

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: P457183

Luminaire Tested: **GALN-SA8C-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457183  
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-SA8C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52208 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

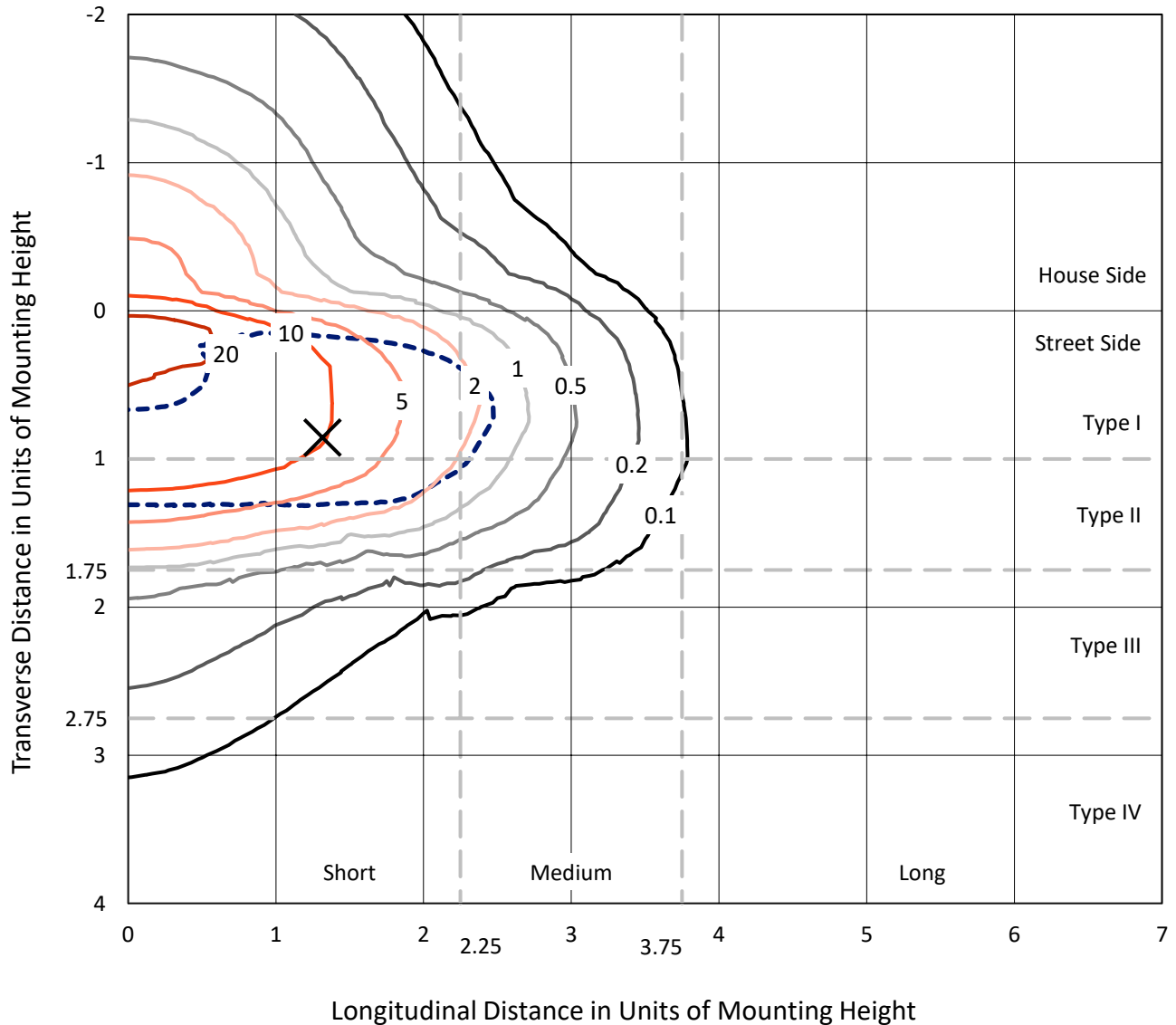
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

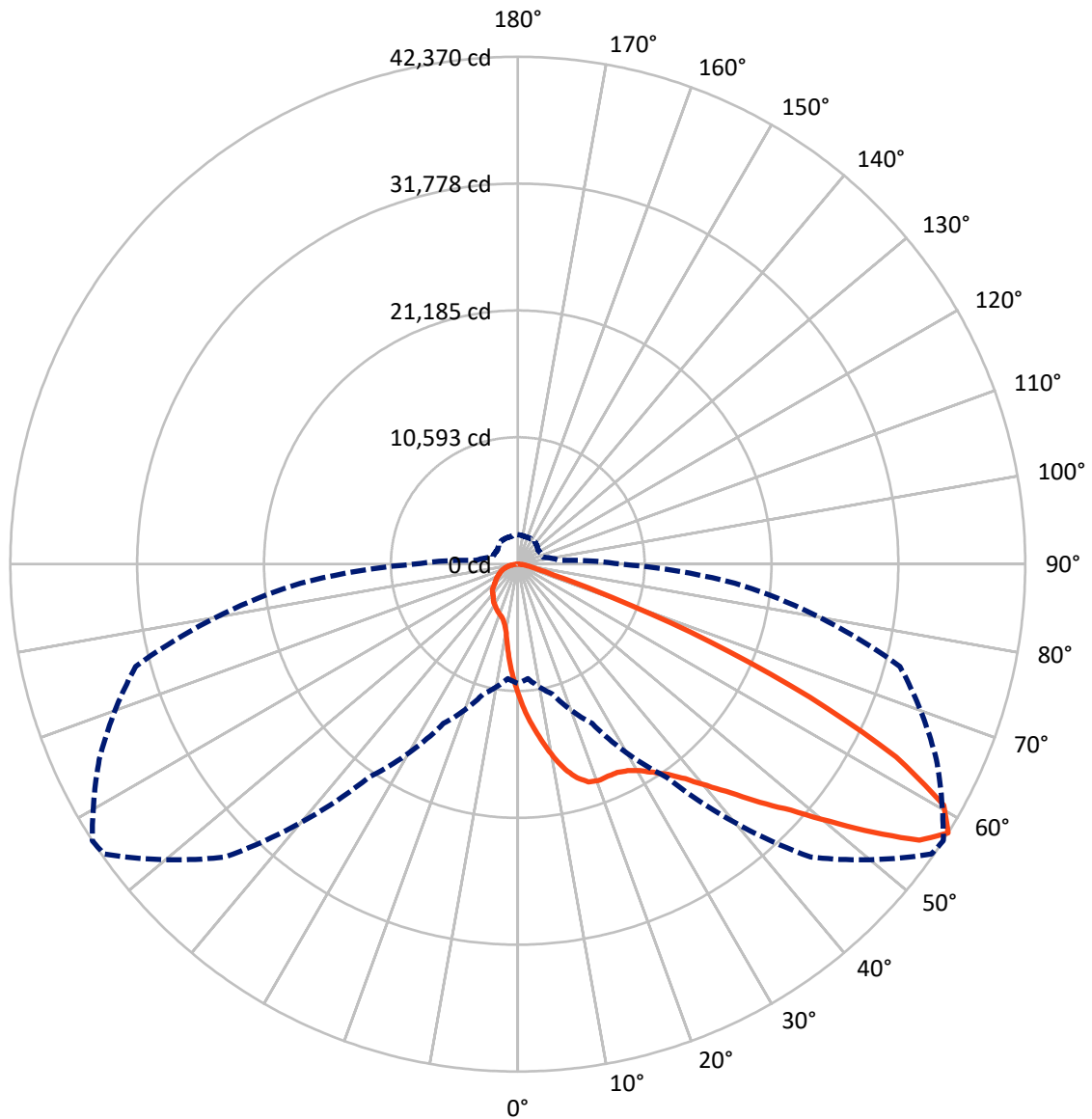
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.7 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	7939.4	0.0	7939.4
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	44268.6	0.0	44268.6
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	52208.0	0.0	52208.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.2	2.0
10°-20°	3106.7	6.0
20°-30°	5158.7	9.9
30°-40°	7770.5	14.9
40°-50°	11666.6	22.3
50°-60°	13076.8	25.0
60°-70°	7653.2	14.7
70°-80°	2263.8	4.3
80°-90°	457.6	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°	52208.0	100.0
0°-180°	52208.0	100.0

**Coefficient of Utilization**



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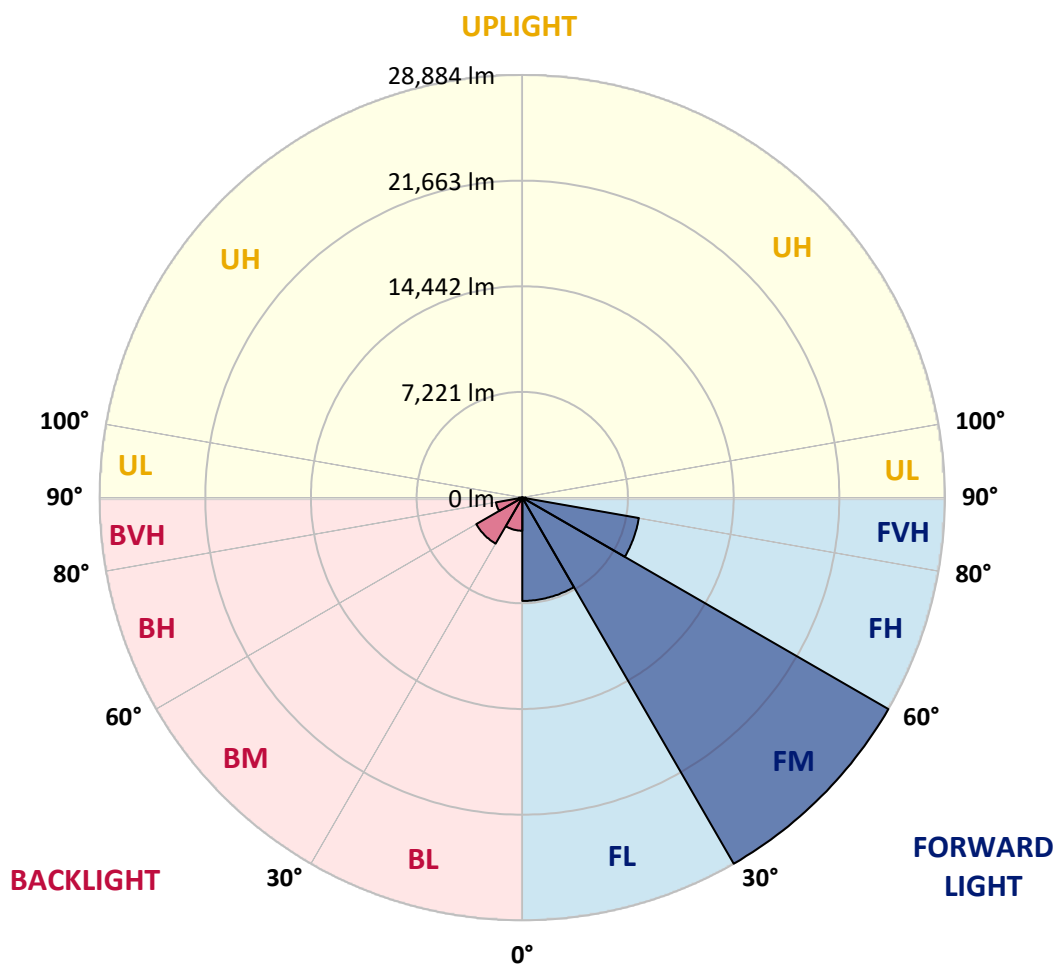
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7057.3	13.5			
FM	(30°-60°)	28883.8	55.3			
FH	(60°-80°)	8090.2	15.5			G4/12000
FVH	(80°-90°)	237.4	0.5			G3/500
BL	(0°-30°)	2262.2	4.3	B3/2500		
BM	(30°-60°)	3630.2	7.0	B3/5000		
BH	(60°-80°)	1826.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	220.2	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3
