

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: P454402

Luminaire Tested: **GALN-SA5C-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32006 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

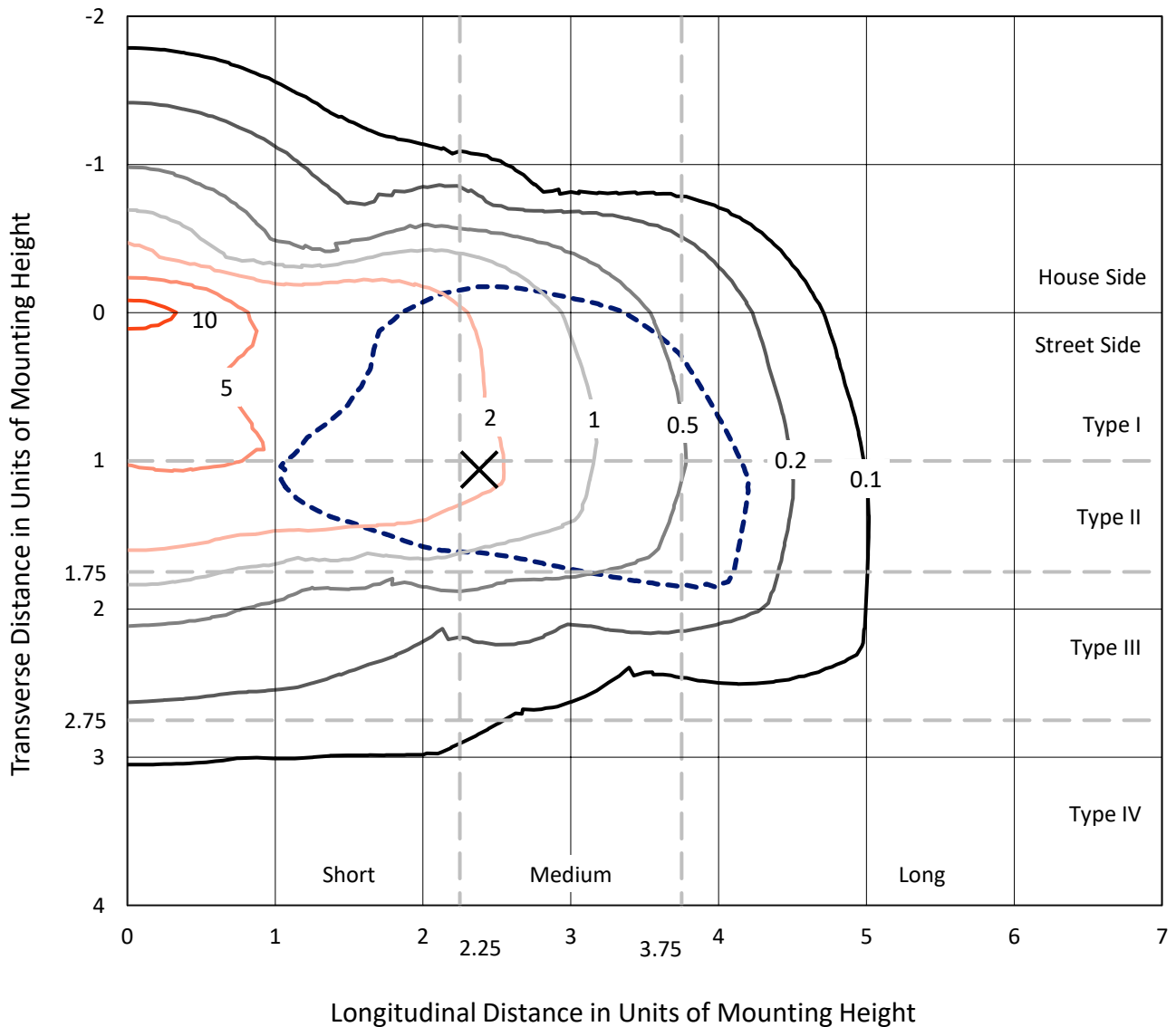
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

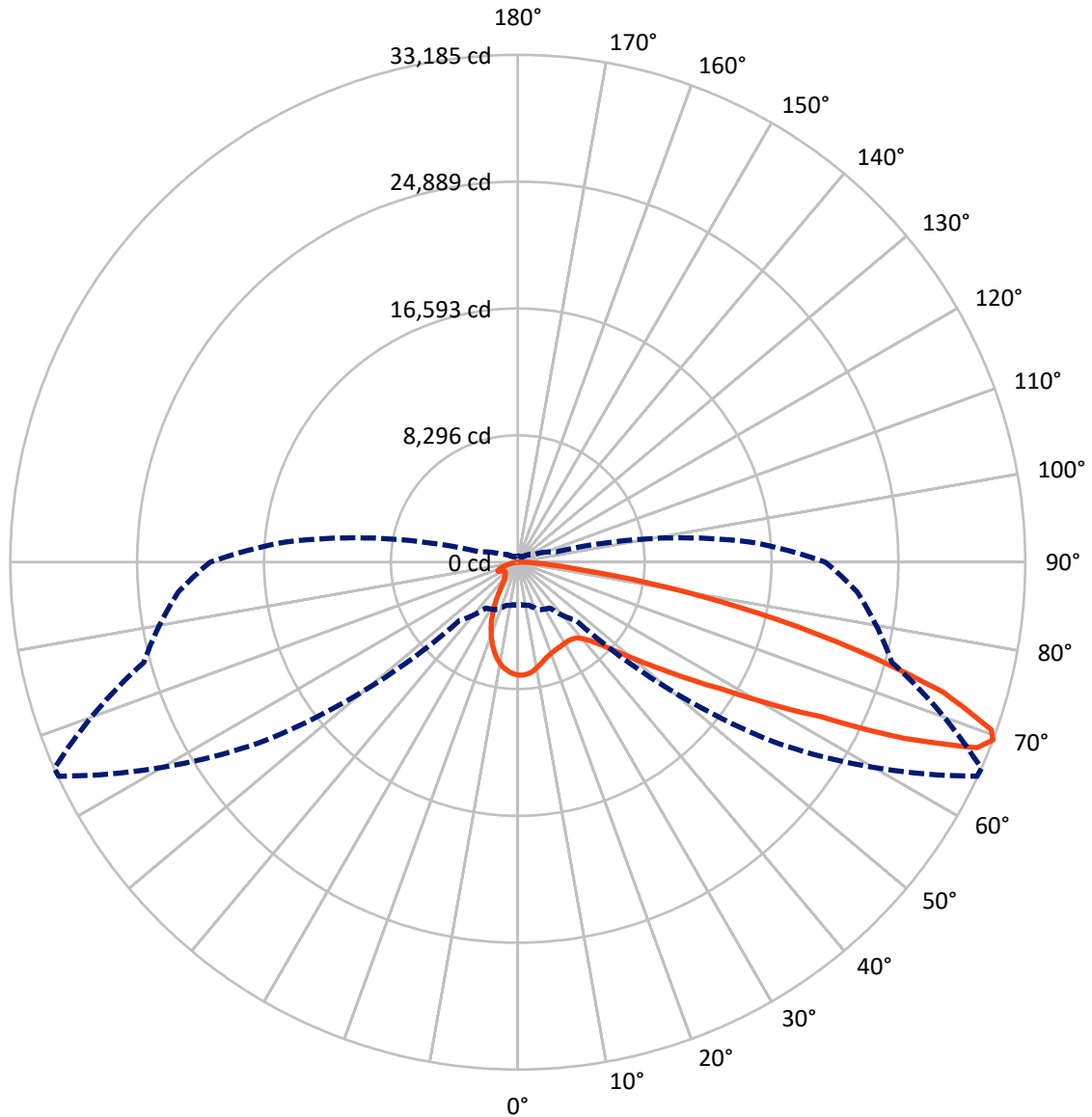
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6019.1	0.0	6019.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25986.9	0.0	25986.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32006.0	0.0	32006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.8	2.0
10°-20°	1522.4	4.8
20°-30°	2072.5	6.5
30°-40°	2785.0	8.7
40°-50°	4158.5	13.0
50°-60°	6614.8	20.7
60°-70°	8135.8	25.4
70°-80°	5293.5	16.5
80°-90°	781.7	2.4
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°	32006.0	100.0
0°-180°	32006.0	100.0

**Coefficient of Utilization**



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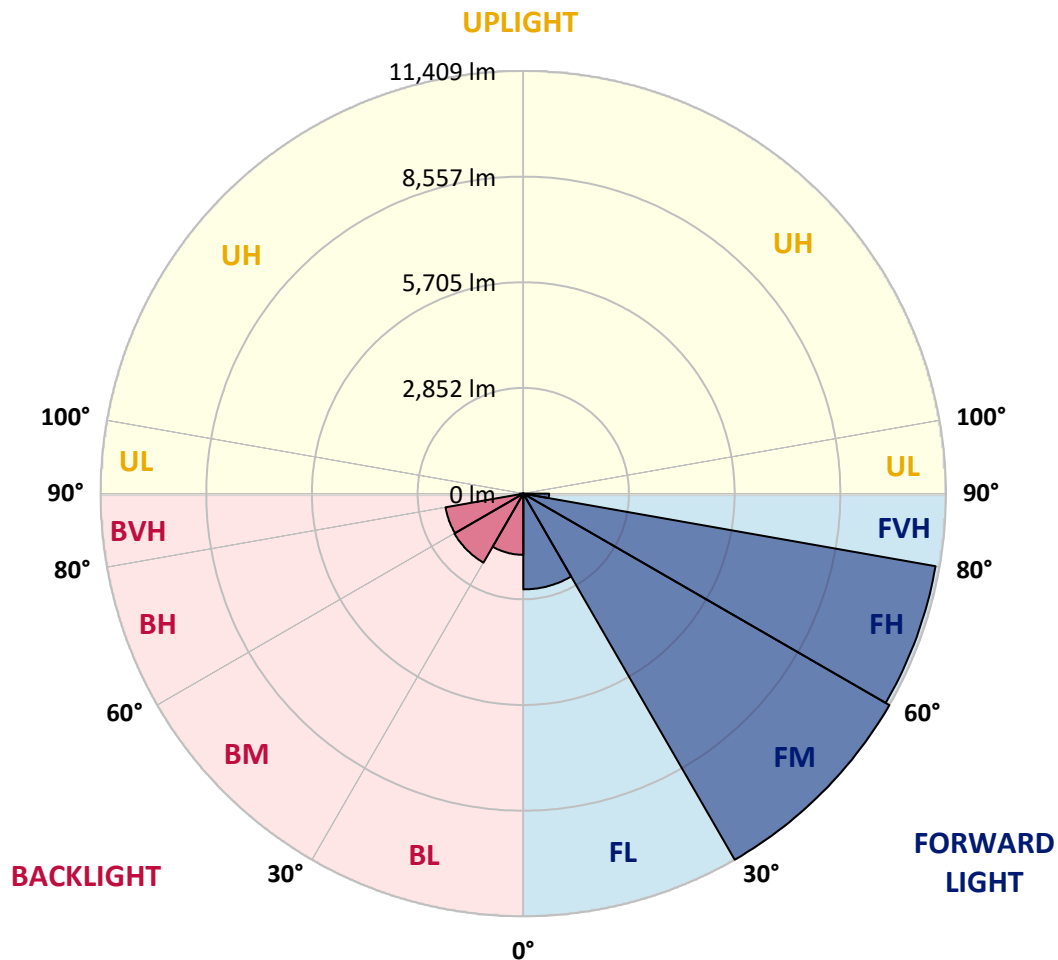
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2584.4	8.1			
FM	(30°-60°)	11409.2	35.6			
FH	(60°-80°)	11298.3	35.3			G4/12000
FVH	(80°-90°)	695.0	2.2			G4/750
BL	(0°-30°)	1652.3	5.2	B3/2500		
BM	(30°-60°)	2149.1	6.7	B2/2500		
BH	(60°-80°)	2131.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	86.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1
2.5°	7132.3	7160.7	7192.6	7228.0	7295.4	7332.6	7359.2	7389.3	7392.8	7408.8	7396.4
