

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: P200578

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200578
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: GPC-AF-02-LED-E1-AFL-8030-1200
Description: GALLEON PEDESTRIAN 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: 11408 lumens
Efficiency: N/A
Efficacy: 88.4 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 - G1

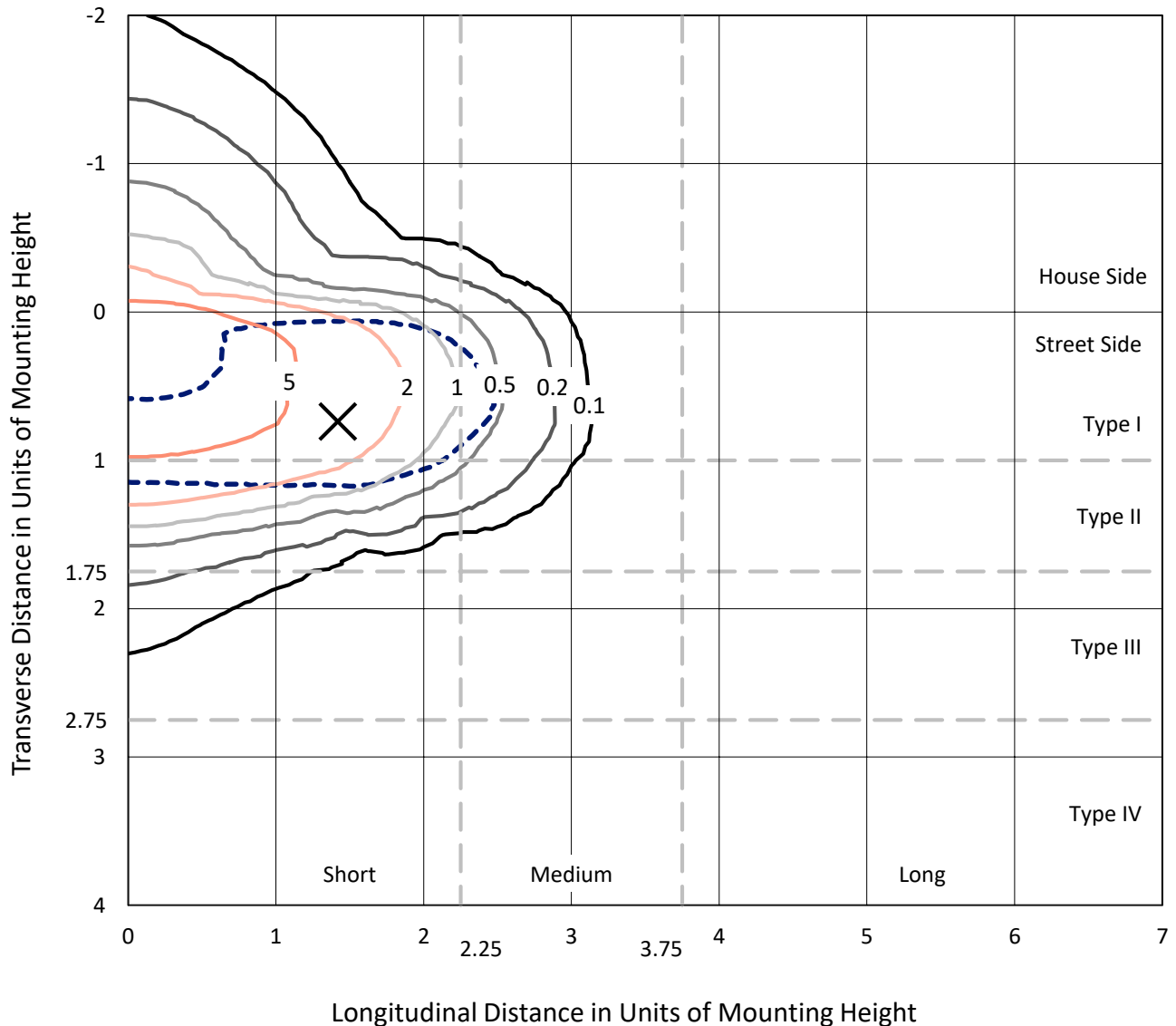
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

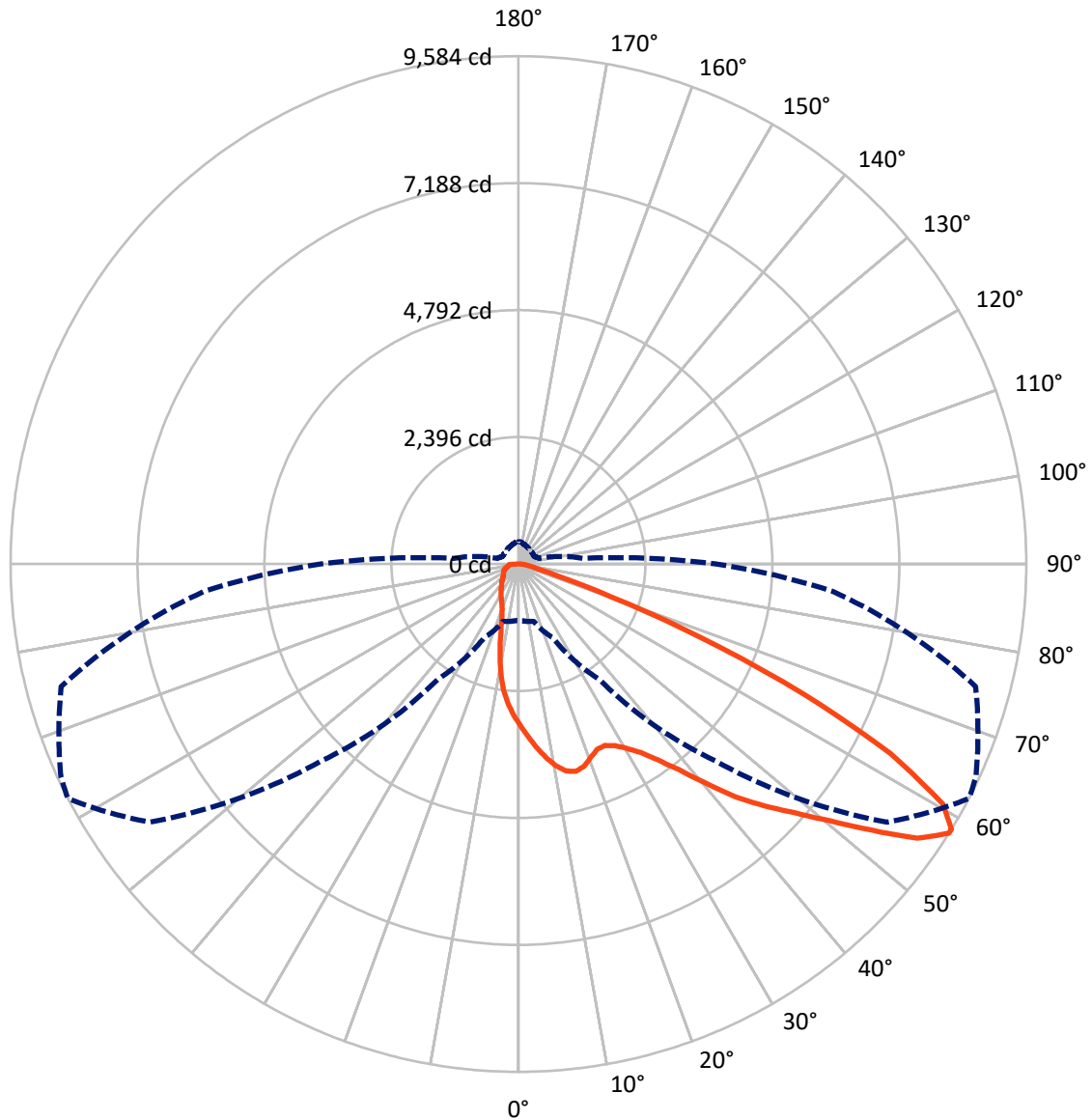
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	1739.8	0.0	1739.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9668.2	0.0	9668.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	11408.0	0.0	11408.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	2.4
10°-20°	692.8	6.1
20°-30°	1119.9	9.8
30°-40°	1777.8	15.6
40°-50°	2601.3	22.8
50°-60°	2720.7	23.8
60°-70°	1607.4	14.1
70°-80°	452.8	4.0
80°-90°	164.4	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°	11408.0	100.0
0°-180°	11408.0	100.0



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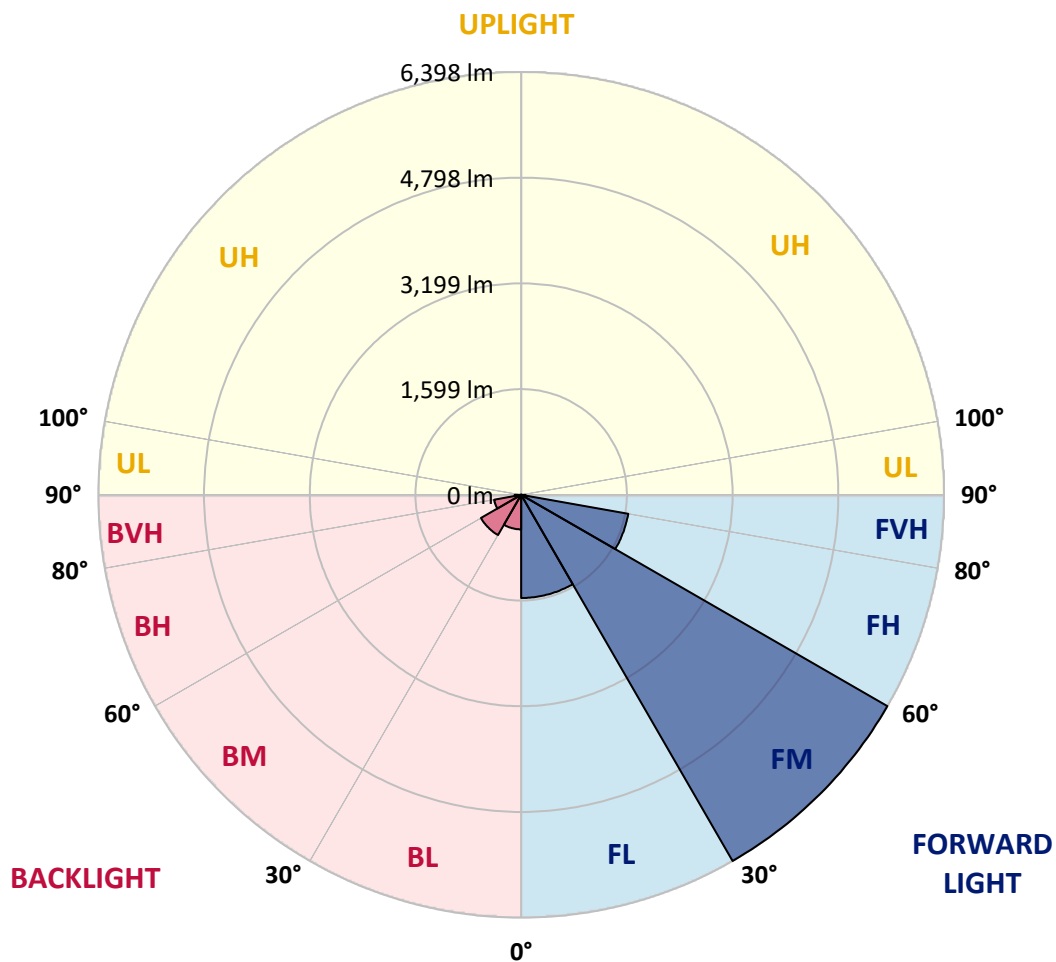
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.8	13.7			
FM	(30°-60°)	6397.5	56.1			
FH	(60°-80°)	1645.1	14.4			G1/1800
FVH	(80°-90°)	64.9	0.6			G1/100
BL	(0°-30°)	522.9	4.6	B2/1000		
BM	(30°-60°)	702.2	6.2	B1/1000		
BH	(60°-80°)	415.1	3.6	B1/500		G1/500
