

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: P199934

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-AFL-7030-800  
Description: GALLEON WALL LUMINAIRE  
(2) 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: 9790.2 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 86  
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: 25 FT

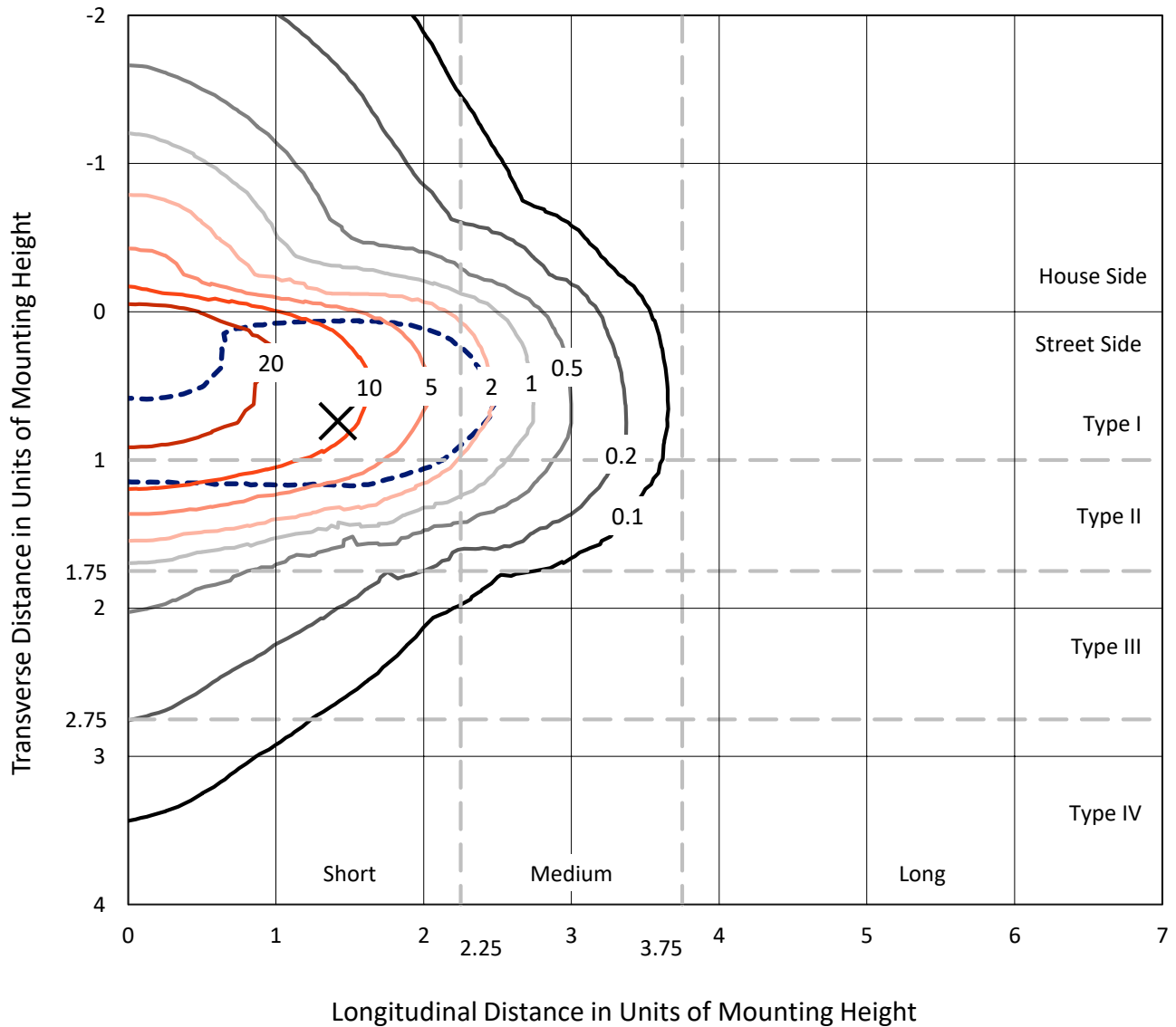


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

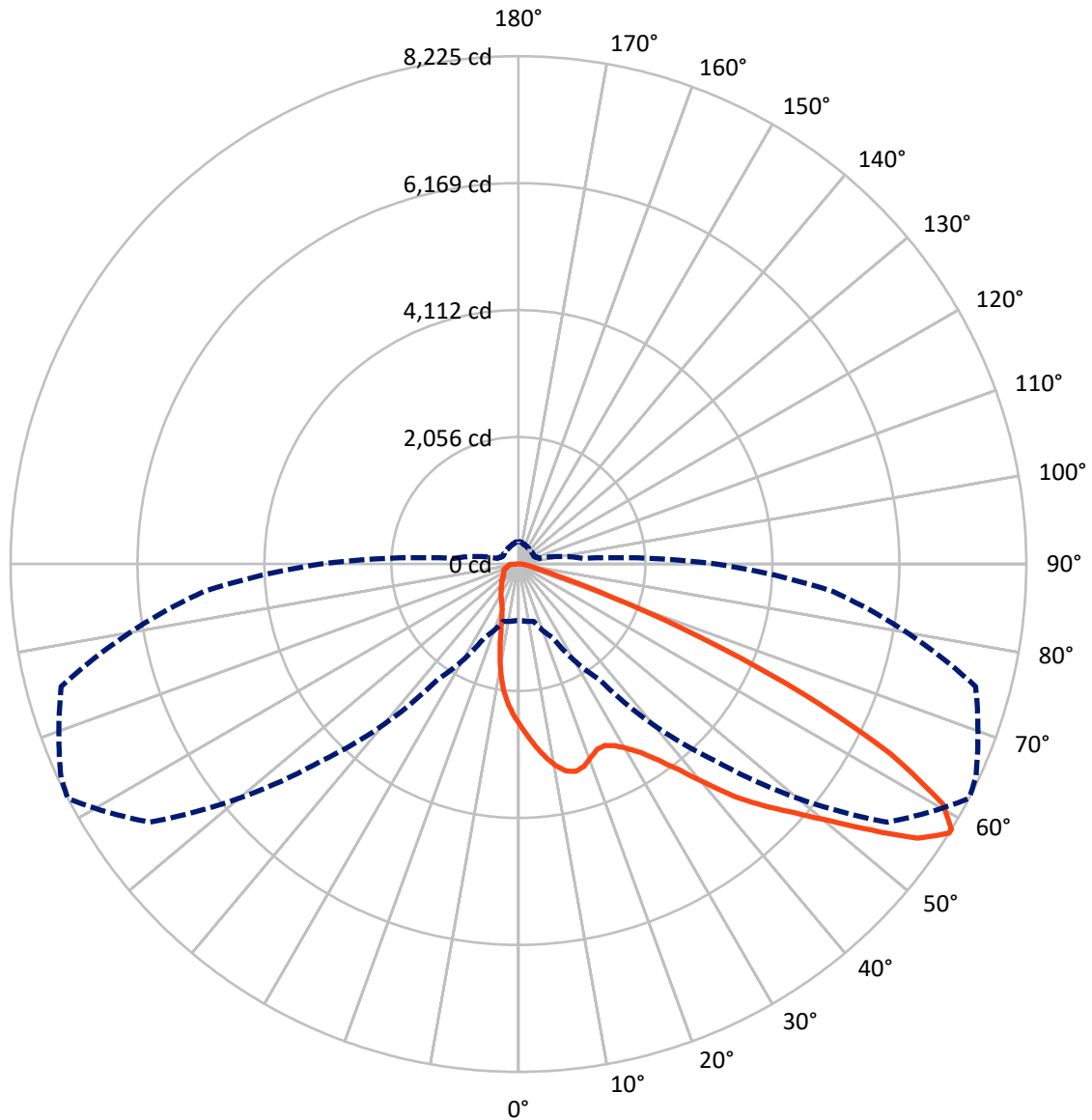


Based on 10 foot mounting height. Maximum calculated value = 31.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1493.1	0.0	1493.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	8297.1	0.0	8297.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	9790.2	0.0	9790.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.6	2.4
10°-20°	594.5	6.1
20°-30°	961.1	9.8
30°-40°	1525.7	15.6
40°-50°	2232.4	22.8
50°-60°	2334.9	23.8
60°-70°	1379.4	14.1
70°-80°	388.6	4.0
80°-90°	141.1	1.4
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°	9790.2	100.0
0°-180°	9790.2	100.0

**Coefficient of Utilization**



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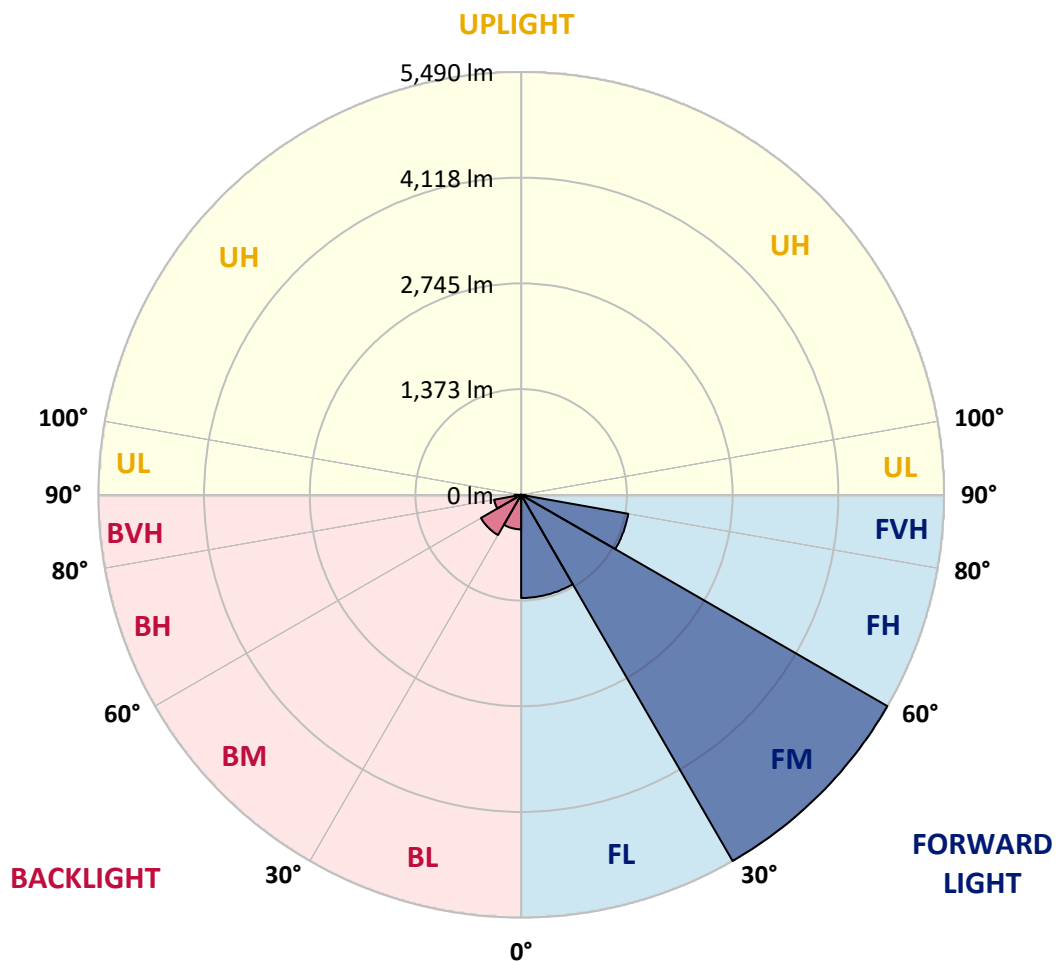
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.4	13.7			
FM	(30°-60°)	5490.3	56.1			
FH	(60°-80°)	1411.8	14.4			G1/1800
FVH	(80°-90°)	55.7	0.6			G1/100
BL	(0°-30°)	448.7	4.6	B1/500		
BM	(30°-60°)	602.6	6.2	B1/1000		
