

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: P200098

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200098
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-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14300.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

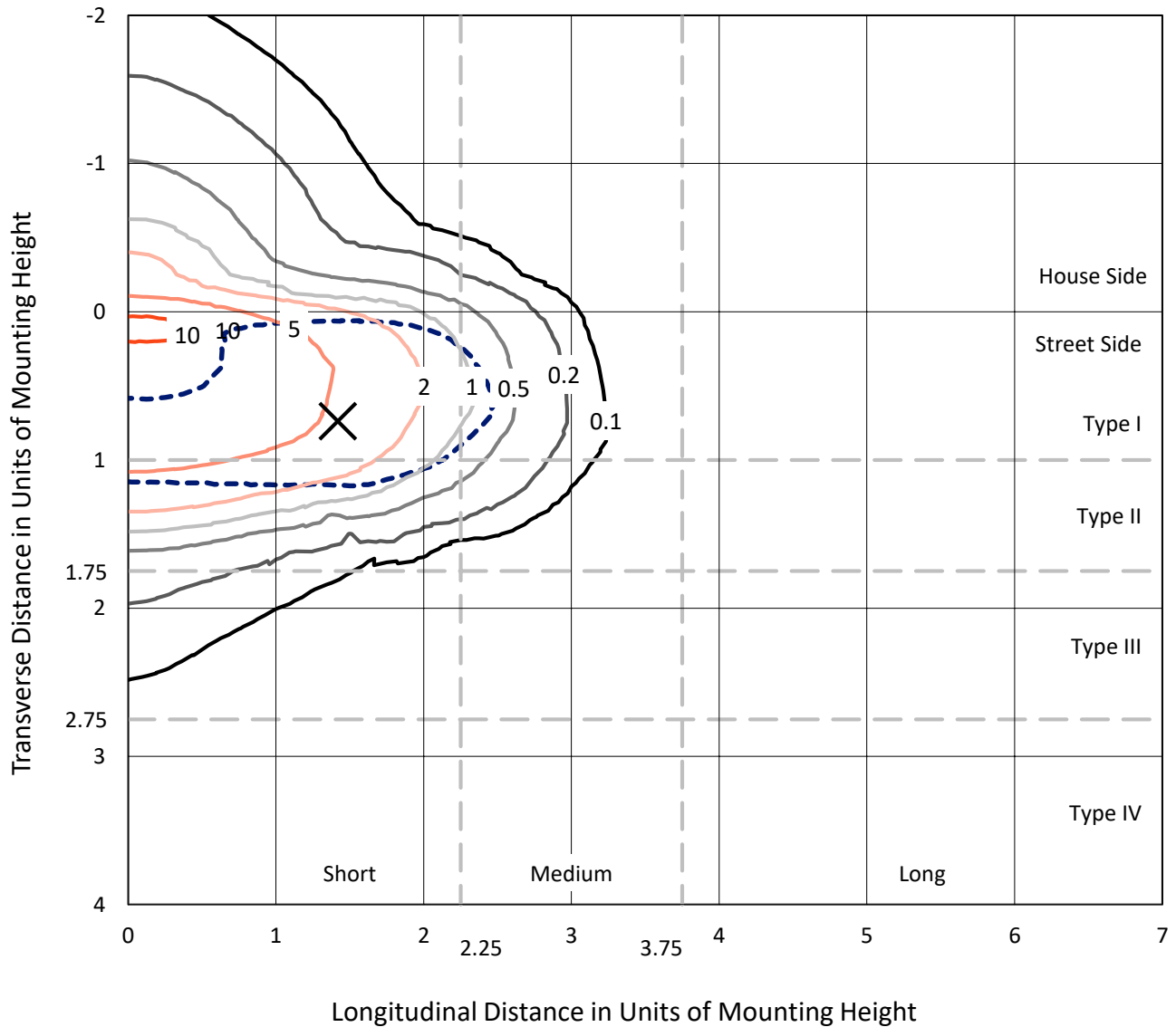
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

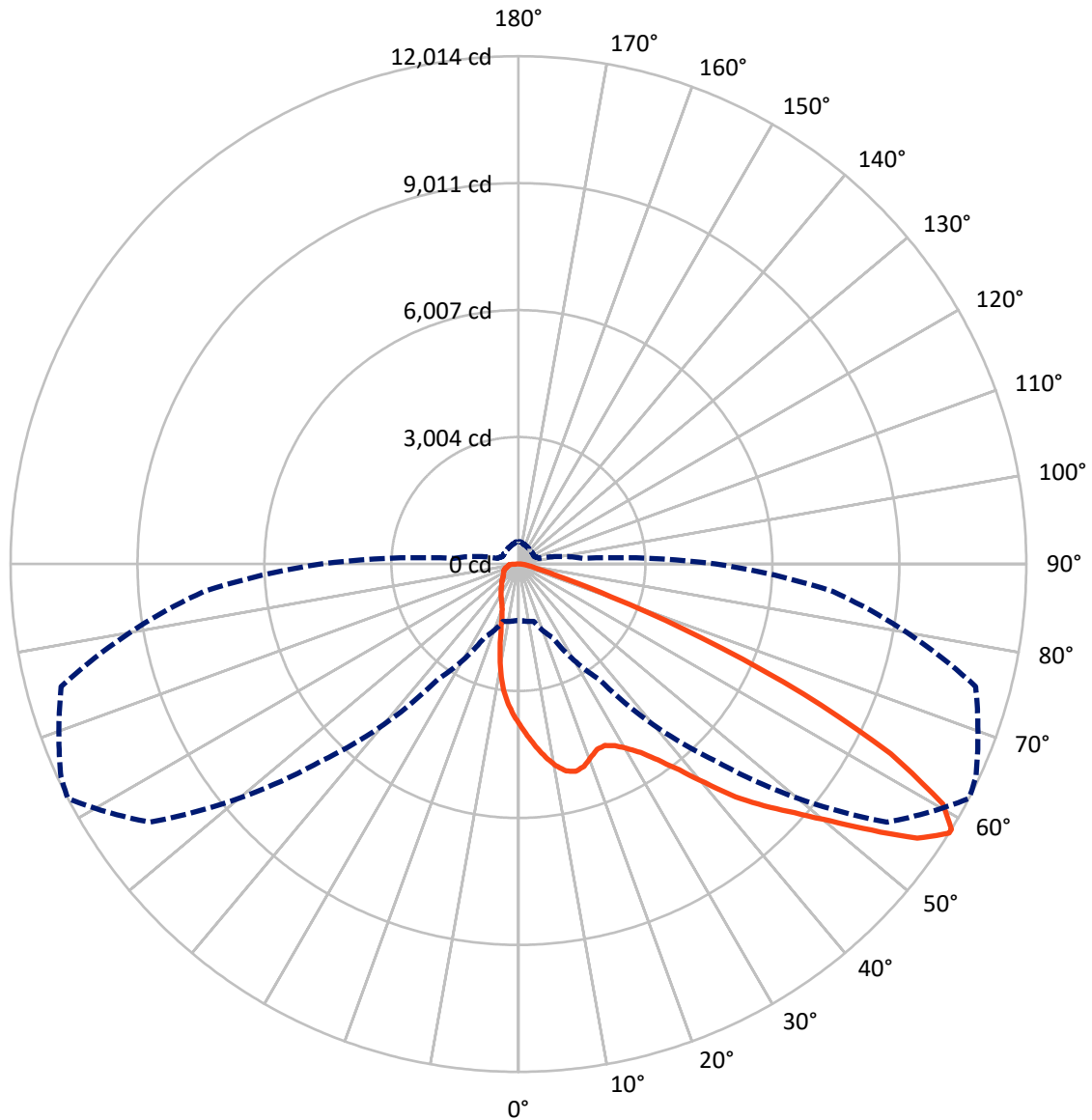
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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
House Side	Lumens	2180.9	0.0	2180.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12119.9	0.0	12119.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	14300.8	0.0	14300.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	2.4
10°-20°	868.4	6.1
20°-30°	1403.8	9.8
30°-40°	2228.6	15.6
40°-50°	3260.9	22.8
50°-60°	3410.6	23.8
60°-70°	2015.0	14.1
70°-80°	567.6	4.0
80°-90°	206.1	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°	14300.8	100.0
0°-180°	14300.8	100.0

Coefficient of Utilization



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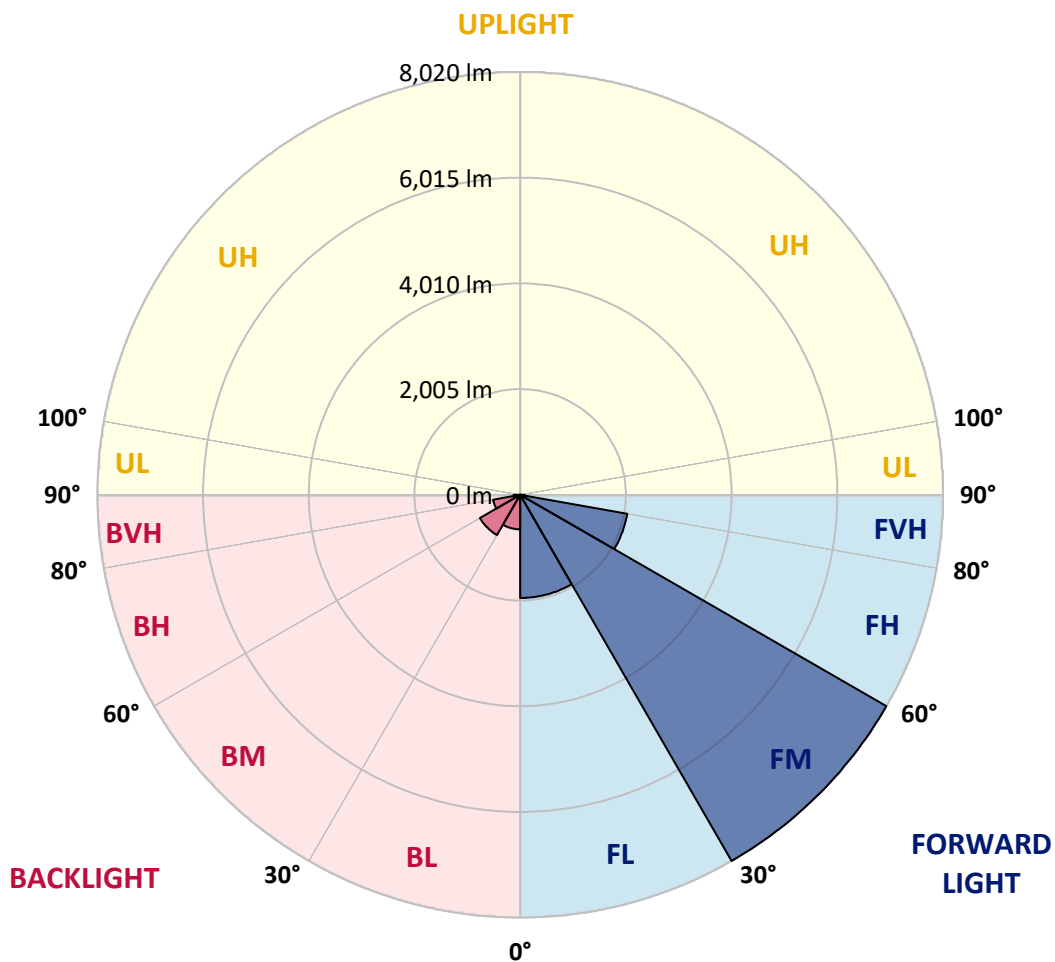
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1956.5	13.7			
FM	(30°-60°)	8019.8	56.1			
FH	(60°-80°)	2062.2	14.4			G2/5000
FVH	(80°-90°)	81.3	0.6			G1/100
BL	(0°-30°)	655.5	4.6	B2/1000		
BM	(30°-60°)	880.3	6.2	B1/1000		
BH	(60°-80°)	520.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	124.8	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7