2.5°	13628.9	13480.3	13363.2	13260.3	13126.0	12763.0	12400.1	12394.4	12105.7	11659.9	11202.6
5°	15849.5	15649.4	15675.1	15355.1	15035.0	14509.1	13740.4	13700.4	13085.9	12251.5	11402.7
7.5°	17295.5	17298.4	17218.3	17035.4	16689.7	16092.4	15220.7	15023.5	14169.1	12903.0	11631.3
10°	17221.2	17298.4	17432.7	17589.9	17695.6	17401.3	16606.8	16366.7	15255.0	13691.8	11885.7
12.5°	16232.4	16352.4	16543.9	16938.3	17575.6	18061.4	17789.9	17595.6	16512.5	14477.7	12165.7
15°	15615.1	15686.6	15792.3	16058.1	16744.0	17907.1	18610.1	18507.2	17698.5	15366.5	12480.1
17.5°	15426.5	15497.9	15532.2	15695.1	16183.8	17375.5	18933.0	19115.9	18750.1	16183.8	12797.3
20°	15615.1	15649.4	15649.4	15746.6	16129.5	17064.0	18918.8	19287.4	19613.2	17164.1	13094.5
22.5°	16109.5	16123.8	16103.8	16138.1	16423.9	17149.8	18784.4	19241.7	20310.5	17995.7	13326.0
25°	16912.6	16935.4	16804.0	16723.9	16932.6	17527.0	18858.7	19278.8	20856.4	18790.1	13480.3
27.5°	17824.2	17852.8	17692.7	17507.0	17604.2	17992.8	19150.2	19527.5	21265.0	19573.2	13577.5
30°	18941.6	18953.0	18684.4	18461.5	18398.6	18687.3	19647.5	19999.0	21773.7	20496.3	13723.2
32.5°	20084.7	20170.5	19824.7	19510.3	19404.6	19493.2	20382.0	20722.0	22379.6	21487.9	13957.6
35°	21639.4	21653.7	21239.3	20856.4	20507.7	20622.0	21322.2	21567.9	23216.9	22633.9	14289.1
37.5°	23579.9	23711.3	23139.7	22425.3	21996.6	21830.9	22459.6	22728.2	24391.5	24040.0	14789.2
40°	25734.6	25783.2	25294.5	24848.7	24065.7	23585.6	24020.0	24311.5	25840.4	25717.5	15369.3
