

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: P651035

Luminaire Tested: **GALN-SA7C-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41416.7 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

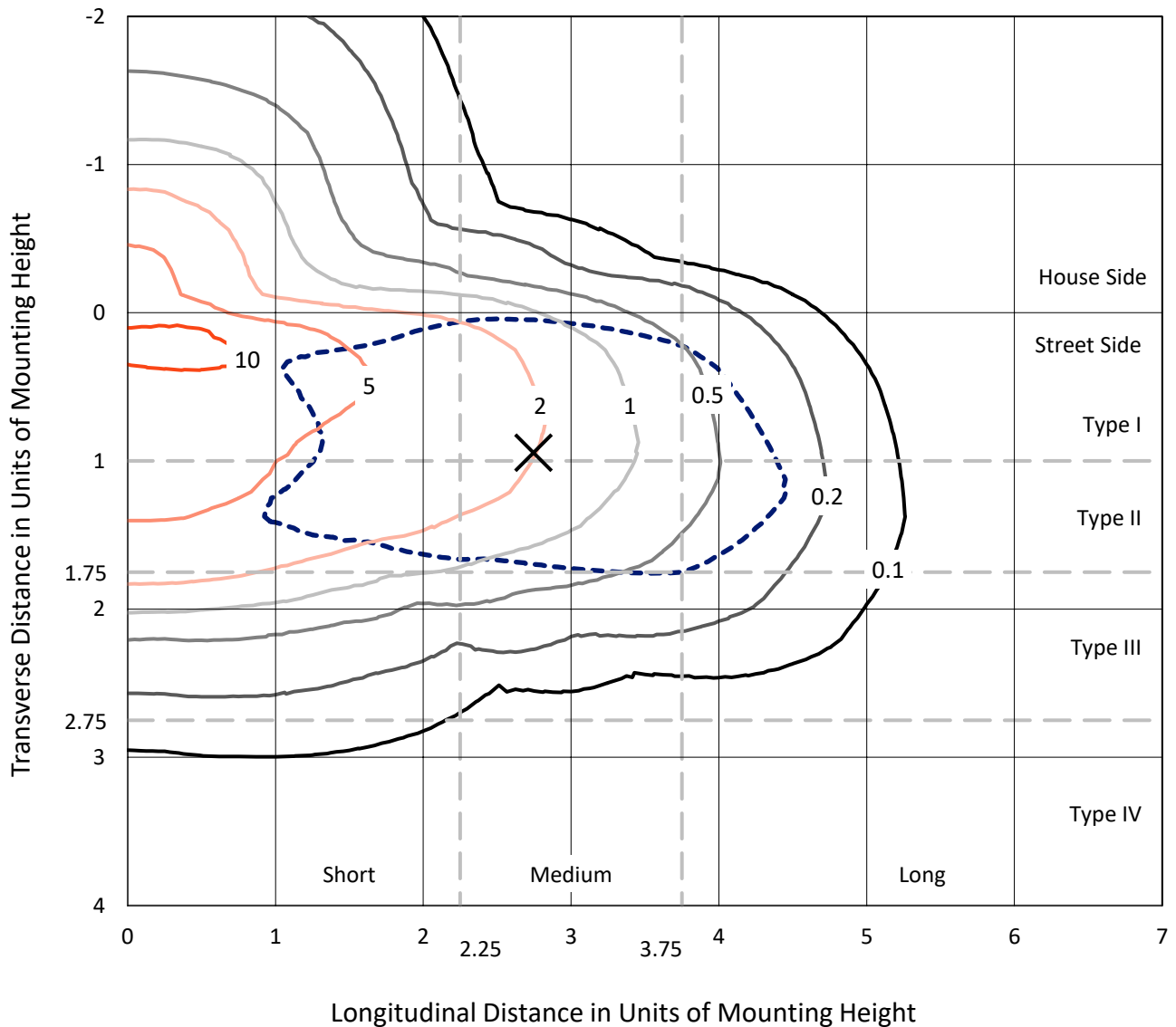
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

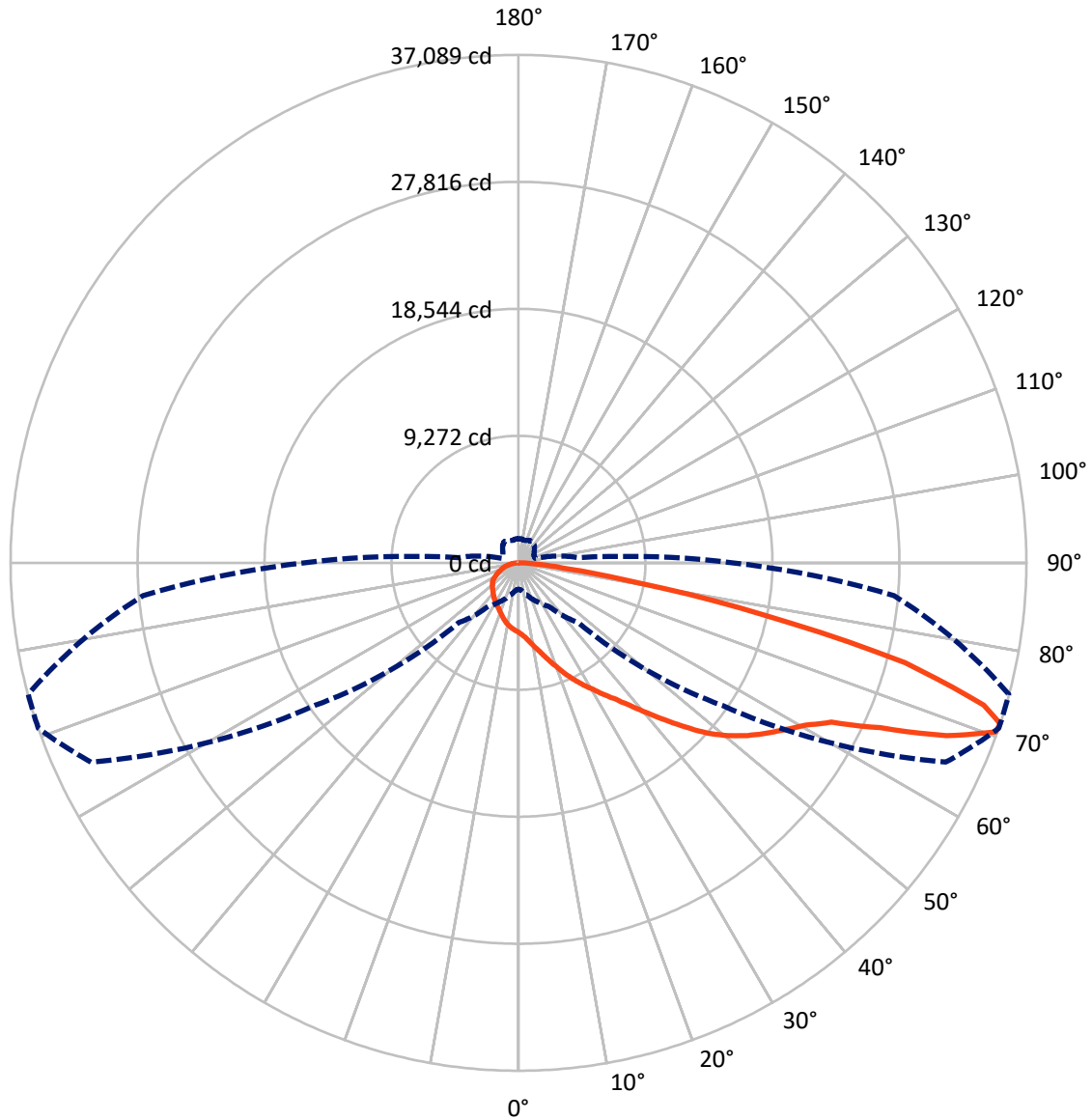
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7448.7	0.0	7448.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	33968.0	0.0	33968.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	41416.7	0.0	41416.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.4	1.2
10°-20°	1658.2	4.0
20°-30°	2897.8	7.0
30°-40°	4310.1	10.4
40°-50°	6350.4	15.3
50°-60°	8890.6	21.5
60°-70°	9943.8	24.0
70°-80°	6074.1	14.7
80°-90°	781.4	1.9
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°	41416.7	100.0
0°-180°	41416.7	100.0

**Coefficient of Utilization**

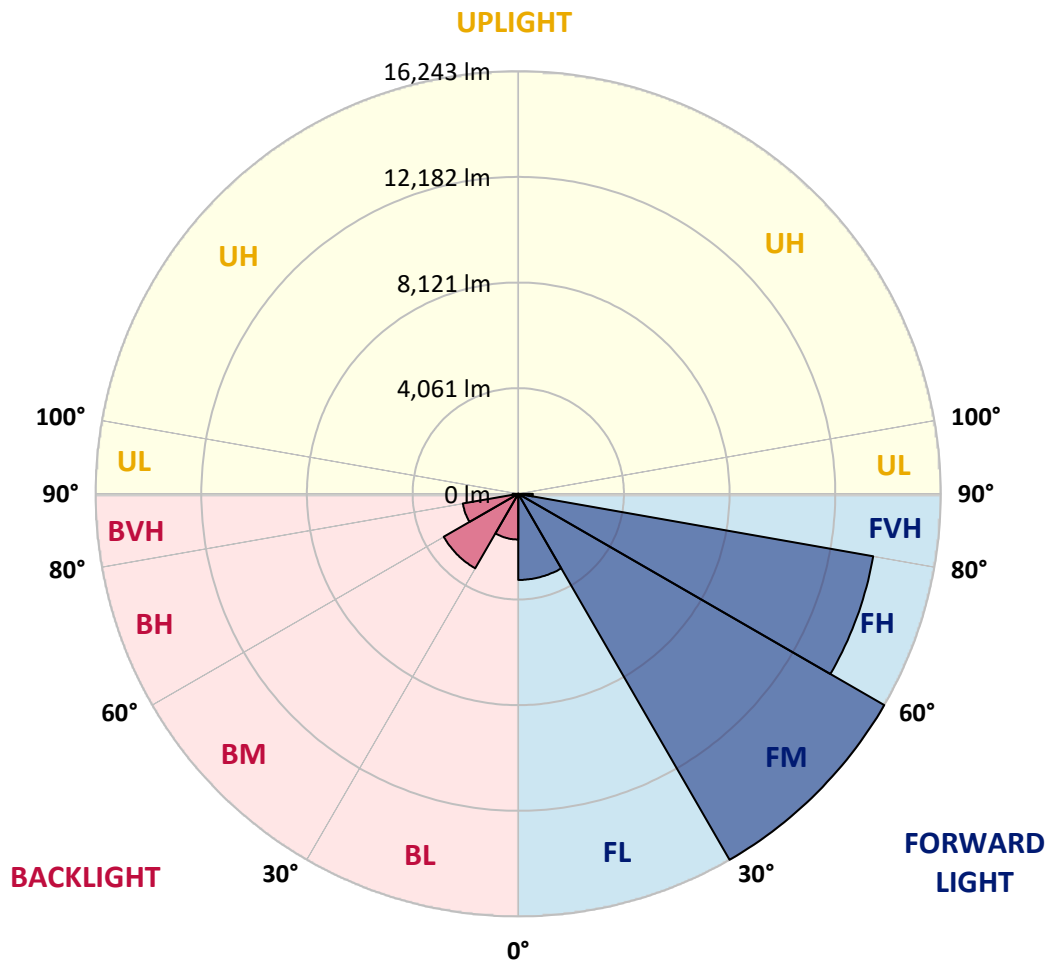


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3309.2	8.0			
FM (30°-60°)	16242.8	39.2			
FH (60°-80°)	13853.8	33.4			G5
FVH (80°-90°)	562.2	1.4			G4/750
BL (0°-30°)	1757.1	4.2	B3/2500		
BM (30°-60°)	3308.3	8.0	B3/5000		
BH (60°-80°)	2164.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	219.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1
2.5°	5643.1	5615.8	5618.0	5579.4	5529.2	5474.7	5397.2	5328.9	5274.3	5242.5	5149.1
5°	6253.2	6225.8	6191.7	6107.4	6071.0	5936.7	5766.0	5611.2	5492.8	5426.8	5240.2
