

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: P533116

Luminaire Tested: **GALN-SA8C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47721 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

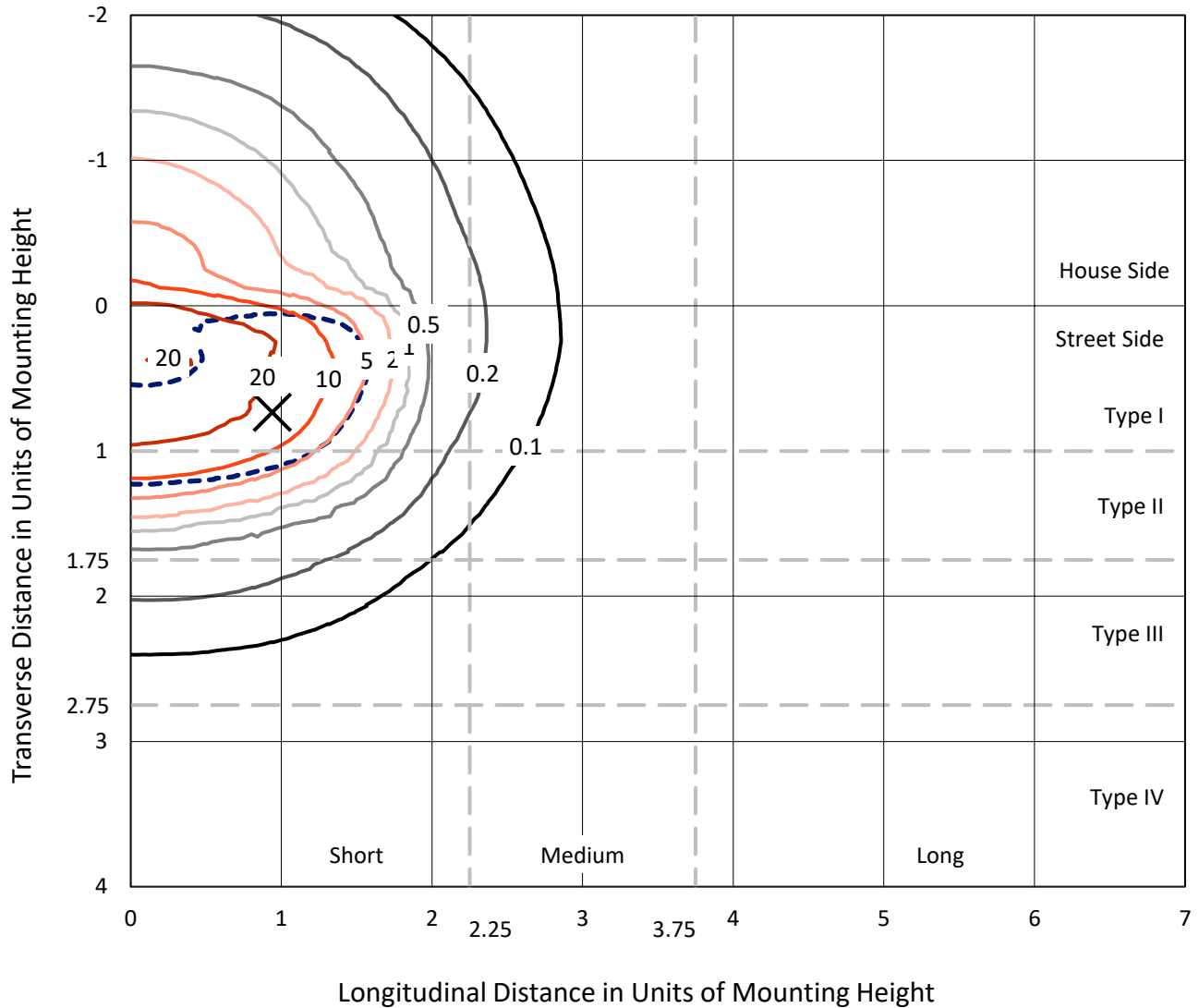
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

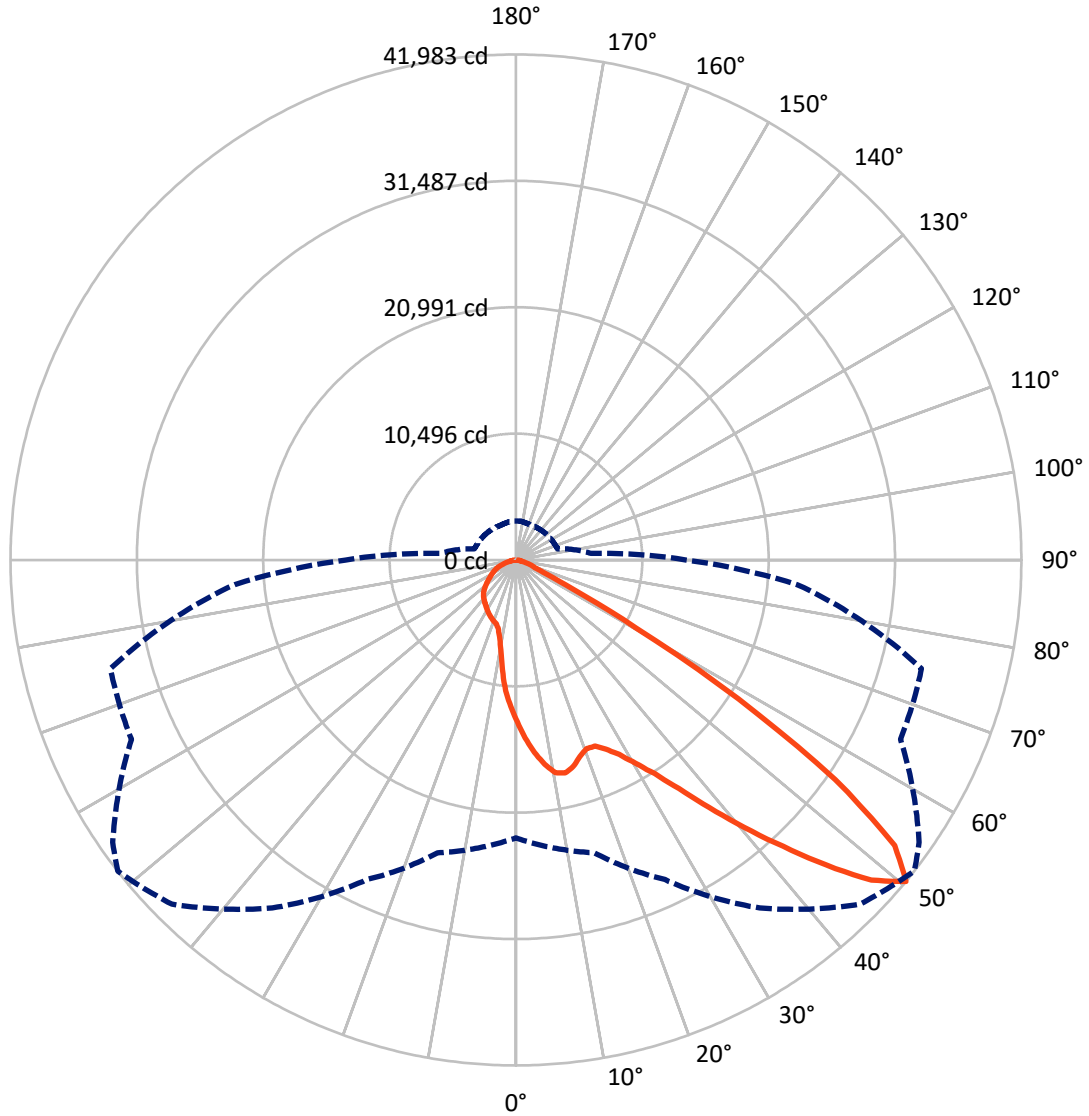
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8970.4	0.0	8970.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	38750.6	0.0	38750.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	47721.0	0.0	47721.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1239.8	2.6
10°-20°	3323.1	7.0
20°-30°	5597.6	11.7
30°-40°	9393.3	19.7
40°-50°	14369.4	30.1
50°-60°	10476.4	22.0
60°-70°	2331.5	4.9
70°-80°	841.0	1.8
80°-90°	148.9	0.3
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°	47721.0	100.0
0°-180°	47721.0	100.0

**Coefficient of Utilization**



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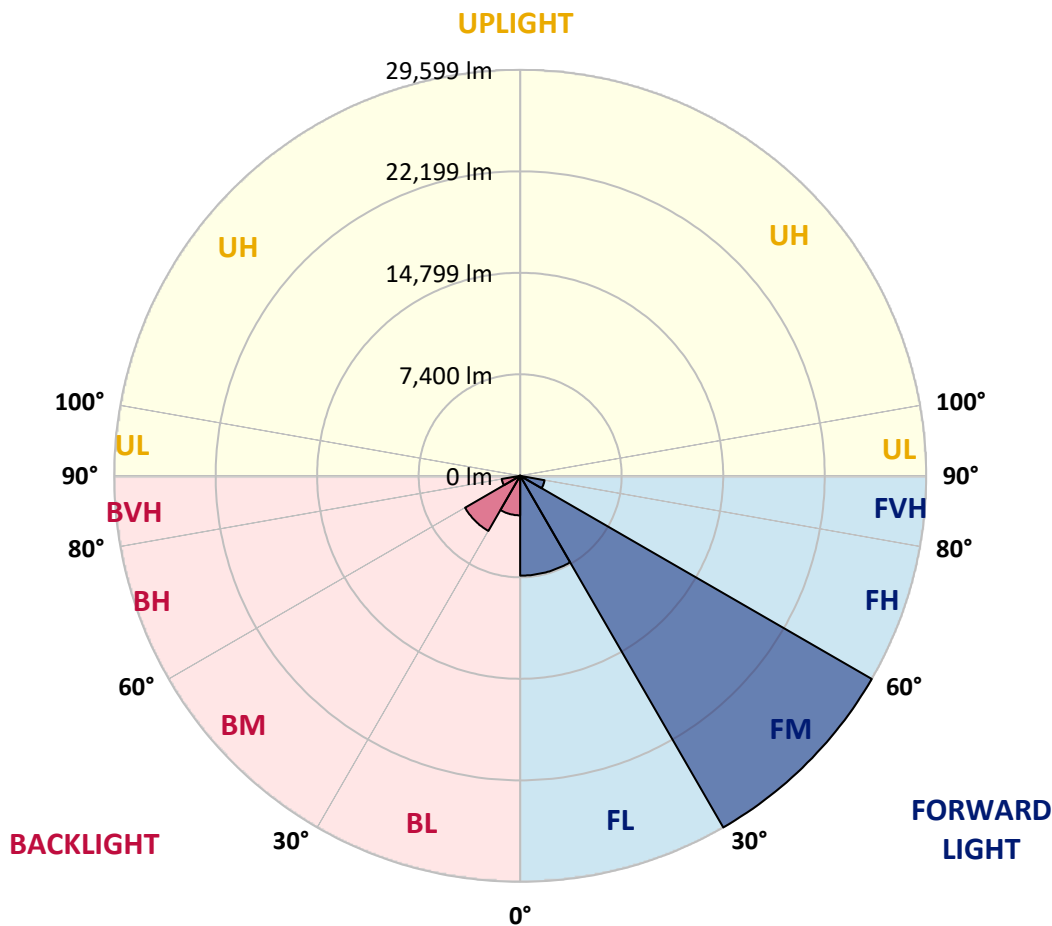
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7279.1	15.3			
FM (30°-60°)	29599.0	62.0			
FH (60°-80°)	1805.8	3.8			G2/5000
FVH (80°-90°)	66.7	0.1			G1/100
BL (0°-30°)	2881.5	6.0	B4/5000		
BM (30°-60°)	4640.1	9.7	B3/5000		
BH (60°-80°)	1366.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	82.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8
2.5°	15838.5	15533.6	15568.2	15349.6	15113.8	15044.8	14803.3	14573.2	14400.7	14032.6	13693.3