BH	(60°-80°)	356.3	3.6	B1/500		G1/500
BVH	(80°-90°)	85.4	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5
2.5°	2971.6	2947.7	2932.5	2919.1	2901.6	2864.2	2814.0	2782.2	2766.1	2711.2	2646.2
5°	3263.0	3241.9	3226.2	3208.2	3176.8	3118.3	3037.2	2972.6	2940.8	2831.0	2701.1
7.5°	3194.8	3203.5	3230.8	3278.3	3318.8	3310.9	3238.7	3156.6	3114.6	2962.0	2764.7
10°	2783.6	2798.8	2845.9	2956.9	3136.7	3321.1	3377.3	3320.7	3278.3	3091.5	2830.2
12.5°	2701.1	2700.7	2704.3	2733.8	2840.7	3100.3	3381.9	3439.2	3413.8	3215.1	2897.0
15°	2734.7	2735.7	2732.9	2745.3	2778.5	2881.3	3240.9	3484.8	3502.8	3339.5	2966.2
17.5°	2823.2	2820.9	2810.3	2810.3	2822.3	2862.4	3075.0	3442.4	3525.3	3449.7	3027.0
20°	2971.6	2961.1	2933.0	2907.1	2894.2	2915.9	3006.8	3344.7	3486.1	3546.1	3077.2
22.5°	3151.4	3143.2	3097.5	3042.2	2997.5	2997.0	3041.8	3259.4	3418.3	3636.9	3119.6
25°	3383.9	3370.4	3302.7	3214.2	3135.8	3105.8	3118.3	3255.2	3381.5	3735.5	3157.5
27.5°	3656.8	3632.3	3552.1	3424.4	3309.1	3248.8	3230.8	3330.4	3415.1	3857.8	3210.0
30°	3987.7	3959.6	3856.8	3690.4	3527.7	3428.6	3390.3	3463.6	3526.7	4006.6	3294.4
32.5°	4364.4	4323.8	4204.9	4021.4	3807.5	3656.3	3594.1	3639.7	3690.0	4186.0	3400.0
35°	4884.9	4836.4	4664.5	4411.4	4169.9	3961.9	3862.4	3895.6	3944.4	4453.3	3552.5
37.5°	5239.9	5218.2	5103.9	4866.0	4603.2	4364.0	4209.9	4229.3	4257.0	4787.6	3748.0
40°	5236.6	5245.3	5247.7	5250.0	5071.1	4842.0	4676.5	4656.2	4650.6	5154.6	3970.2
