

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: P200094

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200094  
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-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10533.3 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

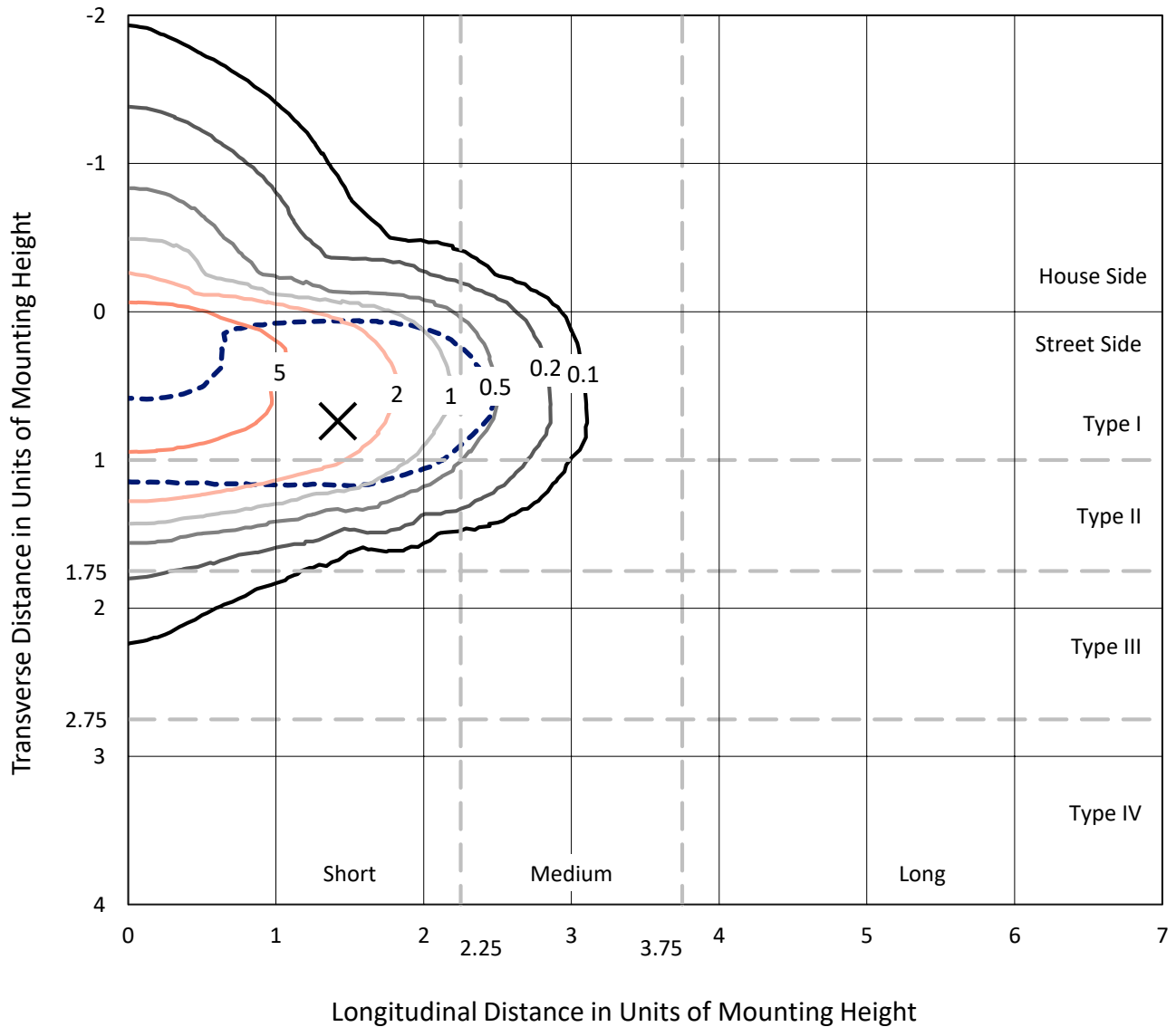
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

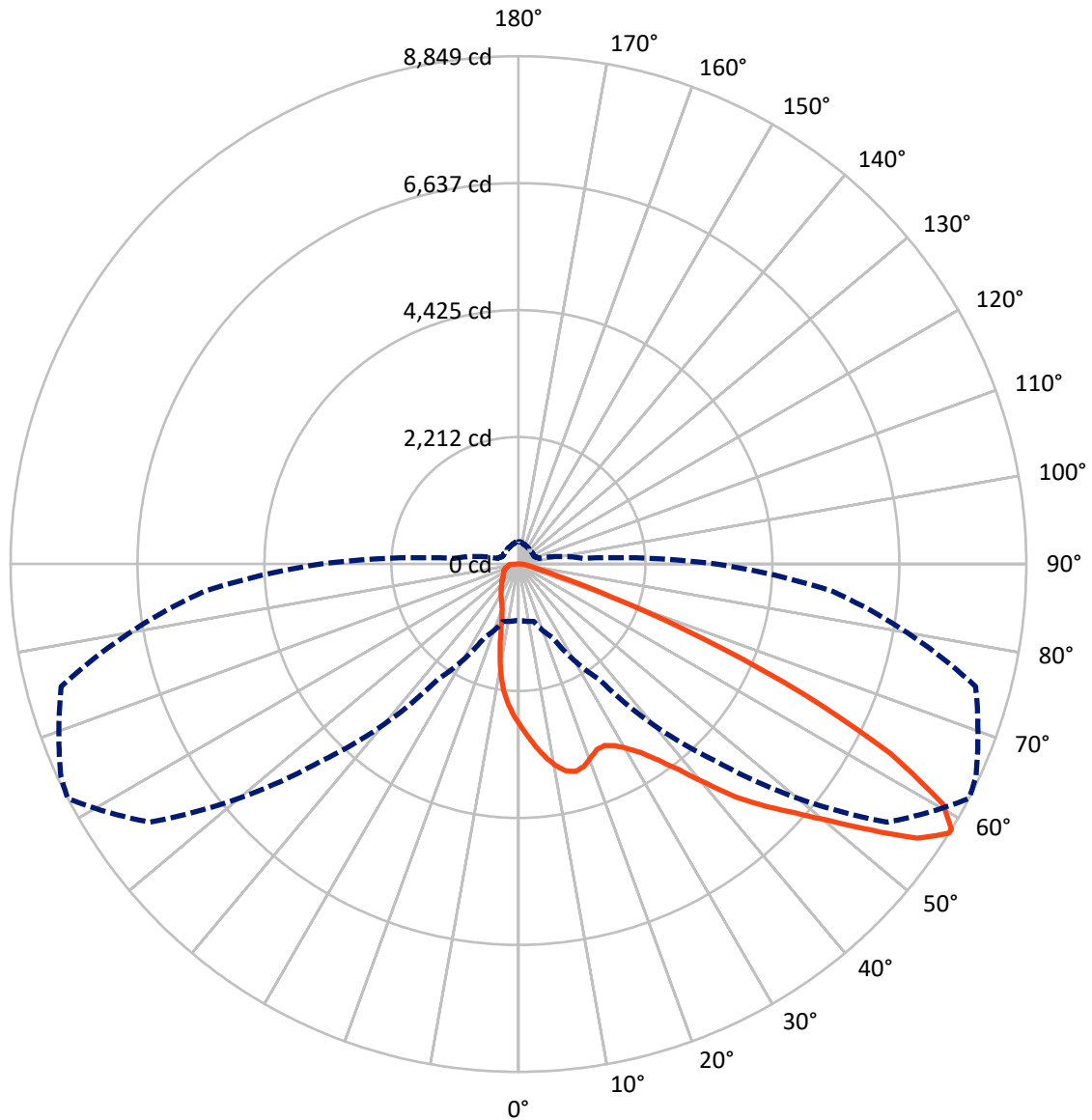
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	1606.4	0.0	1606.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	8927.0	0.0	8927.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	10533.3	0.0	10533.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	2.4
10°-20°	639.6	6.1
20°-30°	1034.0	9.8
30°-40°	1641.5	15.6
40°-50°	2401.8	22.8
50°-60°	2512.1	23.8
60°-70°	1484.2	14.1
70°-80°	418.1	4.0
80°-90°	151.8	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°	10533.3	100.0
0°-180°	10533.3	100.0



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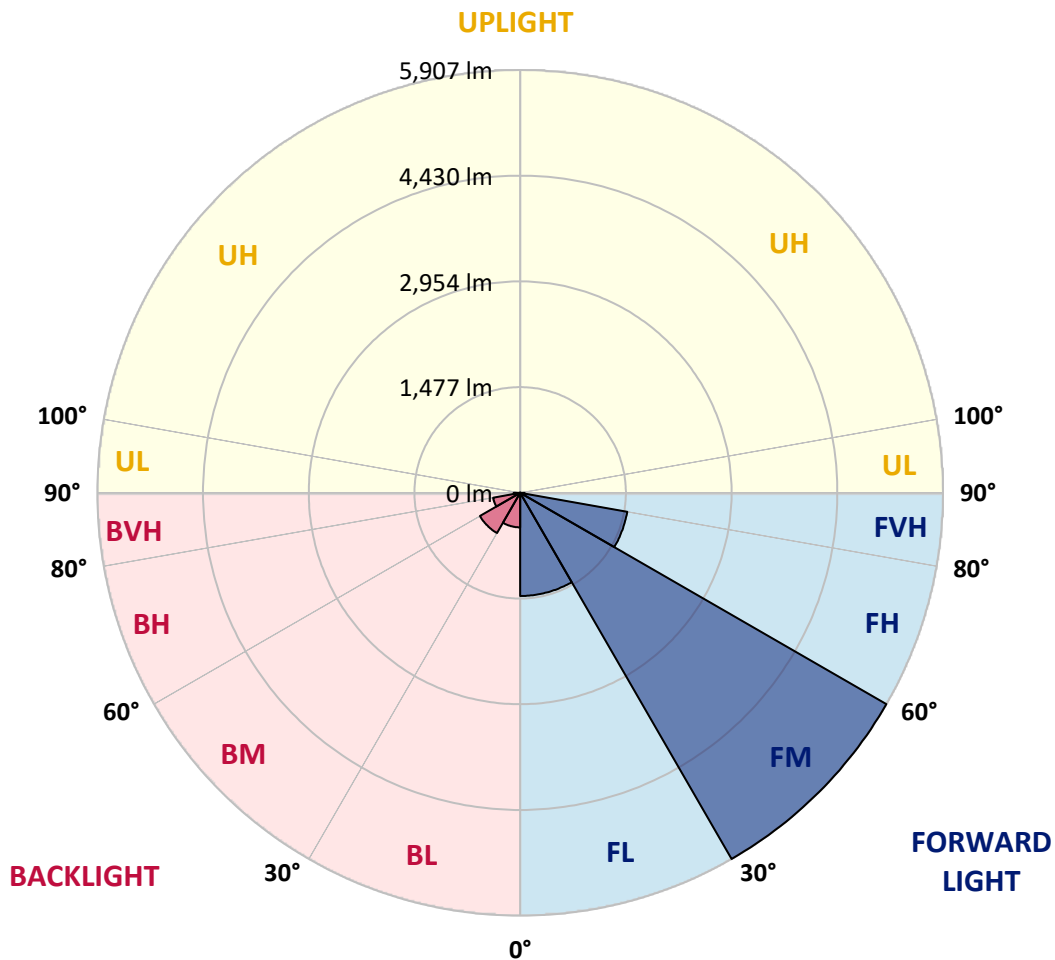
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1441.1	13.7			
FM	(30°-60°)	5907.0	56.1			
FH	(60°-80°)	1519.0	14.4			G1/1800
FVH	(80°-90°)	59.9	0.6			G1/100
BL	(0°-30°)	482.8	4.6	B1/500		
BM	(30°-60°)	648.4	6.2	B1/1000		
BH	(60°-80°)	383.3	3.6	B1/500		G1/500
BVH	(80°-90°)	91.9	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°	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	3197.2	3171.5	3155.1	3140.7	3121.8	3081.6	3027.6	2993.4	2976.1	2917.0	2847.1