2.5°	4340.8	4305.8	4283.6	4264.1	4238.5	4184.0	4110.5	4064.1	4040.5	3960.4	3865.4
5°	4766.4	4735.4	4712.5	4686.2	4640.5	4555.0	4436.4	4342.2	4295.7	4135.5	3945.5
7.5°	4666.8	4679.6	4719.3	4788.6	4847.9	4836.5	4730.7	4610.8	4549.6	4326.7	4038.5
10°	4066.0	4088.3	4157.0	4319.3	4581.9	4851.2	4933.4	4850.6	4788.6	4515.9	4134.1
12.5°	3945.5	3944.9	3950.2	3993.4	4149.6	4528.7	4940.1	5023.7	4986.7	4696.4	4231.7
15°	3994.7	3996.1	3992.0	4010.2	4058.7	4208.8	4734.1	5090.3	5116.6	4878.2	4332.7
17.5°	4124.0	4120.7	4105.1	4105.1	4122.6	4181.2	4491.7	5028.4	5149.6	5039.2	4421.6
20°	4340.8	4325.3	4284.2	4246.6	4227.7	4259.4	4392.0	4885.6	5092.4	5179.9	4495.1
22.5°	4603.5	4591.3	4524.7	4443.9	4378.5	4377.8	4443.2	4761.0	4993.3	5312.6	4557.0
25°	4942.9	4923.4	4824.3	4695.0	4580.6	4536.8	4555.0	4755.0	4939.5	5456.7	4612.2
27.5°	5341.5	5305.8	5188.6	5002.1	4833.7	4745.6	4719.3	4864.7	4988.6	5635.1	4689.0
30°	5825.0	5784.0	5633.8	5390.6	5153.0	5008.2	4952.3	5059.4	5151.6	5852.6	4812.3
32.5°	6375.2	6315.9	6142.2	5874.2	5561.7	5340.8	5250.0	5316.6	5390.0	6114.6	4966.4
35°	7135.5	7064.8	6813.6	6443.9	6091.1	5787.3	5641.9	5690.4	5761.8	6505.1	5189.3
37.5°	7654.0	7622.4	7455.4	7107.9	6724.1	6374.5	6149.6	6177.9	6218.3	6993.4	5474.8
40°	7649.3	7662.1	7665.5	7668.9	7407.6	7072.9	6831.2	6801.5	6793.4	7529.4	5799.4
42.5°	7266.1	7318.7	7488.4	7832.5	7991.4	7837.8	7616.3	7530.8	7488.4	8161.1	6143.5
