

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: **GPC-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: GPC-AF-02-LED-E1-AFL-7030-800
Description: GALLEON PEDESTRIAN 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: 9959 lumens
Efficiency: N/A
Efficacy: 115.8 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

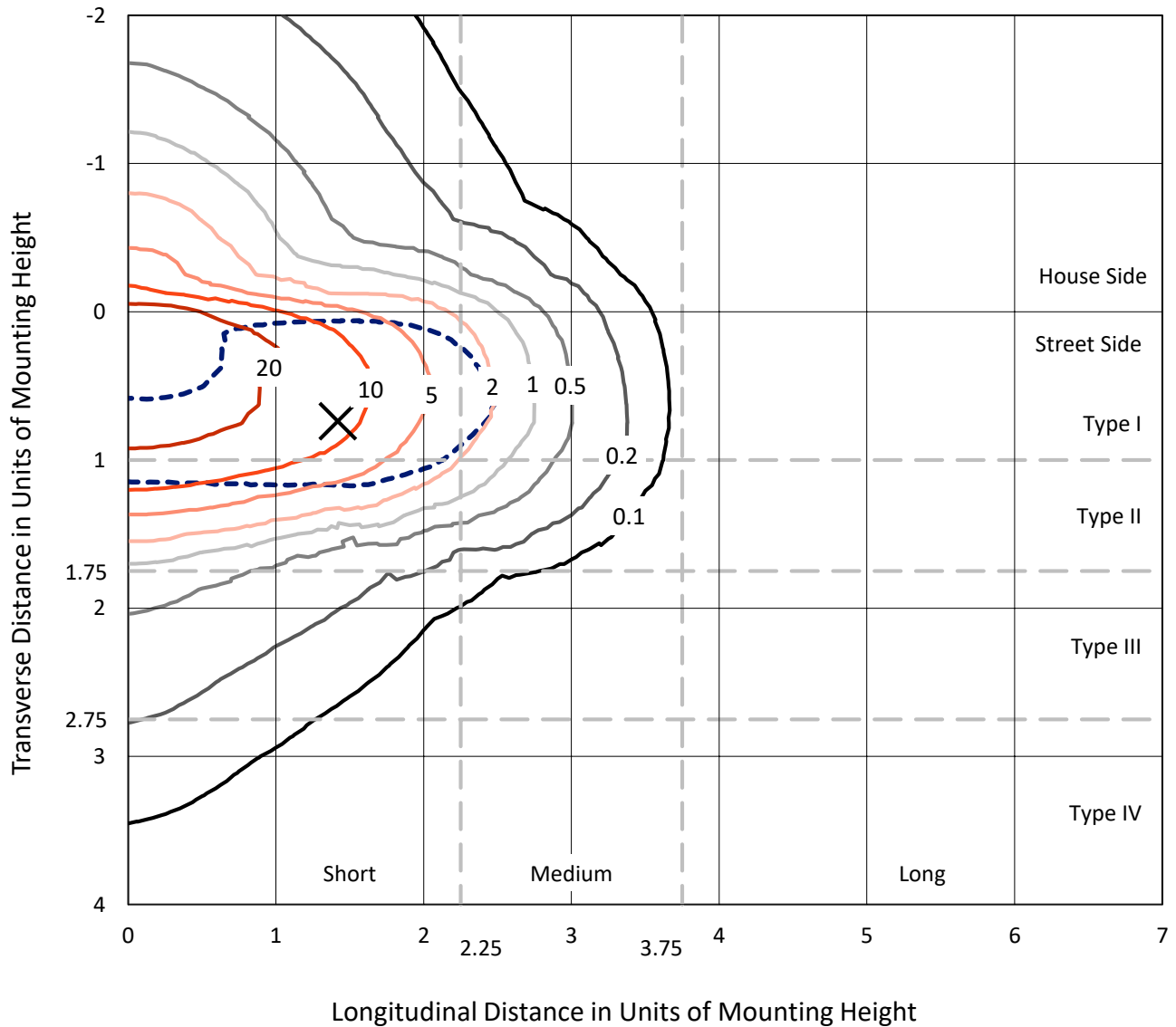
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

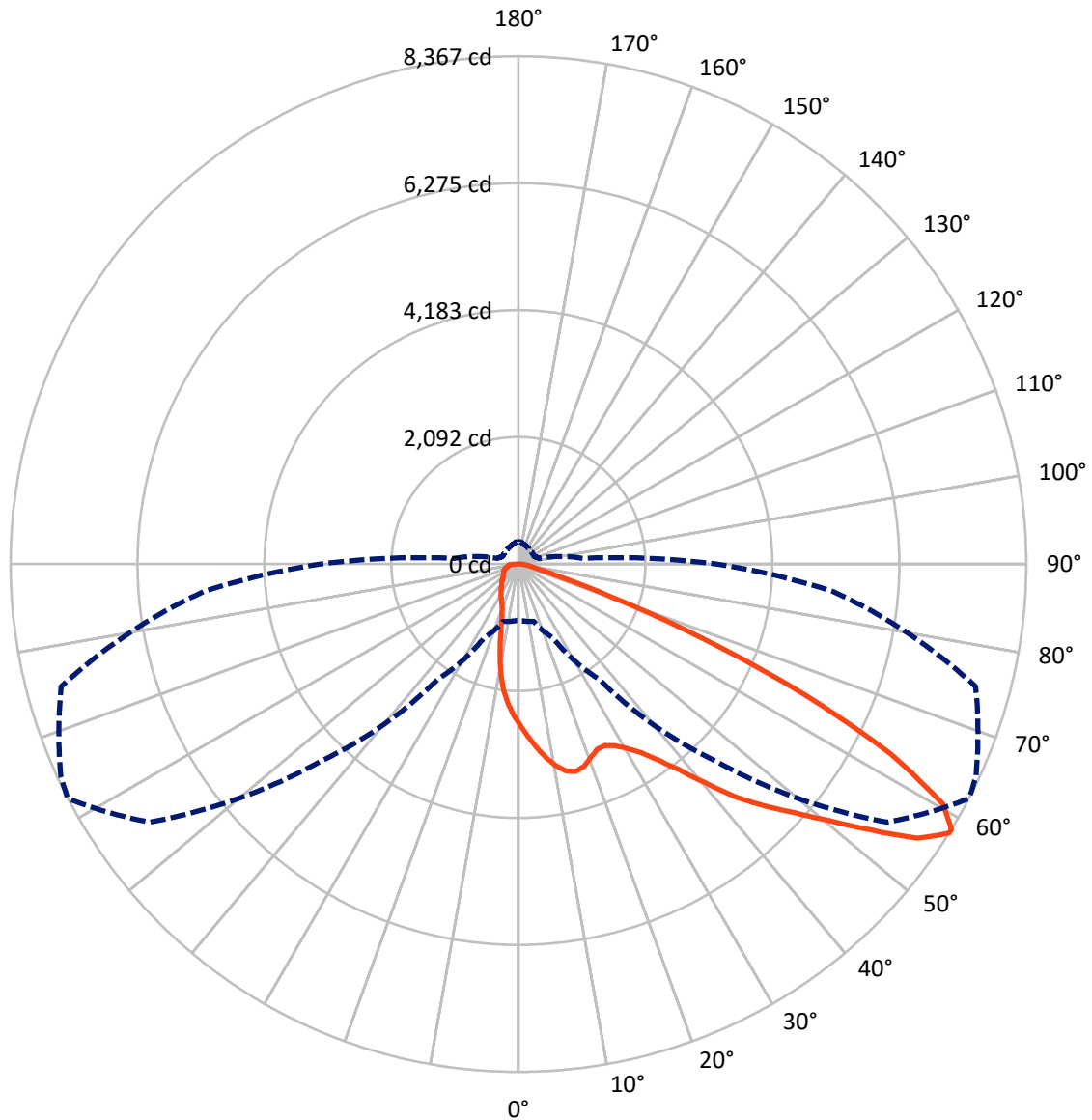
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.2 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	1518.8	0.0	1518.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8440.2	0.0	8440.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	9959.0	0.0	9959.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	2.4
10°-20°	604.8	6.1
20°-30°	977.6	9.8
30°-40°	1552.0	15.6
40°-50°	2270.9	22.8
50°-60°	2375.1	23.8
60°-70°	1403.2	14.1
70°-80°	395.3	4.0
80°-90°	143.5	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°	9959.0	100.0
0°-180°	9959.0	100.0



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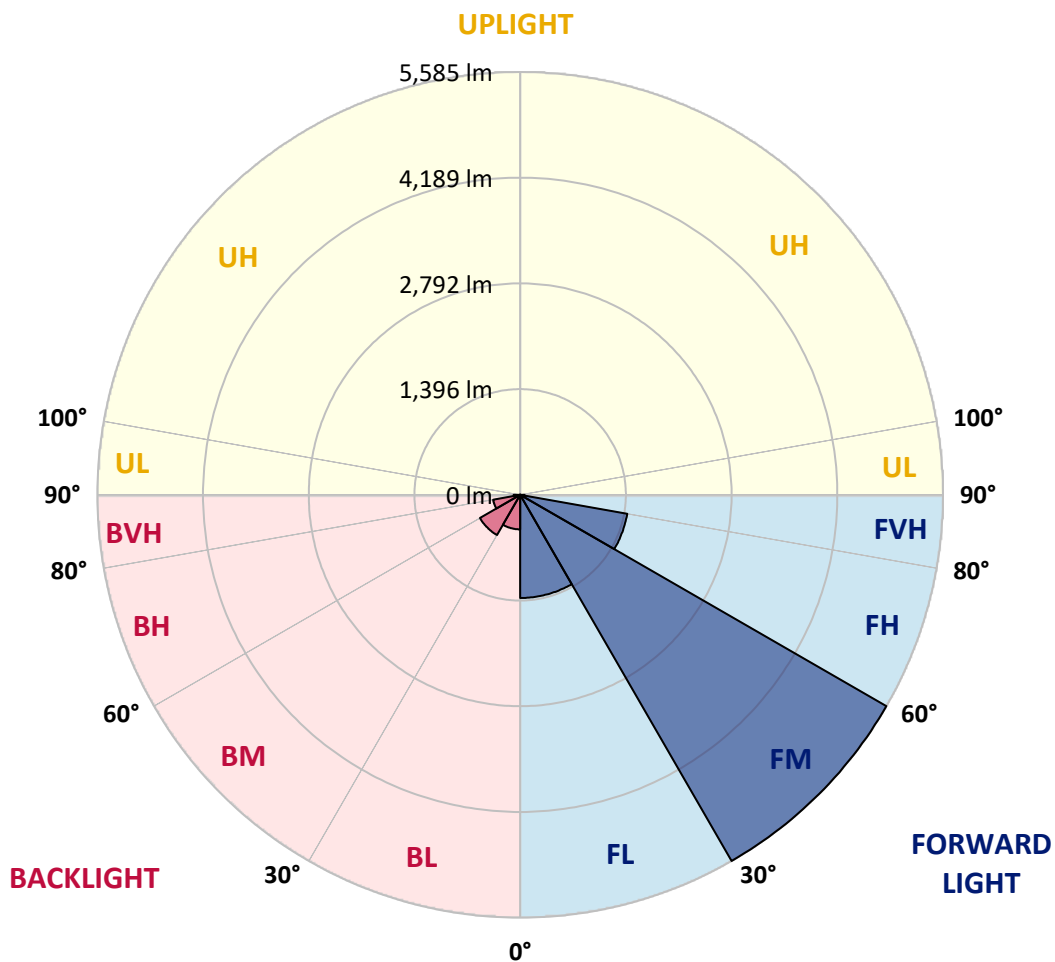
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.5	13.7			
FM	(30°-60°)	5584.9	56.1			
FH	(60°-80°)	1436.1	14.4			G1/1800
FVH	(80°-90°)	56.6	0.6			G1/100
BL	(0°-30°)	456.5	4.6	B1/500		
BM	(30°-60°)	613.0	6.2	B1/1000		
BH	(60°-80°)	362.4	3.6	B1/500		G1/500