5°	3510.8	3488.0	3471.1	3451.7	3418.0	3355.0	3267.7	3198.3	3164.0	3045.9	2906.1
7.5°	3437.3	3446.7	3476.0	3527.1	3570.7	3562.3	3484.5	3396.1	3351.0	3186.8	2974.5
10°	2994.9	3011.3	3061.8	3181.4	3374.8	3573.3	3633.7	3572.8	3527.1	3326.2	3045.0
12.5°	2906.1	2905.6	2909.6	2941.3	3056.4	3335.6	3638.7	3700.2	3672.9	3459.1	3116.9
15°	2942.3	2943.3	2940.3	2953.7	2989.5	3100.1	3486.9	3749.3	3768.7	3593.0	3191.3
17.5°	3037.6	3035.1	3023.6	3023.6	3036.5	3079.7	3308.3	3703.7	3793.0	3711.6	3256.8
20°	3197.2	3185.9	3155.6	3127.8	3114.0	3137.2	3235.0	3598.5	3750.8	3815.3	3310.9
22.5°	3390.7	3381.8	3332.7	3273.1	3225.1	3224.5	3272.6	3506.8	3677.9	3913.0	3356.5
25°	3640.7	3626.3	3553.4	3458.2	3373.8	3341.6	3355.0	3502.3	3638.2	4019.2	3397.1
27.5°	3934.3	3908.0	3821.7	3684.4	3560.3	3495.3	3476.0	3583.1	3674.4	4150.5	3453.7
30°	4290.5	4260.2	4149.6	3970.5	3795.5	3688.8	3647.6	3726.5	3794.4	4310.8	3544.4
32.5°	4695.7	4652.1	4524.1	4326.7	4096.5	3933.9	3866.9	3916.0	3970.1	4503.7	3658.1
35°	5255.7	5203.5	5018.6	4746.3	4486.4	4262.6	4155.5	4191.2	4243.8	4791.4	3822.3
37.5°	5637.6	5614.3	5491.3	5235.4	4952.6	4695.1	4529.5	4550.4	4580.1	5151.0	4032.5
40°	5634.1	5643.5	5646.0	5648.5	5456.0	5209.6	5031.5	5009.7	5003.7	5545.8	4271.6
42.5°	5351.9	5390.5	5515.5	5769.0	5886.1	5773.0	5609.9	5546.8	5515.5	6011.1	4525.0
