

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: P193520

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193520
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: GLEON-AF-02-LED-E1-AFL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11184 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

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

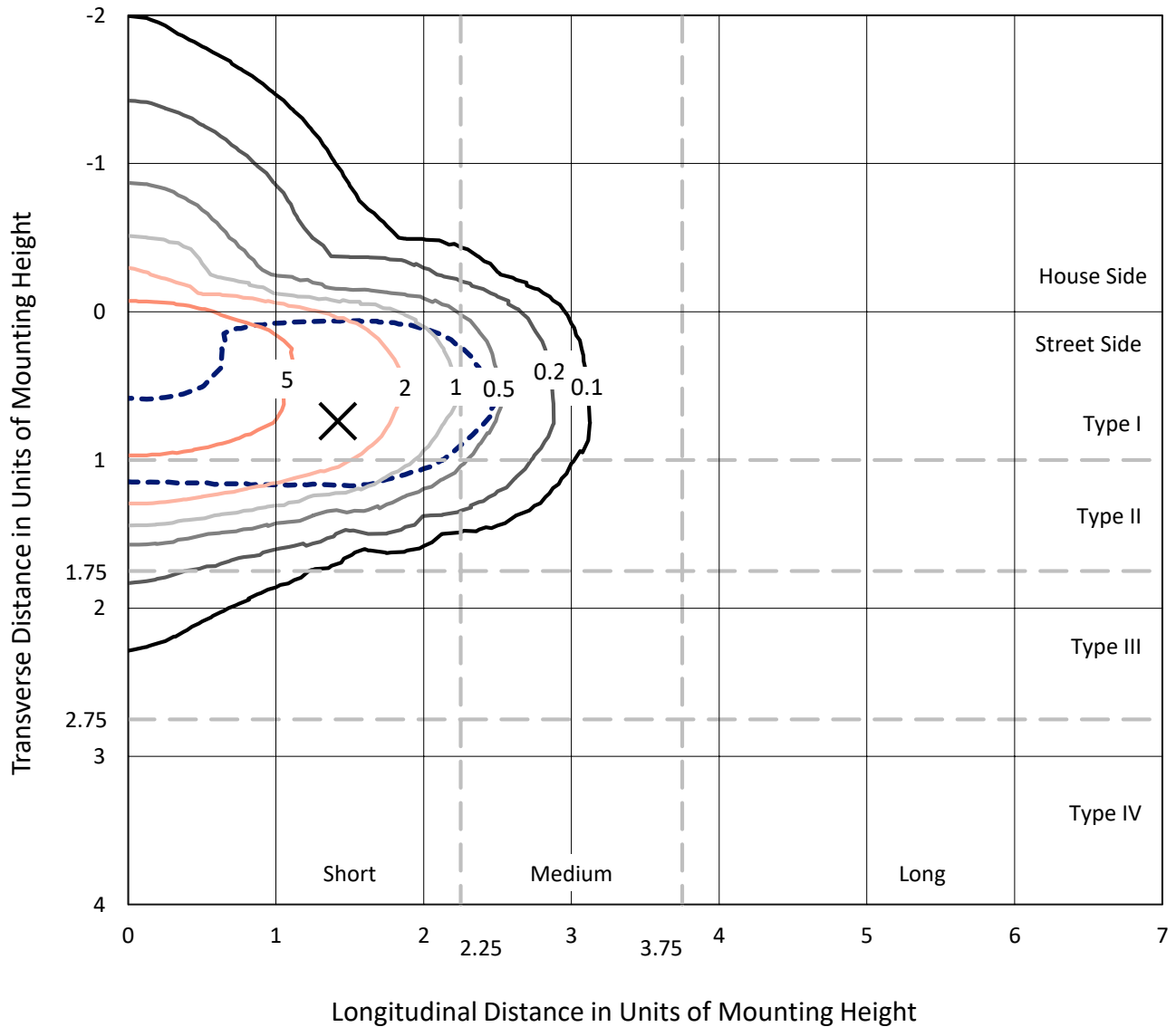


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

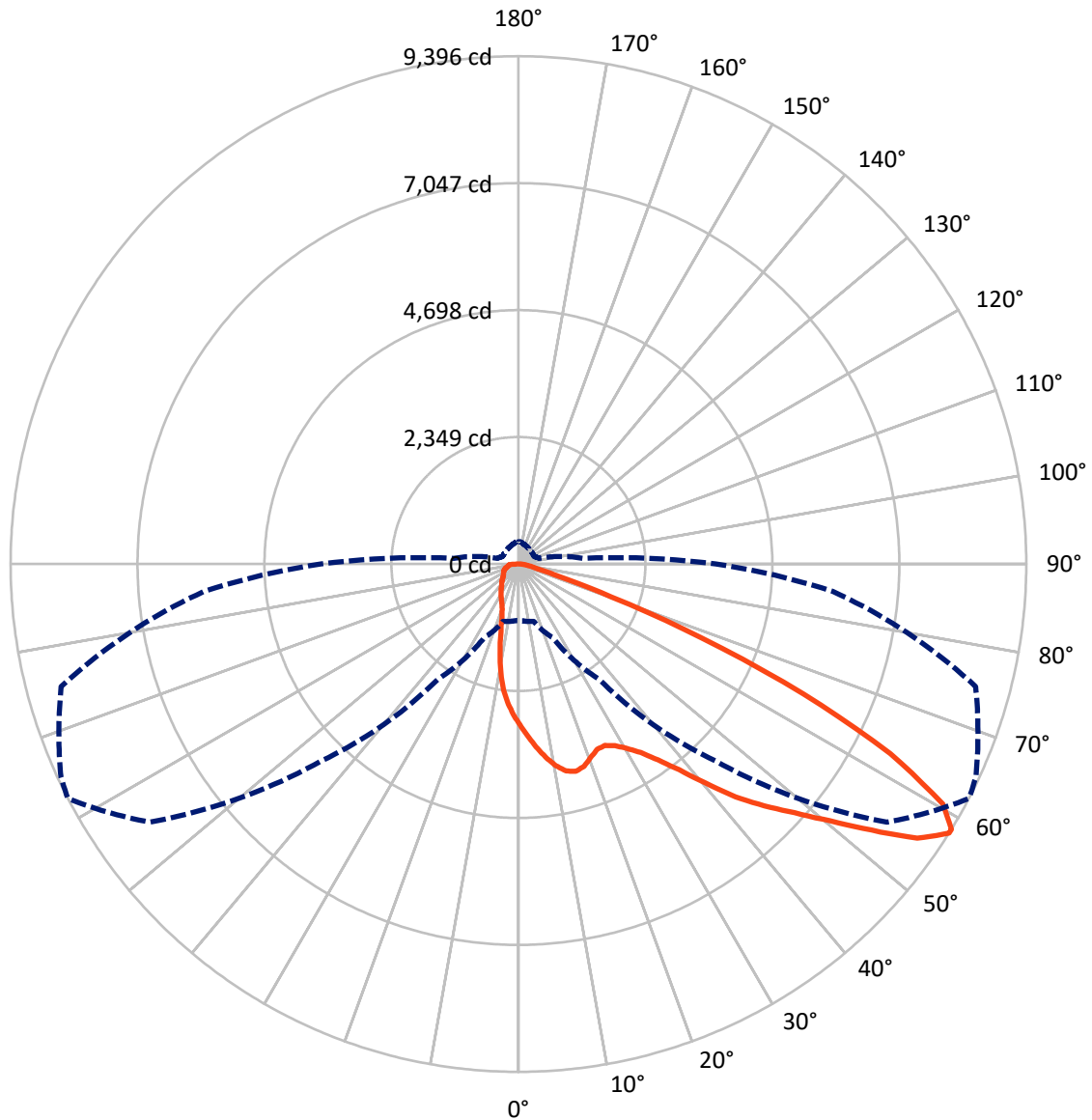


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Full Cutoff

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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	1705.6	0.0	1705.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9478.4	0.0	9478.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	11184.0	0.0	11184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	2.4
10°-20°	679.2	6.1
20°-30°	1097.9	9.8
30°-40°	1742.9	15.6
40°-50°	2550.2	22.8
50°-60°	2667.3	23.8
60°-70°	1575.8	14.1
70°-80°	443.9	4.0
80°-90°	161.2	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°	11184.0	100.0
0°-180°	11184.0	100.0