5°	6605.9	6639.6	6687.4	6754.8	6855.8	7013.5	7176.6	7309.5	7325.5	7399.9	7421.2
7.5°	6166.3	6185.8	6224.8	6332.9	6476.5	6652.0	6889.5	7158.9	7197.9	7375.1	7437.2
10°	5808.3	5827.8	5873.9	5985.5	6127.3	6347.1	6607.7	6962.1	6994.0	7298.9	7440.7
12.5°	5540.6	5558.4	5608.0	5717.9	5881.0	6086.6	6373.7	6749.5	6795.5	7197.9	7407.0
15°	5336.8	5370.5	5411.3	5501.7	5673.6	5872.1	6150.4	6554.5	6591.7	7091.5	7384.0
17.5°	5250.0	5265.9	5294.3	5377.6	5503.4	5698.4	5978.4	6402.1	6446.4	7017.1	7378.7
20°	5253.5	5269.5	5274.8	5320.9	5411.3	5579.6	5856.1	6281.5	6334.7	6951.5	7387.5
22.5°	5374.0	5375.8	5356.3	5340.4	5375.8	5515.8	5769.3	6191.1	6253.2	6923.2	7394.6
25°	5560.1	5592.0	5563.7	5489.2	5423.7	5491.0	5735.6	6141.5	6200.0	6882.4	7385.8
27.5°	5861.5	5866.8	5843.7	5742.7	5572.6	5522.9	5721.4	6104.3	6153.9	6852.3	7341.4
30°	6265.6	6249.6	6228.4	6116.7	5849.1	5645.2	5751.6	6070.6	6122.0	6807.9	7288.3
32.5°	6675.0	6724.6	6705.1	6574.0	6226.6	5882.7	5849.1	6067.1	6109.6	6774.3	7229.8
35°	7109.3	7132.3	7224.5	7157.1	6800.9	6267.3	6031.6	6122.0	6155.7	6776.0	7189.0
37.5°	7449.6	7511.6	7727.8	7786.3	7451.3	6776.0	6327.6	6278.0	6292.2	6862.9	7205.0
40°	7860.8	7967.1	8245.4	8484.7	8264.9	7437.2	6831.0	6566.9	6584.6	7072.0	7309.5
42.5°	8381.9	8456.3	8830.3	9154.7	9119.2	8311.0	7440.7	7040.1	7049.0	7488.6	7602.0
45°	8991.6	9097.9	9518.0	10005.4	10088.7	9300.0	8321.6	7756.2	7750.9	8135.5	8147.9
47.5°	9771.5	9837.0	10253.6	10785.3	11122.1	10542.5	9390.4	8784.2	8727.5	9078.4	8977.4