5°	17310.7	17218.7	17080.7	16908.2	16729.9	16292.8	16045.5	15757.9	15125.3	14556.0	13992.4
7.5°	17523.5	17506.3	17581.0	17581.0	17644.3	17477.5	17126.7	16925.4	16252.5	15326.6	14279.9
10°	16028.2	16080.0	16442.3	16913.9	17569.5	18023.9	17966.4	17914.6	17178.5	15913.2	14619.2
12.5°	14837.8	14722.7	14935.5	15338.1	16321.5	17420.0	18161.9	18167.6	17977.9	16850.6	14866.5
15°	14164.9	14245.4	14302.9	14492.7	15234.6	16505.6	17811.1	18196.4	19030.3	17512.0	15257.6
17.5°	14596.2	14325.9	14314.4	14360.4	14740.0	15694.7	17161.2	17822.6	19605.4	18363.2	15740.7
20°	15159.8	15154.1	14993.0	14935.5	14929.8	15780.9	16735.6	17632.8	19910.2	19467.4	16229.5
22.5°	16149.0	16149.0	15884.5	15757.9	15487.6	16183.5	16793.1	17402.7	20416.3	20226.5	16465.3
25°	17805.3	17535.0	17080.7	16770.1	16614.8	16862.1	17402.7	17949.1	20859.1	21031.7	16954.2
27.5°	19335.1	18909.5	18685.2	18150.4	17943.3	17799.6	18294.2	18846.3	21376.7	22285.4	17218.7
30°	21071.9	20997.2	20594.6	19904.5	19392.6	19128.1	19582.4	20128.8	22325.7	23567.9	17828.3
32.5°	24177.5	23498.9	22952.5	22107.1	21273.2	20709.6	21158.2	21520.5	23901.5	24907.9	18495.4
35°	27530.4	27311.8	26368.7	24844.6	23567.9	23061.8	23326.4	23596.7	25736.0	26955.3	19616.9
37.5°	30825.7	30526.7	29750.3	28467.8	26915.0	25885.6	26075.4	26391.7	27794.9	29715.8	20985.7
40°	33195.2	32827.1	32436.0	32246.3	30705.0	29296.0	29186.7	29267.2	30578.5	32303.8	22503.9
42.5°	33367.7	33822.1	33942.8	34707.7	34345.4	33189.4	32516.6	32533.8	33235.4	34863.0	24039.5