45°	6679.6	6707.9	7025.7	7697.8	8290.4	8595.4	8427.8	8158.4	8081.6	8741.6	6429.0
47.5°	6377.3	6408.2	6608.3	7340.9	8287.0	9207.6	9304.6	8791.4	8654.1	9246.7	6675.6
50°	5657.3	5722.0	5973.8	6720.0	7984.6	9489.1	10221.1	9545.7	9261.5	9738.3	6922.7
52.5°	4335.5	4435.1	4717.2	5699.1	7217.6	9349.7	10954.5	10460.2	10058.8	10247.3	7134.8
55°	2734.8	2808.8	3045.8	4025.0	5773.8	8624.4	11232.5	11449.4	11092.5	10729.5	7318.7
57.5°	1486.9	1519.9	1608.8	2222.3	3755.7	7021.0	10827.1	12012.4	11864.2	11138.9	7457.4
58°	1330.7	1352.9	1408.1	1926.0	3330.7	6582.6	10647.4	12014.4	11940.3	11198.9	7468.2
60°	987.2	975.8	926.6	1099.1	1853.9	4547.5	9560.5	11533.6	11751.0	11272.3	7415.7
62.5°	867.4	839.7	739.4	727.9	901.7	2095.0	7315.3	9879.7	10393.5	10853.4	7096.4
65°	814.8	785.2	655.9	614.2	650.5	886.2	4309.2	7409.5	8054.0	9583.3	6280.3
67.5°	775.8	737.3	602.7	545.4	548.2	585.8	1727.4	4666.8	5392.1	7276.2	4884.9
70°	738.1	696.3	557.6	491.6	476.1	463.3	686.9	2336.1	2994.0	4596.0	3114.6
72.5°	697.7	656.5	517.8	449.2	418.9	376.4	448.5	955.5	1334.7	2174.5	1412.8
75°	639.0	602.0	478.1	411.4	368.4	311.8	338.7	499.0	598.6	866.0	680.8
77.5°	567.0	536.7	433.6	380.4	326.6	253.2	260.6	346.2	383.8	495.6	404.7
80°	407.4	418.2	385.9	342.1	290.9	205.4	200.0	252.6	272.7	318.5	263.3
82.5°	286.2	292.3	319.2	279.5	240.4	161.6	147.5	177.8	189.9	209.4	142.1
85°	197.3	190.6	218.8	194.7	173.7	107.7	101.0	120.5	128.0	130.0	73.4
87.5°	118.6	118.6	126.6	104.3	93.6	55.9	54.5	68.6	73.4	70.1	40.4