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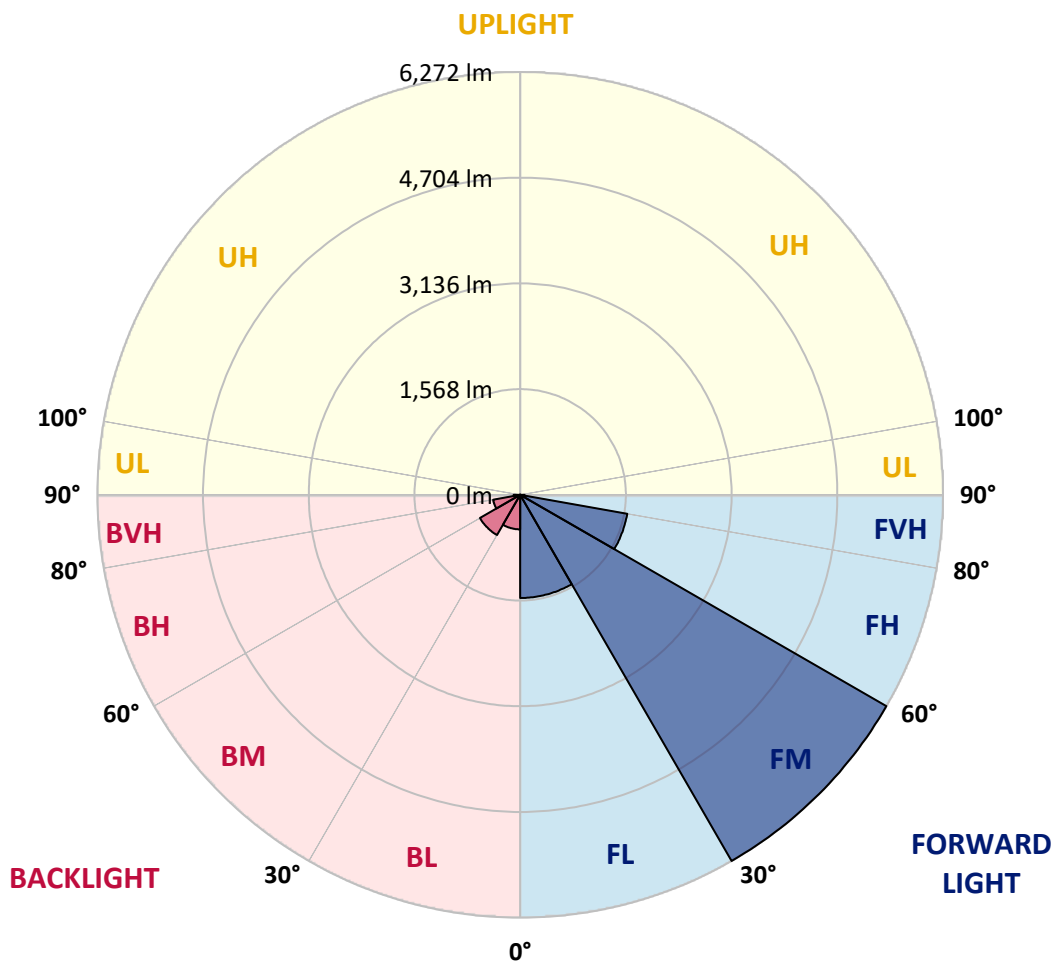
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1530.1	13.7			
FM	(30°-60°)	6271.9	56.1			
FH	(60°-80°)	1612.8	14.4			G1/1800
FVH	(80°-90°)	63.6	0.6			G1/100
BL	(0°-30°)	512.6	4.6	B2/1000		
BM	(30°-60°)	688.4	6.2	B1/1000		
BH	(60°-80°)	407.0	3.6	B1/500		G1/500
BVH	(80°-90°)	97.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8
2.5°	3394.8	3367.4	3350.0	3334.7	3314.7	3272.0	3214.6	3178.3	3159.9	3097.2	3022.9
5°	3727.6	3703.4	3685.5	3664.9	3629.1	3562.2	3469.5	3395.8	3359.5	3234.1	3085.6
7.5°	3649.6	3659.7	3690.7	3745.0	3791.3	3782.4	3699.7	3605.9	3558.0	3383.7	3158.3
10°	3179.9	3197.3	3251.0	3377.9	3583.3	3793.9	3858.2	3793.4	3745.0	3531.7	3233.1
12.5°	3085.6	3085.1	3089.3	3123.0	3245.2	3541.7	3863.5	3928.8	3899.8	3672.8	3309.4
15°	3124.1	3125.1	3121.9	3136.2	3174.1	3291.5	3702.3	3980.9	4001.4	3815.0	3388.4
17.5°	3225.2	3222.5	3210.4	3210.4	3224.1	3269.9	3512.7	3932.5	4027.3	3940.9	3457.9
20°	3394.8	3382.6	3350.5	3321.0	3306.3	3331.0	3434.8	3820.8	3982.5	4050.9	3515.4
22.5°	3600.1	3590.7	3538.5	3475.3	3424.2	3423.7	3474.8	3723.4	3905.1	4154.7	3563.8
25°	3865.6	3850.3	3772.9	3671.8	3582.2	3548.0	3562.2	3718.6	3862.9	4267.4	3607.0
27.5°	4177.3	4149.4	4057.8	3911.9	3780.3	3711.3	3690.7	3804.5	3901.4	4407.0	3667.0
30°	4555.5	4523.3	4405.9	4215.8	4029.9	3916.7	3872.9	3956.7	4028.8	4577.1	3763.4
32.5°	4985.7	4939.4	4803.5	4593.9	4349.6	4176.8	4105.7	4157.9	4215.3	4781.9	3884.0
35°	5580.3	5525.0	5328.6	5039.5	4763.5	4526.0	4412.2	4450.1	4506.0	5087.4	4058.3
37.5°	5985.8	5961.1	5830.5	5558.7	5258.5	4985.2	4809.3	4831.4	4863.0	5469.2	4281.6
40°	5982.2	5992.2	5994.8	5997.4	5793.1	5531.3	5342.3	5319.1	5312.8	5888.4	4535.5
42.5°	5682.5	5723.6	5856.3	6125.4	6249.7	6129.6	5956.3	5889.5	5856.3	6382.4	4804.6
45°	5223.8	5245.9	5494.5	6020.1	6483.5	6722.1	6591.0	6380.3	6320.3	6836.4	5027.9
47.5°	4987.3	5011.5	5168.0	5741.0	6480.9	7200.8	7276.6	6875.3	6767.9	7231.4	5220.6
