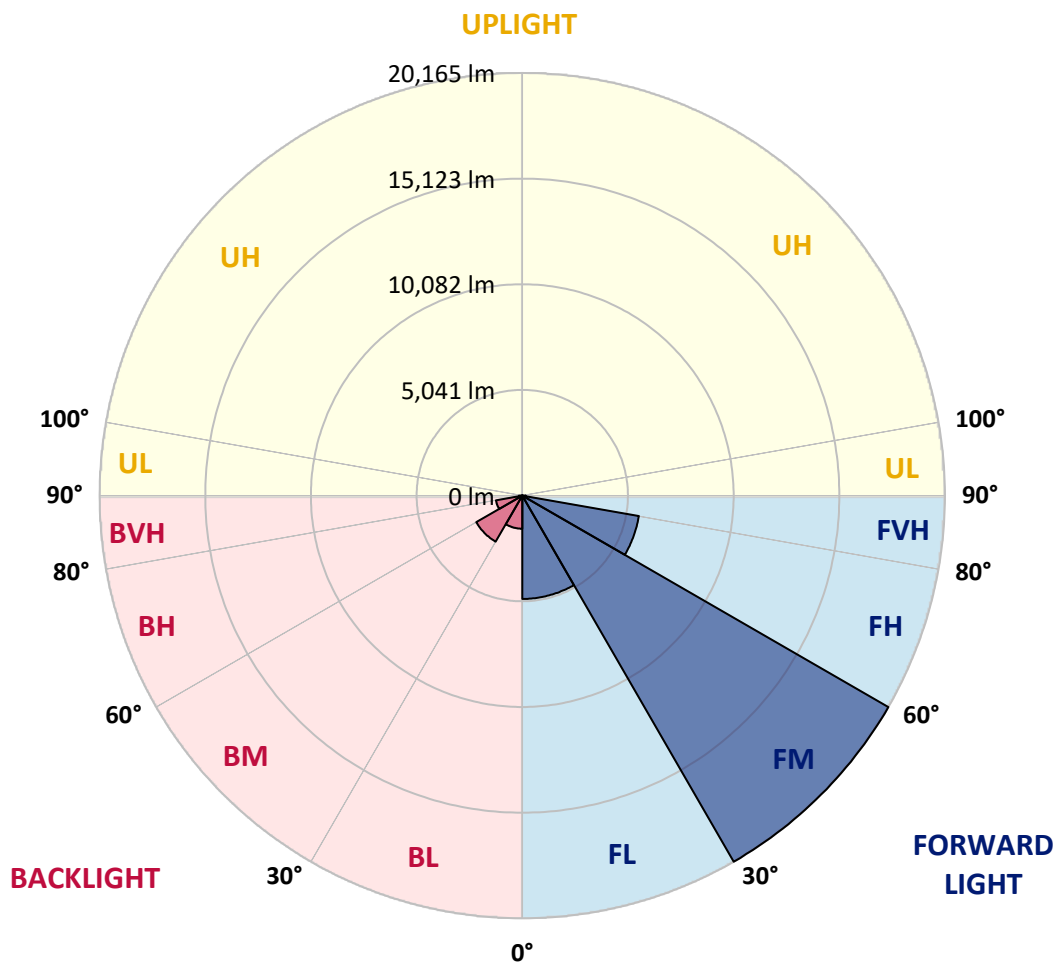
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4926.9	13.5			
FM	(30°-60°)	20164.6	55.3			
FH	(60°-80°)	5648.0	15.5			G3/7500
FVH	(80°-90°)	165.7	0.5			G2/225
BL	(0°-30°)	1579.3	4.3	B3/2500		
BM	(30°-60°)	2534.3	7.0	B3/5000		
BH	(60°-80°)	1275.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	153.7	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°	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3
2.5°	9514.8	9411.0	9329.2	9257.4	9163.6	8910.2	8656.9	8652.9	8451.4	8140.1	7820.9
5°	11065.0	10925.3	10943.3	10719.8	10496.4	10129.3	9592.6	9564.7	9135.7	8553.1	7960.6
7.5°	12074.5	12076.5	12020.7	11893.0	11651.6	11234.6	10626.1	10488.4	9891.9	9008.0	8120.2
10°	12022.7	12076.5	12170.3	12280.0	12353.8	12148.3	11593.7	11426.1	10650.0	9558.7	8297.7
12.5°	11332.3	11416.1	11549.8	11825.1	12270.0	12609.2	12419.7	12284.0	11527.9	10107.3	8493.3
15°	10901.4	10951.3	11025.1	11210.6	11689.5	12501.5	12992.3	12920.5	12355.8	10727.8	8712.7
17.5°	10769.7	10819.6	10843.5	10957.3	11298.4	12130.4	13217.7	13345.4	13090.0	11298.4	8934.2
20°	10901.4	10925.3	10925.3	10993.2	11260.5	11912.9	13207.8	13465.1	13692.6	11982.7	9141.7
22.5°	11246.5	11256.5	11242.6	11266.5	11466.0	11972.8	13114.0	13433.2	14179.4	12563.3	9303.3
25°	11807.2	11823.1	11731.4	11675.5	11821.1	12236.1	13165.9	13459.1	14560.5	13118.0	9411.0
27.5°	12443.6	12463.6	12351.8	12222.2	12290.0	12561.3	13369.4	13632.7	14845.8	13664.6	9478.9
30°	13223.7	13231.7	13044.2	12888.5	12844.6	13046.2	13716.5	13961.9	15200.9	14309.1	9580.6
32.5°	14021.8	14081.6	13840.2	13620.8	13546.9	13608.8	14229.3	14466.7	15623.9	15001.4	9744.2
35°	15107.1	15117.1	14827.8	14560.5	14317.1	14396.9	14885.7	15057.2	16208.4	15801.4	9975.6
37.5°	16461.8	16553.6	16154.6	15655.8	15356.5	15240.8	15679.7	15867.3	17028.4	16783.0	10324.8
40°	17966.1	18000.1	17658.9	17347.7	16801.0	16465.8	16769.1	16972.6	18040.0	17954.2	10729.8
42.5°	18911.8	18985.7	19011.6	18979.7	18568.7	18006.0	18121.8	18217.5	19237.0	19053.5	11144.8
45°	19231.1	19340.8	19711.9	20498.0	20541.9	19987.2	19717.9	19809.6	20541.9	20162.8	11541.8
47.5°	18702.3	18889.9	19574.2	21186.3	22393.3	22435.2	21623.2	21421.7	21731.0	21082.5	11829.1