BVH	(80°-90°)	99.5	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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3462.7	3434.8	3417.1	3401.5	3381.1	3337.6	3279.0	3242.0	3223.2	3159.2	3083.5
5°	3802.2	3777.5	3759.3	3738.3	3701.8	3633.6	3539.0	3463.8	3426.8	3298.9	3147.4
7.5°	3722.7	3733.0	3764.6	3820.0	3867.2	3858.1	3773.8	3678.2	3629.3	3451.5	3221.5
10°	3243.6	3261.3	3316.1	3445.6	3655.1	3869.9	3935.5	3869.4	3820.0	3602.4	3297.8
12.5°	3147.4	3146.9	3151.2	3185.6	3310.2	3612.6	3940.8	4007.5	3977.9	3746.4	3375.7
15°	3186.6	3187.7	3184.5	3199.0	3237.7	3357.5	3776.5	4060.6	4081.6	3891.4	3456.3
17.5°	3289.8	3287.1	3274.7	3274.7	3288.7	3335.4	3583.1	4011.2	4107.9	4019.8	3527.2
20°	3462.7	3450.4	3417.6	3387.5	3372.5	3397.7	3503.6	3897.3	4062.2	4132.1	3585.8
22.5°	3672.2	3662.6	3609.4	3544.9	3492.8	3492.3	3544.4	3798.0	3983.3	4237.9	3635.2
25°	3943.0	3927.4	3848.4	3745.3	3654.0	3619.1	3633.6	3793.1	3940.3	4352.9	3679.2
27.5°	4261.0	4232.5	4139.1	3990.3	3856.0	3785.6	3764.6	3880.7	3979.5	4495.2	3740.5
30°	4646.7	4613.9	4494.2	4300.2	4110.6	3995.1	3950.5	4035.9	4109.5	4668.7	3838.8
32.5°	5085.6	5038.3	4899.7	4685.9	4436.7	4260.5	4188.0	4241.1	4299.7	4877.7	3961.8
35°	5692.1	5635.7	5435.3	5140.4	4858.9	4616.6	4500.6	4539.3	4596.2	5189.3	4139.6
37.5°	6105.7	6080.5	5947.3	5670.1	5363.9	5085.1	4905.6	4928.2	4960.4	5578.7	4367.4
40°	6102.0	6112.2	6114.9	6117.5	5909.1	5642.1	5449.3	5425.6	5419.2	6006.3	4626.3