42.5°	27089.3	27195.0	27232.1	27186.4	26597.7	25791.8	25957.6	26094.7	27555.1	27292.2	15963.8
45°	27546.5	27703.7	28235.2	29361.2	29424.1	28629.6	28243.8	28375.3	29424.1	28881.1	16532.5
47.5°	26789.2	27057.8	28038.0	30347.2	32076.1	32136.2	30973.0	30684.4	31127.3	30198.6	16944.0
50°	24831.6	24888.7	26389.1	29732.7	33319.3	35488.4	34285.2	33748.0	32744.9	31173.1	17226.9
52.5°	21802.3	21868.0	23125.5	26877.8	32553.4	37831.8	38160.4	37200.2	34388.1	31930.4	17412.7
55°	16183.8	16563.9	17947.1	21573.7	28924.0	37611.7	41241.2	40695.3	36374.3	32530.5	17704.2
57.5°	9950.9	9602.3	11242.7	14677.8	21753.7	34588.2	42192.8	42370.0	38560.5	33033.5	18192.9
60°	4578.2	4646.8	5324.1	7570.4	13260.3	27057.8	39740.8	40861.1	39769.4	33016.4	18315.8
62.5°	3155.0	3092.2	2920.7	3323.6	6047.1	17112.6	33567.9	35465.5	37346.0	31990.4	17827.1
65°	2820.7	2757.8	2426.3	2314.8	2777.8	7458.9	24402.9	26797.8	31444.6	29401.2	16609.6
67.5°	2634.9	2549.2	2206.2	1989.0	1983.3	2969.3	14389.1	17272.6	23322.6	24857.3	14392.0
70°	2440.6	2372.0	2031.9	1791.9	1689.0	1866.2	6324.3	8279.1	15143.6	17912.8	11211.2
72.5°	2246.2	2166.2	1860.4	1603.2	1468.9	1397.5	2423.4	3152.2	8556.3	10739.7	6873.1
75°	1963.3	1923.3	1663.2	1451.8	1306.0	1128.8	1537.5	1754.7	4092.4	4932.6	3449.4
77.5°	1717.5	1674.7	1477.5	1268.9	1163.1	917.4	1091.7	1191.7	1726.1	2000.5	1557.5
80°	1257.4	1300.3	1246.0	1120.3	1037.4	720.2	734.5	817.3	1026.0	1134.6	951.7
82.5°	797.3	877.3	960.2	863.1	785.9	568.7	508.7	540.1	700.2	743.0	423.0
85°	334.4	340.1	557.3	525.8	448.7	337.2	305.8	322.9	374.4	391.5	197.2