42.5°	4974.4	5010.2	5126.4	5362.0	5470.8	5365.8	5214.0	5155.4	5126.4	5587.0	4205.8
45°	4572.8	4592.1	4809.7	5269.8	5675.5	5884.3	5769.6	5585.2	5532.6	5984.4	4401.2
47.5°	4365.8	4386.9	4523.9	5025.5	5673.2	6303.4	6369.8	6018.5	5924.5	6330.2	4570.0
50°	3873.0	3917.3	4089.6	4600.5	5466.2	6496.1	6997.3	6534.9	6340.3	6666.7	4739.2
52.5°	2968.0	3036.2	3229.4	3901.6	4941.1	6400.7	7499.3	7160.9	6886.1	7015.2	4884.5
55°	1872.2	1922.9	2085.1	2755.4	3952.7	5904.2	7689.6	7838.2	7593.8	7345.3	5010.2
57.5°	1017.9	1040.5	1101.4	1521.3	2571.0	4806.5	7412.2	8223.5	8122.0	7625.6	5105.3
58°	910.9	926.2	964.0	1318.5	2280.2	4506.4	7289.1	8224.9	8174.1	7666.6	5112.6
60°	675.8	668.0	634.3	752.4	1269.1	3113.2	6545.0	7895.7	8044.6	7716.9	5076.6
62.5°	593.7	574.8	506.2	498.4	617.3	1434.2	5008.0	6763.4	7115.2	7430.1	4858.1
65°	557.9	537.6	449.1	420.4	445.3	606.6	2950.1	5072.5	5513.7	6560.7	4299.4
67.5°	531.1	504.8	412.6	373.5	375.3	401.1	1182.4	3194.8	3691.3	4981.2	3344.1
70°	505.2	476.7	381.7	336.5	326.0	317.2	470.2	1599.3	2049.7	3146.4	2132.1
72.5°	477.6	449.5	354.6	307.5	286.8	257.7	307.1	654.2	913.7	1488.6	967.2
75°	437.5	412.1	327.3	281.7	252.2	213.4	231.9	341.6	409.9	592.9	466.0
77.5°	388.2	367.4	296.9	260.5	223.6	173.4	178.4	236.9	262.8	339.3	277.1
80°	278.9	286.2	264.1	234.1	199.1	140.6	136.9	172.9	186.7	218.0	180.2
82.5°	195.9	200.1	218.5	191.3	164.5	110.6	101.0	121.7	130.0	143.4	97.3
85°	135.1	130.5	149.8	133.2	118.9	73.8	69.2	82.5	87.6	88.9	50.3