7.5°	6747.1	6740.3	6731.2	6683.3	6590.0	6403.4	6257.7	5989.1	5813.8	5688.6	5369.9
10°	7052.1	7063.5	7070.4	7079.5	7040.8	6942.9	6742.5	6403.4	6180.3	6021.0	5538.3
12.5°	7206.9	7218.3	7257.0	7341.3	7393.6	7382.2	7218.3	6885.9	6578.6	6369.2	5718.2
15°	7302.5	7320.7	7389.0	7500.5	7675.8	7787.4	7707.7	7400.4	7063.5	6815.4	5932.2
17.5°	7407.3	7427.7	7502.8	7662.2	7892.1	8133.4	8219.9	7955.9	7589.4	7293.4	6171.2
20°	7466.4	7493.7	7600.7	7810.1	8078.7	8429.3	8716.1	8577.3	8176.6	7848.9	6446.6
22.5°	7562.0	7584.8	7675.8	7898.9	8219.9	8659.2	9212.4	9182.8	8830.0	8406.6	6749.4
25°	7821.6	7858.0	7903.5	8037.8	8347.3	8893.7	9624.4	9829.3	9462.8	8989.3	7027.1
27.5°	8310.9	8340.5	8338.3	8356.5	8531.8	9096.3	9981.8	10468.9	10091.1	9578.9	7295.7
30°	8868.7	8880.0	8889.1	8848.2	8886.8	9303.5	10309.6	11101.8	10723.8	10184.3	7530.1
32.5°	9547.0	9569.7	9492.4	9387.7	9355.8	9610.8	10580.5	11734.6	11472.8	10799.0	7762.3
35°	10348.3	10407.5	10250.4	10066.0	9936.2	10052.4	10944.7	12381.0	12239.9	11584.4	8069.6
37.5°	11263.3	11336.2	11190.5	10828.6	10644.2	10676.1	11420.4	13180.1	13209.7	12478.9	8527.2
40°	12012.3	12107.9	12112.4	11600.2	11320.3	11356.7	12023.7	14040.5	14379.7	13585.3	9066.7
42.5°	12506.3	12599.6	12697.5	12397.0	12103.3	12310.5	12727.1	14973.8	15695.4	14928.3	9820.2
45°	13048.0	13132.2	13186.9	13050.3	12886.4	13423.6	13576.2	15966.3	17097.6	16428.4	10644.2
47.5°	13676.3	13769.6	13822.0	13692.2	13630.8	14400.2	14491.3	16892.7	18595.5	17885.3	11554.8
50°	14514.0	14584.5	14557.3	14475.3	14461.7	15149.1	15369.9	17760.1	19831.5	19453.7	12499.4