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°	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7	3798.7
2.5°	3808.9	3761.0	3659.3	3577.9	3474.9	3367.8	3307.8	3243.9	3200.1	3168.4	3218.9
5°	3837.8	3740.1	3530.0	3330.7	3110.5	2881.6	2707.8	2546.2	2433.7	2363.7	2429.7
7.5°	3883.5	3733.4	3398.8	3058.0	2662.6	2281.5	1940.7	1727.4	1602.8	1541.5	1579.8
10°	3936.1	3722.6	3244.5	2688.3	2122.6	1642.4	1387.9	1301.7	1273.5	1262.0	1267.3
12.5°	3979.9	3699.7	3055.2	2241.1	1594.0	1297.0	1223.6	1221.6	1227.6	1229.0	1231.0
15°	4010.9	3666.1	2774.4	1775.1	1274.8	1181.8	1177.8	1189.9	1201.4	1206.1	1208.8
17.5°	4031.8	3596.7	2457.3	1403.4	1142.1	1126.0	1135.4	1150.8	1163.0	1166.4	1169.0
20°	4029.7	3495.0	2079.5	1170.4	1070.0	1070.0	1086.2	1098.3	1099.1	1095.0	1097.0
22.5°	4008.8	3355.6	1713.1	1046.5	1006.1	1017.5	1033.7	1022.2	975.1	944.1	946.1
25°	3973.9	3189.3	1399.4	967.7	946.8	967.0	962.3	876.2	808.7	778.5	778.5
27.5°	3942.9	2992.6	1158.3	899.0	887.5	912.5	829.0	750.8	722.6	708.4	703.7
30°	3920.7	2780.5	997.4	833.0	831.7	813.5	719.2	697.7	692.9	681.5	677.5
32.5°	3926.0	2565.7	894.3	775.1	779.8	696.3	666.7	671.4	667.4	655.2	649.9
35°	3970.5	2361.7	827.0	722.6	708.4	629.0	635.7	644.5	643.1	626.3	620.9
37.5°	4050.0	2168.3	782.6	678.8	618.2	595.3	606.1	619.5	616.1	604.8	600.7
40°	4133.4	1986.6	746.1	644.5	565.0	572.4	581.9	589.2	592.6	596.0	593.3
42.5°	4214.9	1796.7	701.7	609.5	542.8	550.9	554.8	562.3	580.5	593.3	592.6