42.5°	5796.3	5838.2	5973.6	6248.1	6374.9	6252.4	6075.6	6007.4	5973.6	6510.2	4900.8
45°	5328.4	5351.0	5604.5	6140.6	6613.4	6856.7	6723.0	6508.1	6446.8	6973.3	5128.6
47.5°	5087.2	5111.9	5271.5	5855.9	6610.7	7345.0	7422.4	7013.0	6903.5	7376.2	5325.2
50°	4513.0	4564.5	4765.4	5360.6	6369.5	7569.6	8153.5	7614.7	7388.0	7768.3	5522.3
52.5°	3458.4	3537.9	3763.0	4546.3	5757.6	7458.4	8738.5	8344.2	8024.0	8174.5	5691.6
55°	2181.5	2240.6	2429.7	3210.8	4605.9	6879.8	8960.4	9133.3	8848.6	8559.1	5838.2
57.5°	1186.1	1212.4	1283.4	1772.7	2995.9	5600.8	8637.0	9582.4	9464.3	8885.7	5948.9
58°	1061.5	1079.2	1123.3	1536.4	2657.0	5251.1	8493.6	9584.1	9525.0	8933.5	5957.5
60°	787.5	778.4	739.2	876.7	1478.9	3627.7	7626.5	9200.5	9374.0	8992.1	5915.6
62.5°	691.9	669.9	589.8	580.7	719.3	1671.2	5835.5	7881.2	8291.0	8657.9	5660.9
65°	650.0	626.4	523.2	489.9	518.9	706.9	3437.5	5910.7	6424.8	7644.8	5009.9
67.5°	618.8	588.2	480.8	435.1	437.3	467.4	1377.9	3722.7	4301.3	5804.4	3896.8
70°	588.8	555.5	444.8	392.2	379.8	369.6	547.9	1863.5	2388.4	3666.3	2484.5
72.5°	556.5	523.8	413.1	358.3	334.1	300.3	357.8	762.3	1064.7	1734.6	1127.0
75°	509.8	480.3	381.4	328.2	293.8	248.7	270.2	398.1	477.6	690.8	543.1
77.5°	452.3	428.1	346.0	303.5	260.5	202.0	207.9	276.1	306.2	395.4	322.9
80°	325.0	333.6	307.8	272.9	232.1	163.8	159.5	201.4	217.6	254.1	210.0
82.5°	228.3	233.1	254.6	222.9	191.8	128.9	117.6	141.8	151.5	167.1	113.3
85°	157.4	152.0	174.6	155.2	138.6	86.0	80.6	96.2	102.1	103.7	58.6