52.5°	15556.6	15640.7	15670.4	15554.3	15501.9	15684.1	16077.8	18549.9	20956.0	20801.3	13507.9
55°	16187.1	16321.5	16772.1	16954.2	17079.4	16376.0	16840.4	19421.8	21964.5	22221.7	14591.4
57.5°	15379.0	15552.0	16560.5	17470.9	18647.8	18106.1	17921.7	20332.4	22972.9	23598.9	15888.9
60°	13407.7	13446.4	14746.2	16423.9	18791.2	20330.1	20177.5	21780.1	24065.6	24987.5	17598.4
62.5°	9301.1	9383.1	10919.6	13596.6	17020.2	21131.3	24015.5	24279.5	25631.7	27065.8	20104.7
65°	4796.3	4689.2	6089.3	8545.4	12831.8	19228.3	27124.9	28875.5	29028.0	30316.4	23633.0
67.5°	2952.4	3000.3	3655.8	4989.7	7587.1	13974.5	26799.5	34491.3	33687.7	34306.8	26908.7
70°	2217.1	2276.3	2727.0	3414.5	4625.5	7990.0	21552.5	35852.5	36974.7	36815.4	27905.7
71°	1928.1	1989.6	2458.5	3107.2	3885.8	6166.6	18158.5	34427.5	37088.5	37061.3	27530.1
72.5°	1643.5	1682.3	2048.7	2631.5	3275.7	4322.8	13642.2	30876.4	35506.5	36414.7	26189.4
75°	1290.7	1320.3	1484.2	2007.7	2579.1	2654.2	7320.7	23148.2	29162.3	30892.3	21802.8
77.5°	1051.7	1072.2	1156.4	1491.0	1989.6	1880.2	3840.2	15067.2	18270.0	20011.3	12843.2
80°	835.4	858.2	908.3	1010.7	1491.0	1340.8	1832.5	7634.9	8825.4	8807.2	5126.3
82.5°	648.7	655.6	714.8	742.1	1019.8	951.5	992.5	3232.4	3580.7	3699.1	1850.7
85°	409.7	430.3	632.9	569.1	610.1	557.7	489.4	1283.9	1582.1	1559.3	739.8
87.5°	125.2	132.0	214.0	241.3	270.9	243.6	179.8	377.9	462.1	500.8	184.3
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°	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1	5083.1