BVH	(80°-90°)	86.9	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°	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3
2.5°	3022.8	2998.5	2983.1	2969.4	2951.6	2913.6	2862.5	2830.2	2813.8	2757.9	2691.8
5°	3319.3	3297.8	3281.8	3263.5	3231.6	3172.1	3089.6	3023.9	2991.5	2879.8	2747.7
7.5°	3249.9	3258.7	3286.5	3334.8	3376.0	3368.0	3294.5	3211.0	3168.3	3013.1	2812.4
10°	2831.6	2847.1	2895.0	3007.9	3190.8	3378.4	3435.5	3378.0	3334.8	3144.8	2879.0
12.5°	2747.7	2747.3	2750.9	2780.9	2889.7	3153.8	3440.2	3498.5	3472.7	3270.5	2946.9
15°	2781.8	2782.9	2780.0	2792.6	2826.4	2931.0	3296.8	3544.9	3563.2	3397.1	3017.3
17.5°	2871.9	2869.5	2858.8	2858.8	2871.0	2911.8	3128.0	3501.8	3586.1	3509.2	3079.2
20°	3022.8	3012.2	2983.6	2957.2	2944.1	2966.2	3058.6	3402.4	3546.2	3607.2	3130.3
22.5°	3205.7	3197.4	3150.9	3094.7	3049.2	3048.7	3094.2	3315.6	3477.2	3699.6	3173.4
25°	3442.2	3428.5	3359.6	3269.6	3189.9	3159.3	3172.1	3311.3	3439.8	3799.9	3211.9
27.5°	3719.8	3694.9	3613.3	3483.4	3366.2	3304.8	3286.5	3387.8	3474.0	3924.3	3265.3
30°	4056.5	4027.9	3923.3	3754.0	3588.5	3487.7	3448.8	3523.3	3587.5	4075.7	3351.2
32.5°	4439.6	4398.3	4277.4	4090.7	3873.1	3719.3	3656.1	3702.5	3753.6	4258.2	3458.6
35°	4969.1	4919.8	4744.9	4487.5	4241.8	4030.2	3929.0	3962.8	4012.4	4530.1	3613.7
37.5°	5330.2	5308.2	5191.9	4949.9	4682.6	4439.2	4282.5	4302.2	4330.4	4870.1	3812.6
40°	5326.9	5335.7	5338.2	5340.5	5158.5	4925.5	4757.1	4736.5	4730.8	5243.5	4038.7