87.5°	94.5	94.5	101.0	83.3	74.7	44.6	43.5	54.8	58.6	55.9	32.2
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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3038.4	3000.2	2919.1	2854.1	2771.9	2686.5	2638.7	2587.7	2552.7	2527.5	2567.8
5°	3061.5	2983.6	2816.0	2657.0	2481.3	2298.6	2160.1	2031.1	1941.4	1885.5	1938.2
7.5°	3098.0	2978.2	2711.2	2439.4	2124.1	1820.0	1548.2	1377.9	1278.5	1229.6	1260.3
10°	3139.9	2969.6	2588.2	2144.5	1693.2	1310.2	1107.2	1038.4	1015.8	1006.7	1011.0
12.5°	3174.8	2951.3	2437.2	1787.8	1271.5	1034.6	976.1	974.5	979.3	980.4	982.0
15°	3199.5	2924.5	2213.2	1416.0	1016.9	942.8	939.5	949.2	958.4	962.1	964.3
17.5°	3216.2	2869.1	1960.2	1119.5	911.1	898.2	905.7	918.1	927.7	930.4	932.6
20°	3214.6	2788.0	1658.9	933.6	853.6	853.6	866.5	876.2	876.7	873.5	875.1
22.5°	3197.9	2676.8	1366.6	834.8	802.6	811.7	824.6	815.5	777.9	753.1	754.8
25°	3170.0	2544.1	1116.3	771.9	755.3	771.4	767.6	698.9	645.2	621.0	621.0
27.5°	3145.3	2387.3	924.0	717.2	708.0	727.9	661.3	599.0	576.4	565.1	561.4
30°	3127.5	2218.1	795.6	664.5	663.4	648.9	573.7	556.5	552.8	543.6	540.4
32.5°	3131.8	2046.7	713.4	618.3	622.1	555.5	531.8	535.6	532.4	522.7	518.4
35°	3167.3	1883.9	659.7	576.4	565.1	501.7	507.1	514.1	513.0	499.6	495.3
37.5°	3230.7	1729.8	624.2	541.5	493.1	474.9	483.5	494.2	491.5	482.4	479.2
40°	3297.3	1584.7	595.2	514.1	450.7	456.6	464.1	470.0	472.7	475.4	473.3
42.5°	3362.3	1433.2	559.8	486.2	433.0	439.4	442.6	448.6	463.1	473.3	472.7