2.5°	5112.7	5087.6	4998.8	4926.0	4857.7	4782.6	4718.9	4700.7	4684.7	4677.9	4675.6
5°	5160.5	5085.4	4910.1	4766.7	4652.8	4548.1	4482.1	4452.5	4423.0	4423.0	4432.1
7.5°	5228.7	5092.2	4821.3	4607.3	4463.9	4366.1	4318.2	4313.7	4320.5	4327.4	4329.6
10°	5303.9	5087.6	4691.5	4425.3	4297.8	4252.2	4254.5	4293.2	4329.6	4357.0	4361.5
12.5°	5376.8	5060.3	4539.0	4254.5	4172.5	4181.6	4245.4	4331.9	4402.5	4441.2	4443.4
15°	5458.7	5017.1	4354.6	4092.9	4065.6	4136.1	4254.5	4386.5	4493.5	4557.2	4564.1
17.5°	5527.0	4944.2	4161.2	3935.8	3969.9	4099.7	4263.6	4434.3	4564.1	4643.7	4657.4
20°	5604.3	4850.9	3960.9	3785.6	3883.5	4058.8	4245.4	4429.8	4564.1	4641.5	4659.6
22.5°	5665.8	4718.9	3769.6	3662.6	3806.0	4008.6	4183.9	4331.9	4441.2	4482.1	4509.4
25°	5690.9	4552.7	3589.8	3562.5	3744.6	3926.7	4045.0	4129.3	4163.5	4158.9	4170.3
27.5°	5677.3	4361.5	3435.0	3482.8	3667.2	3799.2	3858.4	3851.6	3790.1	3733.2	3760.5
30°	5620.3	4133.9	3305.3	3400.8	3567.0	3639.8	3630.8	3542.0	3425.9	3318.9	3325.7
32.5°	5517.9	3888.0	3184.6	3307.6	3425.9	3457.8	3396.3	3280.2	3114.1	2975.2	2954.7
35°	5431.3	3653.6	3077.6	3200.5	3284.8	3268.8	3209.7	3059.4	2909.2	2786.2	2765.8
37.5°	5417.7	3453.2	2975.2	3079.9	3127.7	3105.0	3032.1	2904.6	2850.0	2756.6	2745.3
40°	5490.6	3312.1	2870.5	2952.4	2975.2	2957.0	2877.3	2804.5	2854.5	2831.8	2831.8
42.5°	5688.6	3237.0	2777.2	2824.9	2843.2	2856.8	2799.9	2738.5	2799.9	2695.2	2661.1
45°	6002.7	3239.3	2692.9	2699.8	2754.4	2802.2	2763.5	2672.4	2640.6	2431.2	2390.2