45°	33005.4	32585.6	33477.0	35564.6	36760.9	37301.5	36168.5	36024.7	34880.3	36346.8	24804.4
47.5°	29203.9	29319.0	30825.7	34126.9	37583.3	39998.7	39734.2	39256.8	35760.2	36295.0	24683.6
50°	23084.8	23780.7	25178.2	29290.2	35282.8	40424.3	41982.8	40878.6	35236.8	34868.8	23452.9
52.5°	15372.6	15660.2	16580.3	21888.6	28370.0	36134.0	39394.8	39647.9	34753.7	32999.7	21894.3
55°	6843.8	6820.8	8114.8	11433.1	17799.6	27495.9	32188.8	33730.0	32896.1	31096.0	20376.1
57.5°	2898.5	2996.3	3525.4	4940.2	8753.1	16591.8	21808.1	23159.6	25299.0	25534.8	15631.4
60°	1961.1	1972.6	2116.4	2473.0	3663.4	7792.7	11438.9	13060.7	14590.5	14487.0	8293.0
62.5°	1541.3	1581.5	1690.8	1834.6	2173.9	3536.9	5118.5	6021.4	6119.1	5147.2	3145.8
65°	1317.0	1322.7	1432.0	1552.8	1702.3	2058.9	2467.2	2513.2	2542.0	2450.0	2311.9
67.5°	1087.0	1098.5	1184.7	1322.7	1460.8	1575.8	1690.8	1748.3	1880.6	2139.4	2104.9
70°	862.7	879.9	954.7	1069.7	1196.2	1265.2	1409.0	1460.8	1581.5	1782.8	1863.3
72.5°	655.6	661.4	724.6	805.2	920.2	989.2	1110.0	1167.5	1248.0	1420.5	1495.3
75°	471.6	488.8	534.8	575.1	592.4	638.4	753.4	816.7	931.7	1006.4	1012.2
77.5°	247.3	258.8	270.3	270.3	327.8	414.1	488.8	523.3	603.9	661.4	632.6
80°	97.8	103.5	132.3	178.3	230.0	299.1	350.8	368.1	437.1	471.6	488.8
82.5°	57.5	63.3	86.3	126.5	166.8	212.8	253.0	270.3	316.3	356.6	368.1
85°	28.8	34.5	51.8	80.5	109.3	132.3	126.5	120.8	120.8	115.0	120.8
87.5°	11.5	11.5	17.3	17.3	17.3	23.0	28.8	28.8	28.8	34.5	34.5