42.5°	5060.2	5096.6	5214.8	5454.4	5565.1	5458.3	5303.9	5244.3	5214.8	5683.3	4278.3
45°	4651.6	4671.3	4892.6	5360.7	5773.4	5985.8	5869.1	5681.5	5628.0	6087.6	4477.1
47.5°	4441.1	4462.5	4601.9	5112.1	5771.0	6412.1	6479.6	6122.3	6026.6	6439.3	4648.8
50°	3939.8	3984.8	4160.1	4679.8	5560.4	6608.1	7117.9	6647.6	6449.6	6781.6	4820.9
52.5°	3019.2	3088.5	3285.1	3968.9	5026.3	6511.1	7628.6	7284.4	7004.8	7136.2	4968.7
55°	1904.5	1956.1	2121.0	2802.9	4020.8	6006.0	7822.2	7973.3	7724.7	7471.9	5096.6
57.5°	1035.4	1058.4	1120.4	1547.5	2615.3	4889.4	7540.0	8365.3	8262.0	7757.1	5193.3
58°	926.6	942.2	980.6	1341.2	2319.5	4584.1	7414.8	8366.7	8315.0	7798.8	5200.7
60°	687.5	679.5	645.2	765.4	1291.0	3166.9	6657.8	8031.8	8183.3	7849.9	5164.1
62.5°	603.9	584.7	514.9	507.0	627.9	1458.9	5094.3	6880.0	7237.9	7558.2	4941.9
65°	567.5	546.9	456.8	427.6	453.0	617.1	3001.0	5160.0	5608.8	6673.8	4373.5
67.5°	540.3	513.5	419.7	379.9	381.8	408.0	1202.8	3249.9	3754.9	5067.1	3401.8
70°	513.9	484.9	388.3	342.3	331.6	322.7	478.3	1626.9	2085.0	3200.6	2168.9
72.5°	485.8	457.2	360.7	312.8	291.7	262.1	312.4	665.5	929.5	1514.3	983.9
75°	445.0	419.2	332.9	286.6	256.5	217.1	235.9	347.5	417.0	603.1	474.0
77.5°	394.9	373.7	302.0	265.0	227.5	176.4	181.5	241.0	267.3	345.2	281.9
80°	283.7	291.1	268.7	238.1	202.5	143.0	139.3	175.9	189.9	221.8	183.3
82.5°	199.3	203.5	222.3	194.6	167.3	112.5	102.7	123.8	132.2	145.9	99.0
85°	137.4	132.8	152.4	135.5	121.0	75.1	70.4	83.9	89.1	90.4	51.2