50°	10489.3	10592.1	10907.6	11489.0	12327.3	11997.6	10795.9	10117.1	9984.2	10312.1	10141.9
52.5°	10790.6	10898.7	11164.6	11886.0	13360.7	13880.0	12580.8	11707.0	11485.4	11737.1	11675.1
55°	10267.7	10407.8	10655.9	11533.3	13814.4	16051.2	14987.8	13545.0	13383.7	13275.6	13293.3
57.5°	8862.2	8995.1	9330.1	10297.9	13272.0	17626.9	18424.5	15907.6	15562.0	15064.0	15149.0
60°	6745.9	6829.2	7002.9	8075.2	11664.4	18036.3	22327.4	18894.2	18674.4	16845.3	16905.5
62.5°	4790.9	4884.8	5005.4	5540.6	8539.6	16882.5	25383.1	23064.8	22279.6	18690.4	18631.9
65°	3890.5	3826.7	3972.0	4222.0	5010.7	13084.2	26070.8	28853.6	27772.4	21120.4	20308.6
67.5°	3199.3	3131.9	3275.5	3720.4	3810.7	7594.9	23592.9	32611.1	32394.9	23763.1	22011.9
69°	2832.4	2796.9	2922.8	3429.7	3658.3	5393.5	20553.2	33134.0	33185.4	25321.1	22274.3
70°	2552.3	2566.5	2688.8	3282.6	3589.2	4447.1	17566.7	32412.6	32848.6	26099.2	21990.7
72.5°	1878.8	1908.9	2079.1	2718.9	3523.6	3773.5	10453.9	28311.2	29082.2	26145.3	20117.2
75°	1313.4	1299.2	1449.9	2047.2	3328.6	3739.8	6139.7	21895.0	22768.8	22598.6	16903.8
77.5°	859.6	882.7	1003.2	1446.3	2800.5	3711.5	4002.2	15533.7	16100.8	15113.6	9998.3
80°	606.2	604.4	671.8	987.2	2077.3	3566.1	3277.2	9791.0	9647.4	5939.4	2965.3
82.5°	347.4	372.2	450.2	694.8	1389.6	3139.0	3014.9	4682.8	4275.1	1692.7	1001.4
85°	193.2	202.1	267.6	420.1	811.8	2364.4	2632.1	2130.5	2009.9	707.2	430.7
87.5°	62.0	67.4	111.7	212.7	368.7	1116.6	1490.6	983.7	907.5	255.2	173.7