45°	4919.9	4940.8	5174.8	5669.8	6106.3	6331.0	6207.5	6009.1	5952.6	6438.7	4735.3
47.5°	4697.2	4720.0	4867.3	5406.9	6103.8	6781.9	6853.3	6475.4	6374.1	6810.6	4916.9
50°	4166.9	4214.6	4400.0	4949.6	5881.1	6989.2	7528.4	7030.8	6821.5	7172.7	5098.9
52.5°	3193.2	3266.7	3474.6	4197.7	5316.2	6886.5	8068.5	7704.5	7408.8	7547.7	5255.2
55°	2014.3	2068.8	2243.4	2964.6	4252.7	6352.3	8273.3	8433.1	8170.2	7902.8	5390.5
57.5°	1095.2	1119.5	1185.0	1636.8	2766.3	5171.3	7974.7	8847.7	8738.7	8204.4	5492.7
58°	980.1	996.5	1037.2	1418.5	2453.2	4848.5	7842.4	8849.2	8794.6	8248.6	5500.7
60°	727.1	718.7	682.5	809.5	1365.5	3349.6	7041.8	8495.1	8655.3	8302.6	5462.0
62.5°	638.8	618.5	544.6	536.2	664.1	1543.1	5388.1	7276.9	7655.4	7994.2	5226.9
65°	600.2	578.4	483.1	452.3	479.2	652.7	3173.9	5457.5	5932.2	7058.7	4625.8
67.5°	571.4	543.1	444.0	401.7	403.8	431.5	1272.2	3437.3	3971.5	5359.3	3598.0
70°	543.6	512.9	410.7	362.1	350.7	341.3	506.0	1720.6	2205.3	3385.3	2294.1
72.5°	513.8	483.7	381.5	330.8	308.5	277.2	330.3	703.8	983.1	1601.6	1040.6
75°	470.7	443.4	352.2	303.1	271.3	229.7	249.5	367.5	441.0	637.9	501.5
77.5°	417.7	395.3	319.5	280.3	240.6	186.5	191.9	254.9	282.7	365.1	298.1
80°	300.1	308.0	284.2	252.0	214.3	151.3	147.3	186.0	200.9	234.6	194.0
82.5°	210.8	215.2	235.1	205.8	177.1	119.1	108.6	130.9	139.8	154.3	104.6
85°	145.4	140.3	161.2	143.3	128.0	79.4	74.4	88.8	94.2	95.7	54.1
87.5°	87.3	87.3	93.3	76.9	68.9	41.1	40.2	50.6	54.1	51.6	29.8