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°	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8	13451.8
2.5°	13469.0	13239.0	13026.2	12635.1	12209.5	12088.8	11594.2	11415.9	11289.4	11139.8	11093.8
5°	13538.0	13233.2	12548.8	11760.9	11134.1	10328.9	9799.8	9230.5	8816.4	8712.9	8684.1
7.5°	13681.8	13158.5	11979.5	10789.0	9506.5	8413.8	7579.9	7131.3	6734.5	6711.5	6671.2
10°	13842.8	12934.2	11358.4	9489.3	7850.2	6838.0	6337.7	6142.1	6044.4	6021.4	6009.9
12.5°	13975.1	12888.2	10662.5	8224.0	6677.0	6067.4	5917.9	5900.6	5940.9	5952.4	5975.4
15°	14032.6	12704.1	9822.8	7091.1	5946.6	5722.3	5785.6	5854.6	5883.3	5958.1	5900.6
17.5°	14141.9	12468.3	8787.6	6193.9	5538.3	5578.5	5687.8	5768.3	5814.3	5866.1	5791.3
20°	14199.4	12255.5	7815.7	5659.1	5394.5	5469.3	5618.8	5682.1	5739.6	5762.6	5676.3
22.5°	14147.6	11818.5	6958.8	5227.7	5256.5	5354.2	5486.5	5555.5	5521.0	5429.0	5377.3
25°	14009.6	11203.1	6067.4	4951.7	5060.9	5233.5	5337.0	5285.2	5222.0	5170.2	5153.0
27.5°	14003.9	10449.7	5423.3	4698.6	4894.2	5130.0	5095.5	5049.4	5078.2	5037.9	4991.9
30°	14032.6	9719.3	4894.2	4554.8	4773.4	4888.4	4928.7	4882.7	4917.2	4842.4	4865.4
32.5°	13883.1	9006.2	4549.1	4388.1	4629.6	4623.9	4756.1	4790.6	4710.1	4554.8	4577.9
35°	13946.4	8431.1	4255.8	4313.3	4468.6	4468.6	4572.1	4531.8	4319.1	4227.0	4250.0
37.5°	14383.4	7867.5	4112.0	4209.8	4313.3	4359.3	4324.8	4152.3	4100.5	4100.5	4112.0
40°	14797.5	7384.4	4025.8	4186.8	4169.5	4198.3	3945.2	3962.5	3962.5	3968.2	3939.5
42.5°	15165.6	7056.6	3956.7	4048.8	4077.5	3928.0	3772.7	3755.5	3795.7	3790.0	3767.0