50°	4424.3	4474.9	4671.9	5255.4	6244.4	7420.9	7993.4	7465.2	7242.9	7615.8	5413.9
52.5°	3390.5	3468.5	3689.1	4457.0	5644.6	7311.9	8566.9	8180.4	7866.5	8013.9	5579.8
55°	2138.7	2196.6	2382.0	3147.8	4515.5	6744.7	8784.4	8954.0	8674.9	8391.0	5723.6
57.5°	1162.8	1188.6	1258.2	1737.9	2937.1	5490.8	8467.4	9394.3	9278.4	8711.2	5832.1
58°	1040.6	1058.0	1101.2	1506.2	2604.8	5148.0	8326.8	9395.9	9337.9	8758.1	5840.5
60°	772.1	763.1	724.7	859.5	1449.9	3556.4	7476.8	9019.8	9189.9	8815.5	5799.4
62.5°	678.3	656.7	578.3	569.3	705.2	1638.4	5720.9	7726.4	8128.2	8487.9	5549.8
65°	637.2	614.1	513.0	480.3	508.7	693.1	3370.0	5794.7	6298.7	7494.7	4911.5
67.5°	606.7	576.7	471.3	426.6	428.7	458.2	1350.8	3649.6	4216.8	5690.4	3820.3
70°	577.2	544.6	436.1	384.5	372.3	362.3	537.2	1826.9	2341.5	3594.3	2435.7
72.5°	545.6	513.5	405.0	351.3	327.6	294.4	350.7	747.3	1043.8	1700.5	1104.9
75°	499.8	470.8	373.9	321.8	288.1	243.8	264.9	390.2	468.2	677.3	532.4
77.5°	443.4	419.7	339.2	297.6	255.4	198.0	203.8	270.7	300.2	387.6	316.5
80°	318.6	327.0	301.8	267.5	227.5	160.6	156.4	197.5	213.3	249.1	205.9
82.5°	223.8	228.6	249.6	218.6	188.0	126.4	115.3	139.0	148.5	163.8	111.1
85°	154.3	149.0	171.2	152.2	135.9	84.3	79.0	94.3	100.1	101.6	57.4
87.5°	92.7	92.7	99.0	81.6	73.2	43.7	42.7	53.7	57.4	54.8	31.6
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°	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8	2970.8
2.5°	2978.7	2941.3	2861.8	2798.1	2717.5	2633.7	2586.9	2536.8	2502.6	2477.9	2517.4
5°	3001.3	2925.0	2760.7	2604.8	2432.6	2253.5	2117.6	1991.2	1903.3	1848.5	1900.1
7.5°	3037.2	2919.7	2658.0	2391.5	2082.4	1784.3	1517.8	1350.8	1253.4	1205.5	1235.5
10°	3078.2	2911.3	2537.4	2102.4	1660.0	1284.5	1085.4	1018.0	995.9	986.9	991.1
12.5°	3112.5	2893.4	2389.4	1752.7	1246.6	1014.3	956.9	955.3	960.1	961.1	962.7
15°	3136.7	2867.1	2169.8	1388.2	996.9	924.3	921.1	930.6	939.5	943.2	945.3
17.5°	3153.0	2812.8	1921.7	1097.5	893.2	880.5	887.9	900.0	909.5	912.1	914.3
20°	3151.4	2733.3	1626.3	915.3	836.8	836.8	849.5	859.0	859.5	856.3	857.9
22.5°	3135.1	2624.3	1339.8	818.4	786.8	795.8	808.4	799.4	762.6	738.4	739.9