50°	17335.7	17375.6	18423.0	20757.3	23261.2	24775.5	23935.6	23560.5	22860.2	21762.9	12026.6
52.5°	15220.8	15266.7	16144.6	18764.2	22726.5	26411.5	26641.0	25970.6	24007.4	22291.6	12156.3
55°	11298.4	11563.8	12529.4	15061.2	20192.7	26257.9	28791.7	28410.6	25394.0	22710.6	12359.8
57.5°	6947.0	6703.6	7848.8	10247.0	15186.9	24147.1	29456.1	29579.8	26920.3	23061.7	12701.0
60°	3196.2	3244.1	3716.9	5285.1	9257.4	18889.9	27744.3	28526.4	27764.2	23049.7	12786.8
62.5°	2202.6	2158.7	2039.0	2320.3	4221.7	11946.8	23434.8	24759.6	26072.4	22333.5	12445.6
65°	1969.2	1925.3	1693.9	1616.1	1939.3	5207.3	17036.4	18708.3	21952.4	20525.9	11595.7
67.5°	1839.5	1779.7	1540.2	1388.6	1384.6	2072.9	10045.5	12058.6	16282.3	17353.6	10047.5
70°	1703.8	1656.0	1418.5	1250.9	1179.1	1302.8	4415.2	5779.9	10572.2	12505.5	7826.9
72.5°	1568.2	1512.3	1298.8	1119.3	1025.5	975.6	1691.9	2200.6	5973.4	7497.7	4798.3
75°	1370.7	1342.7	1161.2	1013.5	911.8	788.1	1073.4	1225.0	2857.0	3443.6	2408.1
77.5°	1199.1	1169.1	1031.5	885.8	812.0	640.4	762.1	832.0	1205.1	1396.6	1087.3
80°	877.9	907.8	869.9	782.1	724.2	502.8	512.7	570.6	716.3	792.1	664.4
82.5°	556.6	612.5	670.4	602.5	548.7	397.0	355.1	377.1	488.8	518.7	295.3
85°	233.4	237.4	389.1	367.1	313.2	235.4	213.5	225.4	261.4	273.3	137.7
87.5°	89.8	87.8	137.7	127.7	97.8	67.8	67.8	75.8	103.7	95.8	43.9
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°	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3
2.5°	7683.2	7541.6	7260.3	6911.1	6655.8	6368.5	6115.1	5933.5	5865.7	5833.8	5773.9
5°	7677.3	7397.9	6815.4	6204.9	5714.1	5211.3	4786.3	4511.0	4487.0	4303.5	4285.5
7.5°	7679.3	7252.3	6324.6	5426.8	4678.6	4163.8	3812.7	3720.9	3611.2	3583.3	3597.2
10°	7685.2	7066.7	5797.8	4656.6	3932.4	3595.2	3463.5	3427.6	3431.6	3443.6	3445.6
12.5°	7693.2	6887.2	5251.2	4072.1	3513.4	3373.8	3359.8	3391.7	3425.6	3451.6	3457.6
15°	7703.2	6681.7	4718.5	3601.2	3303.9	3292.0	3337.9	3391.7	3439.6	3477.5	3483.5
17.5°	7691.2	6442.3	4271.6	3311.9	3188.2	3246.1	3321.9	3389.7	3433.6	3469.5	3473.5
20°	7663.3	6174.9	3840.6	3108.4	3116.4	3210.2	3292.0	3355.8	3403.7	3421.6	3435.6