87.5°	81.1	81.1	86.7	71.4	64.1	38.2	37.4	47.0	50.3	47.9	27.7
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°	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5	2600.5
2.5°	2607.5	2574.8	2505.2	2449.3	2378.9	2305.5	2264.5	2220.6	2190.7	2169.1	2203.7
5°	2627.3	2560.5	2416.7	2280.2	2129.5	1972.6	1853.7	1743.1	1666.1	1618.2	1663.3
7.5°	2658.7	2555.9	2326.8	2093.5	1822.8	1561.9	1328.6	1182.4	1097.2	1055.3	1081.5
10°	2694.6	2548.5	2221.2	1840.3	1453.1	1124.4	950.1	891.2	871.7	864.0	867.6
12.5°	2724.6	2532.8	2091.7	1534.2	1091.3	887.9	837.7	836.3	840.5	841.3	842.7
15°	2745.8	2509.8	1899.4	1215.2	872.7	809.1	806.3	814.6	822.4	825.6	827.5
17.5°	2760.0	2462.2	1682.2	960.8	781.9	770.9	777.3	787.8	796.2	798.5	800.3
20°	2758.7	2392.6	1423.6	801.3	732.5	732.5	743.6	752.0	752.4	749.6	751.0
22.5°	2744.4	2297.2	1172.8	716.4	688.8	696.5	707.6	699.9	667.5	646.4	647.8
25°	2720.4	2183.4	958.0	662.5	648.2	662.1	658.8	599.8	553.7	533.0	533.0
27.5°	2699.3	2048.7	793.0	615.4	607.6	624.7	567.5	514.1	494.7	484.9	481.7
30°	2684.0	1903.5	682.8	570.2	569.4	556.9	492.4	477.6	474.4	466.6	463.8
32.5°	2687.7	1756.4	612.2	530.6	533.8	476.7	456.4	459.6	456.9	448.5	444.9
35°	2718.2	1616.8	566.1	494.7	484.9	430.6	435.2	441.2	440.3	428.8	425.0
37.5°	2772.5	1484.5	535.7	464.8	423.2	407.5	414.9	424.2	421.8	413.9	411.3
40°	2829.6	1360.0	510.8	441.2	386.8	391.8	398.3	403.4	405.7	408.0	406.1
42.5°	2885.5	1230.0	480.3	417.2	371.5	377.1	379.9	384.9	397.4	406.1	405.7