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°	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2805.4	2770.2	2695.3	2635.2	2559.4	2480.6	2436.4	2389.3	2357.0	2333.7	2370.9
5°	2826.7	2754.8	2600.0	2453.2	2291.0	2122.4	1994.4	1875.4	1792.5	1741.0	1789.6
7.5°	2860.5	2749.9	2503.4	2252.3	1961.2	1680.5	1429.5	1272.2	1180.5	1135.4	1163.6
10°	2899.1	2741.9	2389.7	1980.0	1563.4	1209.7	1022.2	958.8	937.9	929.6	933.4
12.5°	2931.4	2725.0	2250.4	1650.7	1174.0	955.3	901.2	899.8	904.2	905.2	906.7
15°	2954.2	2700.3	2043.5	1307.4	939.0	870.5	867.5	876.5	884.9	888.3	890.4
17.5°	2969.6	2649.1	1809.9	1033.7	841.3	829.3	836.3	847.7	856.6	859.1	861.0
20°	2968.1	2574.3	1531.7	862.0	788.2	788.2	800.0	808.9	809.5	806.5	808.0
22.5°	2952.7	2471.6	1261.8	770.8	741.0	749.4	761.4	752.9	718.2	695.4	696.9
25°	2927.0	2349.1	1030.7	712.8	697.3	712.3	708.8	645.3	595.7	573.4	573.4
27.5°	2904.2	2204.3	853.1	662.2	653.8	672.1	610.6	553.0	532.2	521.8	518.3
30°	2887.8	2048.0	734.6	613.6	612.5	599.1	529.7	513.8	510.4	502.0	499.0
32.5°	2891.7	1889.8	658.7	570.9	574.4	512.9	491.0	494.5	491.5	482.6	478.6
35°	2924.4	1739.5	609.1	532.2	521.8	463.3	468.2	474.6	473.7	461.2	457.4
37.5°	2982.9	1597.1	576.3	500.0	455.3	438.4	446.4	456.3	453.9	445.4	442.4
40°	3044.5	1463.2	549.5	474.6	416.1	421.6	428.5	434.0	436.5	438.9	437.0
42.5°	3104.5	1323.4	516.8	448.9	399.8	405.7	408.7	414.2	427.6	437.0	436.5