45°	4263.4	1618.2	655.9	559.7	525.3	530.0	527.3	542.1	564.4	585.2	585.8
47.5°	4317.3	1479.5	619.5	513.8	508.4	511.8	503.7	518.5	538.7	564.4	567.0
50°	4382.6	1396.6	590.5	477.4	485.5	485.5	483.5	496.9	525.3	554.8	560.3
52.5°	4456.7	1380.5	566.3	451.2	462.7	462.0	464.0	484.2	515.2	544.1	548.8
55°	4546.9	1424.3	540.1	431.7	440.4	443.1	449.8	472.7	499.0	532.0	534.0
57.5°	4652.0	1513.1	519.2	416.1	420.2	428.9	439.8	460.6	488.9	525.3	527.3
58°	4669.5	1532.0	515.9	414.8	416.1	426.3	438.4	458.6	486.9	526.6	528.7
60°	4670.1	1594.7	508.4	408.8	400.7	417.5	431.0	451.2	483.5	531.3	536.0
62.5°	4504.5	1594.0	503.1	400.0	384.5	405.4	420.8	444.5	480.2	542.8	552.2
65°	3966.4	1448.5	477.4	386.6	371.7	394.7	412.1	439.8	489.6	592.6	598.6
67.5°	3102.4	1187.2	429.6	367.6	354.9	383.8	406.7	439.1	499.7	604.1	608.1
70°	2051.2	888.2	377.2	346.2	337.4	371.0	409.4	462.0	488.3	579.8	569.1
72.5°	1064.7	623.6	334.7	319.2	317.2	359.6	448.5	459.3	476.8	545.4	532.0
75°	558.9	433.0	297.7	289.6	293.0	356.9	529.3	447.1	462.0	521.9	547.5
77.5°	342.1	349.5	266.0	262.6	269.3	348.8	528.7	431.7	440.4	480.2	508.4
80°	228.9	283.5	241.7	242.4	247.1	319.2	474.8	407.4	414.2	453.9	482.8
82.5°	144.7	167.7	219.5	231.0	224.9	263.3	403.3	371.0	380.4	519.2	548.8
85°	73.4	105.1	190.6	222.2	202.7	184.5	327.2	325.3	330.0	374.4	391.3
87.5°	33.7	57.9	148.8	194.0	152.8	115.2	237.7	241.1	259.9	266.0	266.0
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)