87.5°	82.5	82.5	88.2	72.6	65.2	38.9	38.0	47.8	51.2	48.7	28.2
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°	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3	2645.3
2.5°	2652.5	2619.2	2548.4	2491.5	2419.9	2345.2	2303.5	2258.9	2228.5	2206.5	2241.7
5°	2672.6	2604.6	2458.4	2319.5	2166.2	2006.6	1885.7	1773.2	1694.8	1646.1	1692.0
7.5°	2704.5	2600.0	2366.9	2129.6	1854.2	1588.8	1351.5	1202.8	1116.1	1073.5	1100.1
10°	2741.1	2592.4	2259.5	1872.0	1478.2	1143.8	966.5	906.6	886.7	878.9	882.6
12.5°	2771.6	2576.5	2127.8	1560.7	1110.1	903.2	852.1	850.7	855.0	855.8	857.2
15°	2793.1	2553.1	1932.1	1236.2	887.7	823.0	820.2	828.6	836.6	839.8	841.8
17.5°	2807.6	2504.7	1711.2	977.4	795.4	784.2	790.7	801.4	809.9	812.3	814.1
20°	2806.3	2433.9	1448.1	815.1	745.1	745.1	756.4	765.0	765.4	762.5	763.9
22.5°	2791.7	2336.8	1193.0	728.8	700.7	708.5	719.8	712.0	679.0	657.5	659.0
25°	2767.3	2221.0	974.5	673.9	659.4	673.5	670.2	610.1	563.2	542.2	542.2
27.5°	2745.8	2084.0	806.7	626.0	618.1	635.5	577.3	523.0	503.2	493.3	490.0
30°	2730.3	1936.3	694.6	580.0	579.2	566.5	500.9	485.8	482.6	474.6	471.8
32.5°	2734.0	1786.7	622.8	539.7	543.0	484.9	464.3	467.5	464.8	456.2	452.6
35°	2765.1	1644.7	575.9	503.2	493.3	438.0	442.7	448.8	447.9	436.2	432.3
37.5°	2820.3	1510.1	544.9	472.8	430.5	414.5	422.1	431.5	429.1	421.0	418.4
40°	2878.4	1383.4	519.6	448.8	393.5	398.6	405.2	410.4	412.7	415.0	413.1
42.5°	2935.2	1251.2	488.6	424.4	377.9	383.6	386.4	391.5	404.3	413.1	412.7