25°	3107.7	2494.2	1094.4	756.8	740.5	756.3	752.6	685.2	632.5	608.8	608.8
27.5°	3083.5	2340.4	905.8	703.1	694.1	713.6	648.3	587.2	565.1	554.0	550.3
30°	3066.1	2174.5	780.0	651.5	650.4	636.2	562.5	545.6	541.9	533.0	529.8
32.5°	3070.3	2006.5	699.4	606.2	609.9	544.6	521.4	525.1	521.9	512.4	508.2
35°	3105.1	1846.9	646.7	565.1	554.0	491.9	497.2	504.0	502.9	489.8	485.6
37.5°	3167.2	1695.8	612.0	530.9	483.5	465.6	474.0	484.5	481.9	472.9	469.8
40°	3232.5	1553.6	583.5	504.0	441.9	447.6	455.0	460.8	463.4	466.1	464.0
42.5°	3296.3	1405.1	548.8	476.6	424.5	430.8	434.0	439.7	454.0	464.0	463.4
45°	3334.2	1265.5	513.0	437.6	410.8	414.5	412.4	423.9	441.3	457.7	458.2
47.5°	3376.3	1157.0	484.5	401.8	397.6	400.2	393.9	405.5	421.3	441.3	443.4
50°	3427.4	1092.3	461.9	373.4	379.7	379.7	378.1	388.7	410.8	434.0	438.2
52.5°	3485.3	1079.6	442.9	352.9	361.8	361.3	362.9	378.7	402.9	425.5	429.2
55°	3555.9	1113.9	422.4	337.6	344.4	346.5	351.8	369.7	390.2	416.0	417.6
57.5°	3638.1	1183.4	406.0	325.5	328.6	335.5	343.9	360.2	382.3	410.8	412.4
58°	3651.8	1198.1	403.4	324.4	325.5	333.4	342.8	358.6	380.8	411.8	413.4
60°	3652.3	1247.1	397.6	319.7	313.4	326.5	337.1	352.9	378.1	415.5	419.2
62.5°	3522.7	1246.6	393.4	312.8	300.7	317.0	329.2	347.6	375.5	424.5	431.8
65°	3101.9	1132.8	373.4	302.3	290.7	308.6	322.3	343.9	382.9	463.4	468.2
67.5°	2426.3	928.5	336.0	287.5	277.5	300.2	318.1	343.4	390.8	472.4	475.6
70°	1604.2	694.6	294.9	270.7	263.8	290.2	320.2	361.3	381.8	453.4	445.0
72.5°	832.6	487.7	261.7	249.6	248.0	281.2	350.7	359.2	372.9	426.6	416.0
75°	437.1	338.6	232.8	226.5	229.1	279.1	413.9	349.7	361.3	408.1	428.2
77.5°	267.5	273.3	208.0	205.4	210.7	272.8	413.4	337.6	344.4	375.5	397.6
80°	179.1	221.7	189.1	189.6	193.3	249.6	371.3	318.6	323.9	355.0	377.6
82.5°	113.2	131.1	171.7	180.6	175.9	205.9	315.5	290.2	297.6	406.0	429.2
85°	57.4	82.2	149.0	173.8	158.5	144.3	255.9	254.4	258.1	292.8	306.0
87.5°	26.3	45.3	116.4	151.7	119.5	90.1	185.9	188.5	203.3	208.0	208.0
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)