45°	2918.7	1107.8	449.1	383.1	359.6	362.8	361.0	371.1	386.3	400.6	401.1
47.5°	2955.5	1012.9	424.2	351.8	348.1	350.4	344.9	355.0	368.8	386.3	388.2
50°	3000.2	956.1	404.3	326.8	332.4	332.4	331.0	340.3	359.6	379.9	383.6
52.5°	3051.0	945.1	387.7	308.9	316.7	316.2	317.6	331.5	352.7	372.5	375.7
55°	3112.8	975.0	369.7	295.5	301.5	303.3	307.9	323.6	341.6	364.2	365.6
57.5°	3184.6	1035.9	355.4	285.0	287.6	293.7	301.1	315.3	334.7	359.6	361.0
58°	3196.7	1048.8	353.2	284.0	285.0	291.8	300.1	314.0	333.3	360.5	361.9
60°	3197.1	1091.7	348.1	279.8	274.3	285.8	295.0	308.9	331.0	363.8	367.0
62.5°	3083.7	1091.3	344.3	273.9	263.3	277.5	288.2	304.3	328.7	371.5	378.1
65°	2715.4	991.6	326.8	264.7	254.4	270.1	282.2	301.1	335.1	405.7	409.9
67.5°	2123.9	812.8	294.1	251.8	243.0	262.8	278.4	300.5	342.1	413.5	416.3
70°	1404.2	608.0	258.2	236.9	230.9	254.0	280.3	316.2	334.3	397.0	389.6
72.5°	728.9	426.9	229.1	218.5	217.2	246.2	307.1	314.4	326.4	373.5	364.2
75°	382.7	296.4	203.8	198.3	200.5	244.4	362.4	306.1	316.2	357.2	374.9
77.5°	234.1	239.3	182.1	179.8	184.4	238.8	361.9	295.5	301.5	328.7	348.1
80°	156.7	194.1	165.5	165.9	169.2	218.5	325.0	278.9	283.6	310.7	330.5
82.5°	99.1	114.8	150.3	158.1	154.0	180.2	276.1	254.0	260.5	355.4	375.7
85°	50.3	72.0	130.5	152.1	138.8	126.3	224.1	222.7	225.9	256.3	267.9
87.5°	23.1	39.6	101.9	132.8	104.6	78.8	162.7	165.1	178.0	182.1	182.1
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)