45°	2969.0	1126.9	456.8	389.7	365.8	369.1	367.2	377.5	393.0	407.5	408.0
47.5°	3006.5	1030.4	431.5	357.9	354.1	356.4	350.8	361.1	375.2	393.0	394.9
50°	3051.9	972.6	411.3	332.4	338.1	338.1	336.7	346.2	365.8	386.4	390.2
52.5°	3103.6	961.4	394.4	314.2	322.2	321.7	323.1	337.2	358.8	378.9	382.2
55°	3166.5	991.8	376.1	300.6	306.7	308.5	313.2	329.2	347.5	370.5	371.9
57.5°	3239.5	1053.8	361.5	289.9	292.6	298.8	306.3	320.7	340.5	365.8	367.2
58°	3251.8	1066.9	359.3	288.9	289.9	296.8	305.3	319.4	339.0	366.7	368.1
60°	3252.2	1110.5	354.1	284.6	279.0	290.7	300.1	314.2	336.7	370.1	373.3
62.5°	3136.9	1110.1	350.2	278.6	267.8	282.3	293.2	309.5	334.4	377.9	384.6
65°	2762.2	1008.7	332.4	269.3	258.8	274.8	287.1	306.3	340.9	412.7	417.0
67.5°	2160.5	826.8	299.2	256.1	247.2	267.3	283.2	305.7	348.0	420.6	423.5
70°	1428.4	618.5	262.7	241.0	234.9	258.4	285.1	321.7	340.1	403.8	396.3
72.5°	741.5	434.3	233.0	222.3	220.9	250.4	312.4	319.8	332.0	379.9	370.5
75°	389.3	301.5	207.3	201.7	204.0	248.6	368.6	311.4	321.7	363.4	381.4
77.5°	238.1	243.4	185.2	182.9	187.6	242.9	368.1	300.6	306.7	334.4	354.1
80°	159.4	197.4	168.4	168.8	172.1	222.3	330.6	283.7	288.5	316.1	336.2
82.5°	100.8	116.8	152.9	160.8	156.7	183.3	280.9	258.4	265.0	361.5	382.2
85°	51.2	73.2	132.8	154.7	141.2	128.5	228.0	226.5	229.8	260.7	272.5
87.5°	23.5	40.3	103.7	135.1	106.4	80.2	165.5	167.9	181.1	185.2	185.2
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)