45°	15297.9	6786.3	3859.0	3893.5	3916.5	3669.2	3594.4	3559.9	3605.9	3623.2	3646.2
47.5°	14791.8	6562.0	3749.7	3680.7	3634.7	3473.6	3375.9	3312.6	3370.1	3467.9	3490.9
50°	14141.9	6268.7	3577.2	3444.9	3347.1	3278.1	3209.1	3145.8	3186.1	3255.1	3237.9
52.5°	13181.5	5808.6	3358.6	3220.6	3053.8	3071.1	3007.8	2973.3	2996.3	2996.3	2979.1
55°	11812.7	4773.4	2990.6	2892.8	2754.8	2800.8	2812.3	2766.3	2720.3	2760.5	2726.0
57.5°	8063.0	3370.1	2668.5	2668.5	2530.5	2593.7	2588.0	2478.7	2369.4	2380.9	2357.9
60°	4664.1	2685.8	2461.5	2438.5	2294.7	2346.4	2357.9	2283.2	2116.4	2127.9	2104.9
62.5°	2651.2	2294.7	2150.9	2116.4	2087.6	2133.6	2133.6	2035.9	1892.1	1903.6	1880.6
65°	2254.4	2127.9	1920.9	1915.1	1903.6	1915.1	1869.1	1765.6	1639.1	1587.3	1593.0
67.5°	2047.4	1966.9	1765.6	1713.8	1679.3	1673.6	1587.3	1489.5	1432.0	1386.0	1380.3
70°	1794.3	1731.1	1581.5	1512.5	1478.0	1397.5	1311.2	1248.0	1167.5	1144.5	1167.5
72.5°	1420.5	1414.8	1357.3	1282.5	1207.7	1144.5	1069.7	983.4	908.7	891.4	851.2
75°	983.4	994.9	1006.4	994.9	931.7	851.2	764.9	695.9	603.9	552.1	540.6
77.5°	644.1	661.4	678.6	655.6	615.4	540.6	483.1	396.8	327.8	287.6	281.8
80°	471.6	494.6	506.1	488.8	442.8	385.3	322.1	253.0	201.3	166.8	166.8
82.5°	362.3	385.3	396.8	368.1	322.1	276.1	230.0	178.3	138.0	109.3	103.5
85°	126.5	120.8	143.8	149.5	178.3	166.8	138.0	103.5	80.5	57.5	51.8
87.5°	34.5	34.5	40.3	40.3	34.5	28.8	28.8	28.8	23.0	17.3	17.3
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)