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°	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1	7391.1
2.5°	7401.7	7423.0	7366.3	7311.3	7261.7	7192.6	7130.5	7079.1	7043.7	7038.4	7020.6
5°	7426.5	7428.3	7320.2	7174.8	7033.0	6877.1	6715.8	6600.6	6492.4	6432.2	6402.1
7.5°	7444.2	7428.3	7233.3	6997.6	6724.6	6441.0	6157.5	5930.6	5755.1	5686.0	5712.6
10°	7437.2	7387.5	7102.2	6724.6	6327.6	5904.0	5496.3	5177.3	4884.8	4734.2	4737.7
12.5°	7398.2	7316.6	6907.2	6418.0	5834.9	5267.7	4643.8	4213.1	3874.6	3674.3	3612.2
15°	7364.5	7222.7	6678.6	6001.5	5276.6	4466.5	3706.2	3174.4	2890.8	2733.1	2731.3
17.5°	7329.0	7132.3	6428.6	5560.1	4634.9	3592.7	2795.1	2389.2	2256.3	2272.3	2245.7
20°	7291.8	7026.0	6168.1	5069.2	3853.3	2679.9	2093.3	1928.4	1965.6	2038.3	2048.9
22.5°	7249.3	6912.5	5888.0	4528.6	3030.9	2017.0	1698.0	1673.2	1768.9	1882.3	1898.3
25°	7183.7	6770.7	5535.3	3963.2	2337.8	1625.3	1487.1	1504.8	1598.7	1694.5	1705.1
27.5°	7091.5	6595.2	5179.1	3257.7	1756.5	1394.9	1359.5	1382.5	1428.6	1487.1	1501.3
30°	6967.5	6396.7	4769.6	2648.0	1407.3	1279.7	1265.5	1277.9	1304.5	1329.3	1336.4
32.5°	6843.4	6205.3	4356.7	2027.7	1254.9	1203.5	1189.3	1189.3	1189.3	1192.9	1194.6
35°	6728.2	6024.5	3913.5	1579.2	1175.1	1143.2	1123.7	1102.5	1098.9	1086.5	1086.5
37.5°	6664.4	5859.7	3442.1	1322.2	1116.6	1093.6	1067.0	1031.6	1012.1	1013.8	1010.3
40°	6676.8	5751.6	3013.1	1176.9	1068.8	1044.0	1003.2	962.4	950.0	950.0	946.5
42.5°	6816.8	5716.1	2601.9	1100.7	1022.7	994.3	942.9	905.7	898.6	896.9	900.4