45°	3140.3	1191.9	483.1	412.1	386.9	390.4	388.4	399.3	415.6	431.1	431.5
47.5°	3179.8	1089.7	456.3	378.5	374.5	377.0	371.0	382.0	396.8	415.6	417.7
50°	3228.0	1028.7	435.0	351.7	357.6	357.6	356.1	366.0	386.9	408.7	412.7
52.5°	3282.5	1016.8	417.2	332.4	340.7	340.2	341.8	356.6	379.4	400.8	404.3
55°	3349.0	1049.0	397.8	317.9	324.4	326.3	331.3	348.2	367.5	391.9	393.3
57.5°	3426.4	1114.5	382.4	306.6	309.5	316.0	323.9	339.3	360.1	386.9	388.4
58°	3439.3	1128.4	379.9	305.6	306.6	313.9	322.9	337.8	358.6	387.9	389.3
60°	3439.8	1174.6	374.5	301.1	295.1	307.5	317.4	332.4	356.1	391.4	394.9
62.5°	3317.7	1174.0	370.5	294.6	283.3	298.6	310.0	327.3	353.6	399.8	406.7
65°	2921.4	1066.9	351.7	284.7	273.8	290.6	303.5	323.9	360.6	436.5	441.0
67.5°	2285.1	874.4	316.5	270.8	261.4	282.7	299.6	323.4	368.1	444.9	447.8
70°	1510.8	654.3	277.7	254.9	248.5	273.3	301.6	340.2	359.6	427.1	419.1
72.5°	784.2	459.3	246.5	235.1	233.6	264.8	330.3	338.3	351.2	401.7	391.9
75°	411.6	319.0	219.2	213.3	215.7	262.9	389.8	329.4	340.2	384.4	403.2
77.5°	252.0	257.5	195.9	193.4	198.5	257.0	389.3	317.9	324.4	353.6	374.5
80°	168.7	208.8	178.1	178.6	182.0	235.1	349.6	300.1	305.0	334.3	355.7
82.5°	106.6	123.5	161.7	170.1	165.6	194.0	297.1	273.3	280.3	382.4	404.3
85°	54.1	77.3	140.3	163.7	149.2	136.0	241.0	239.6	243.1	275.8	288.2
87.5°	24.8	42.7	109.7	142.8	112.6	84.8	175.1	177.6	191.5	195.9	195.9
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)