47.5°	6464.9	3316.7	2624.6	2581.4	2679.3	2758.9	2704.3	2572.3	2431.2	2292.3	2267.3
50°	7004.4	3455.5	2563.2	2458.5	2579.1	2704.3	2663.4	2508.5	2362.9	2278.6	2262.7
52.5°	7603.0	3630.8	2488.0	2321.9	2456.1	2679.3	2672.4	2499.5	2299.1	2242.2	2228.6
55°	8342.8	3803.8	2394.7	2162.5	2346.9	2658.7	2647.4	2424.4	2285.4	2244.5	2239.9
57.5°	9203.3	4054.2	2260.4	2000.9	2221.8	2574.6	2549.5	2378.8	2239.9	2210.3	2208.0
60°	10589.5	4443.4	2069.2	1853.0	2094.3	2426.6	2458.5	2301.4	2167.1	2160.3	2158.0
62.5°	12412.9	4989.7	1871.1	1700.4	1946.2	2235.4	2326.5	2196.7	2089.7	2123.9	2128.4
65°	14930.6	5449.6	1666.3	1570.7	1782.4	2051.0	2201.2	2098.8	2003.2	2069.2	2069.2
67.5°	16571.8	5458.7	1479.7	1436.3	1616.2	1896.2	2069.2	1982.7	1891.7	2003.2	2007.7
70°	16230.4	4782.6	1324.8	1295.2	1454.6	1730.0	1923.5	1855.2	1750.5	1850.7	1814.3
71°	15679.5	4407.0	1263.4	1240.6	1390.8	1650.4	1855.2	1798.3	1693.6	1759.6	1739.1
72.5°	14800.8	3826.6	1163.2	1167.7	1295.2	1550.2	1759.6	1700.4	1595.7	1632.1	1625.3
75°	12510.8	3341.7	994.7	1015.3	1113.1	1379.5	1568.4	1522.9	1415.9	1415.9	1409.1
77.5°	7821.6	2335.5	826.3	837.7	944.7	1181.4	1347.6	1308.9	1206.5	1172.4	1163.2
80°	2918.3	1206.5	646.5	660.1	726.1	931.0	1115.4	1079.0	974.3	935.6	899.2
82.5°	1104.1	605.5	475.8	464.4	535.0	710.2	874.1	830.9	748.9	655.6	628.3
85°	416.5	300.5	291.4	282.2	314.1	421.1	541.8	532.7	446.2	380.1	373.3
87.5°	109.2	97.9	113.8	84.2	88.8	79.6	81.9	34.1	15.9	6.8	4.5
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)