45°	3401.0	1290.9	523.2	446.4	419.0	422.8	420.6	432.4	450.2	466.8	467.4
47.5°	3443.9	1180.2	494.2	409.9	405.6	408.3	401.8	413.6	429.8	450.2	452.3
50°	3496.0	1114.1	471.1	380.9	387.3	387.3	385.7	396.4	419.0	442.6	446.9
52.5°	3555.1	1101.2	451.8	359.9	369.1	368.5	370.1	386.2	411.0	434.1	437.8
55°	3627.1	1136.2	430.8	344.3	351.3	353.5	358.8	377.1	398.1	424.4	426.0
57.5°	3710.9	1207.1	414.2	332.0	335.2	342.2	350.8	367.4	390.0	419.0	420.6
58°	3724.9	1222.1	411.5	330.9	332.0	340.0	349.7	365.8	388.4	420.1	421.7
60°	3725.4	1272.1	405.6	326.1	319.6	333.1	343.8	359.9	385.7	423.8	427.6
62.5°	3593.3	1271.5	401.3	319.1	306.7	323.4	335.7	354.5	383.0	433.0	440.5
65°	3164.1	1155.5	380.9	308.3	296.5	314.8	328.8	350.8	390.5	472.7	477.6
67.5°	2474.8	947.1	342.7	293.3	283.1	306.2	324.5	350.2	398.6	481.9	485.1
70°	1636.3	708.6	300.8	276.1	269.1	296.0	326.6	368.5	389.5	462.5	453.9
72.5°	849.3	497.4	267.0	254.6	253.0	286.9	357.8	366.4	380.3	435.1	424.4
75°	445.9	345.4	237.4	231.0	233.7	284.7	422.2	356.7	368.5	416.3	436.7
77.5°	272.9	278.8	212.2	209.5	214.9	278.3	421.7	344.3	351.3	383.0	405.6
80°	182.6	226.2	192.9	193.4	197.1	254.6	378.7	325.0	330.4	362.1	385.2
82.5°	115.5	133.8	175.1	184.3	179.4	210.0	321.8	296.0	303.5	414.2	437.8
85°	58.6	83.8	152.0	177.3	161.7	147.2	261.1	259.5	263.2	298.7	312.1
87.5°	26.9	46.2	118.7	154.7	121.9	91.9	189.6	192.3	207.4	212.2	212.2
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)