87.5°	128.6	125.7	197.2	182.9	140.0	97.2	97.2	108.6	148.6	137.2	62.9
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°	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3	10968.3
2.5°	11005.5	10802.5	10399.6	9899.5	9533.7	9122.2	8759.2	8499.1	8402.0	8356.3	8270.5
5°	10996.9	10596.8	9762.3	8887.8	8184.8	7464.6	6855.9	6461.5	6427.2	6164.3	6138.6
7.5°	10999.7	10388.2	9059.3	7773.3	6701.6	5964.3	5461.3	5329.8	5172.6	5132.6	5152.6
10°	11008.3	10122.4	8304.8	6670.1	5632.8	5149.8	4961.2	4909.7	4915.4	4932.6	4935.5
12.5°	11019.7	9865.2	7521.8	5832.8	5032.6	4832.6	4812.6	4858.3	4906.9	4944.0	4952.6
15°	11034.0	9570.8	6758.7	5158.4	4732.5	4715.4	4781.1	4858.3	4926.9	4981.2	4989.7
17.5°	11016.9	9227.9	6118.6	4744.0	4566.8	4649.7	4758.3	4855.4	4918.3	4969.7	4975.5
20°	10976.9	8844.9	5501.3	4452.5	4463.9	4598.2	4715.4	4806.8	4875.4	4901.2	4921.2
22.5°	10822.6	8387.7	4964.0	4226.7	4341.0	4526.8	4666.8	4721.1	4644.0	4589.7	4603.9
25°	10559.6	7793.3	4463.9	4043.8	4229.6	4426.8	4569.7	4438.2	4375.3	4352.5	4363.9
27.5°	10231.0	7141.7	4086.7	3852.3	4086.7	4315.3	4275.3	4252.4	4223.9	4186.7	4195.3
30°	9876.6	6504.4	3766.6	3703.7	3932.4	4063.8	4081.0	4118.1	4086.7	4029.5	4052.4
32.5°	9548.0	5904.3	3523.7	3578.0	3823.8	3803.8	3932.4	3975.2	3829.5	3638.0	3646.6
35°	9267.9	5347.0	3340.8	3455.1	3638.0	3646.6	3775.2	3626.6	3469.4	3377.9	3383.7
37.5°	9056.4	4912.6	3220.8	3349.4	3400.8	3509.4	3440.8	3363.7	3343.6	3280.8	3283.6
40°	8930.7	4532.5	3143.6	3266.5	3257.9	3332.2	3112.2	3189.3	3217.9	3197.9	3200.8