22.5°	7555.6	5855.7	3465.5	2950.8	3030.6	3160.3	3258.0	3296.0	3242.1	3204.2	3214.2
25°	7372.0	5440.7	3116.4	2823.1	2952.8	3090.5	3190.2	3098.4	3054.5	3038.6	3046.6
27.5°	7142.6	4985.8	2853.0	2689.4	2853.0	3012.6	2984.7	2968.8	2948.8	2922.9	2928.9
30°	6895.2	4540.9	2629.6	2585.7	2745.3	2837.1	2849.0	2875.0	2853.0	2813.1	2829.1
32.5°	6665.7	4121.9	2460.0	2497.9	2669.5	2655.5	2745.3	2775.2	2673.5	2539.8	2545.8
35°	6470.2	3732.9	2332.3	2412.1	2539.8	2545.8	2635.6	2531.8	2422.1	2358.2	2362.2
37.5°	6322.6	3429.6	2248.5	2338.3	2374.2	2450.0	2402.1	2348.3	2334.3	2290.4	2292.4
40°	6234.8	3164.3	2194.6	2280.4	2274.4	2326.3	2172.7	2226.6	2246.5	2232.6	2234.5
42.5°	6147.0	2976.7	2138.8	2200.6	2198.6	2096.9	2063.0	2108.9	2160.7	2166.7	2162.7
45°	6077.2	2831.1	2080.9	2078.9	2118.8	1959.2	1949.2	1977.2	2051.0	2086.9	2084.9
47.5°	5999.4	2709.4	1993.1	1937.3	1949.2	1873.4	1857.5	1869.4	1959.2	2017.1	2033.0
50°	5901.6	2587.7	1883.4	1807.6	1757.7	1793.6	1797.6	1799.6	1889.4	1955.2	1969.2
52.5°	5823.8	2495.9	1757.7	1701.8	1642.0	1721.8	1751.7	1755.7	1809.6	1863.5	1873.4
55°	5869.7	2444.0	1634.0	1594.1	1540.2	1648.0	1705.8	1713.8	1725.8	1765.7	1771.7
57.5°	6007.3	2456.0	1534.3	1482.4	1442.5	1560.2	1658.0	1663.9	1656.0	1703.8	1711.8
60°	6049.2	2450.0	1460.4	1358.7	1334.7	1466.4	1588.1	1600.1	1598.1	1667.9	1681.9
62.5°	5873.7	2374.2	1386.6	1254.9	1239.0	1370.7	1490.4	1538.2	1548.2	1648.0	1665.9
65°	5460.7	2218.6	1288.9	1145.2	1145.2	1268.9	1396.6	1462.4	1490.4	1624.0	1644.0
67.5°	4916.0	2035.0	1189.1	1051.4	1047.4	1171.1	1296.8	1364.7	1408.6	1590.1	1602.1
70°	4080.0	1787.6	1065.4	949.7	949.7	1061.4	1175.1	1256.9	1320.8	1526.3	1526.3
72.5°	2795.2	1486.4	915.8	834.0	836.0	939.7	1055.4	1147.2	1223.0	1398.6	1402.6
75°	1767.7	1161.2	752.2	710.3	718.2	816.0	935.7	1031.5	1183.1	1382.6	1388.6
77.5°	939.7	816.0	598.5	588.6	598.5	688.3	822.0	953.7	1187.1	1199.1	1179.1
80°	608.5	578.6	472.8	452.9	456.9	554.6	732.2	905.8	953.7	965.6	921.7
82.5°	331.2	367.1	335.2	315.2	315.2	432.9	624.5	720.2	684.3	568.6	542.7
85°	141.7	171.6	173.6	151.6	145.6	267.3	419.0	393.0	365.1	349.1	345.2
87.5°	39.9	55.9	55.9	41.9	31.9	73.8	83.8	23.9	0.0	2.0	4.0
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)