45°	7139.4	5803.0	2233.3	1051.1	983.7	941.2	889.8	856.1	849.0	849.0	847.2
47.5°	7768.6	6084.8	1969.2	1019.2	955.3	900.4	847.2	813.5	801.1	797.6	797.6
50°	8747.0	6696.3	1772.4	990.8	919.9	863.2	808.2	769.2	749.7	748.0	746.2
52.5°	10106.5	7649.9	1696.2	969.5	880.9	824.2	763.9	726.7	701.9	696.6	693.0
55°	11696.3	8981.0	1800.8	953.6	840.1	779.9	717.8	678.8	655.8	645.2	643.4
57.5°	13537.9	10579.7	2197.8	932.3	802.9	732.0	671.8	632.8	607.9	595.5	592.0
60°	15191.6	12222.7	2890.8	919.9	771.0	680.6	618.6	583.1	560.1	547.7	545.9
62.5°	17008.3	13789.6	3718.6	953.6	756.8	631.0	569.0	537.0	517.6	505.1	505.1
65°	18949.2	15358.2	4266.3	1067.0	778.1	592.0	515.8	489.2	471.5	462.6	460.8
67.5°	20257.2	15900.6	3514.7	1184.0	831.3	549.5	464.4	443.1	432.5	423.6	423.6
69°	20115.4	15214.6	2593.1	1214.1	847.2	528.2	436.0	420.1	405.9	402.3	398.8
70°	19667.0	14433.0	2173.0	1194.6	834.8	508.7	418.3	398.8	386.4	382.8	381.1
72.5°	17517.0	12517.0	1618.2	1038.6	710.7	441.3	370.4	352.7	342.1	336.8	336.8
75°	14553.5	10230.5	1263.7	826.0	556.5	372.2	317.3	303.1	294.2	290.7	288.9
77.5°	8156.8	5712.6	907.5	646.9	421.8	301.3	265.9	253.5	244.6	241.1	241.1
80°	2272.3	1632.4	533.5	427.2	287.1	228.6	210.9	202.1	189.7	180.8	186.1
82.5°	856.1	707.2	304.9	257.0	182.6	152.4	147.1	140.0	134.7	122.3	122.3
85°	416.5	343.9	195.0	136.5	101.0	79.8	76.2	72.7	69.1	60.3	62.0
87.5°	143.6	152.4	85.1	49.6	30.1	19.5	16.0	8.9	8.9	8.9	8.9
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)