42.5°	8804.9	4263.9	3063.6	3152.2	3149.3	3003.6	2955.0	3020.7	3095.0	3103.6	3097.9
45°	8704.9	4055.2	2980.7	2977.8	3035.0	2806.4	2792.1	2832.1	2937.8	2989.3	2986.4
47.5°	8593.5	3880.9	2855.0	2774.9	2792.1	2683.5	2660.6	2677.8	2806.4	2889.3	2912.1
50°	8453.4	3706.6	2697.8	2589.2	2517.7	2569.2	2574.9	2577.8	2706.4	2800.7	2820.7
52.5°	8342.0	3575.1	2517.7	2437.7	2352.0	2466.3	2509.2	2514.9	2592.0	2669.2	2683.5
55°	8407.7	3500.8	2340.6	2283.4	2206.2	2360.6	2443.4	2454.9	2472.0	2529.2	2537.7
57.5°	8604.9	3518.0	2197.7	2123.4	2066.2	2234.8	2374.8	2383.4	2372.0	2440.6	2452.0
60°	8664.9	3509.4	2091.9	1946.2	1911.9	2100.5	2274.8	2292.0	2289.1	2389.1	2409.1
62.5°	8413.4	3400.8	1986.2	1797.6	1774.7	1963.3	2134.8	2203.4	2217.7	2360.6	2386.3
65°	7821.8	3177.9	1846.2	1640.4	1640.4	1817.6	2000.5	2094.8	2134.8	2326.3	2354.8
67.5°	7041.7	2915.0	1703.3	1506.1	1500.4	1677.5	1857.6	1954.7	2017.6	2277.7	2294.8
70°	5844.2	2560.6	1526.1	1360.3	1360.3	1520.4	1683.3	1800.4	1891.9	2186.2	2186.2
72.5°	4003.8	2129.1	1311.7	1194.6	1197.4	1346.0	1511.8	1643.2	1751.8	2003.3	2009.0
75°	2532.0	1663.2	1077.4	1017.4	1028.8	1168.8	1340.3	1477.5	1694.7	1980.5	1989.0
77.5°	1346.0	1168.8	857.3	843.1	857.3	985.9	1177.4	1366.0	1700.4	1717.5	1689.0
80°	871.6	828.8	677.3	648.7	654.4	794.5	1048.8	1297.4	1366.0	1383.2	1320.3
82.5°	474.4	525.8	480.1	451.5	451.5	620.1	894.5	1031.7	980.2	814.5	777.3
85°	202.9	245.8	248.6	217.2	208.6	382.9	600.1	563.0	523.0	500.1	494.4
87.5°	57.2	80.0	80.0	60.0	45.7	105.7	120.0	34.3	0.0	2.9	5.7
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)