

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: P200254

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200254
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-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10297 lumens
Efficiency: N/A
Efficacy: 119.7 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

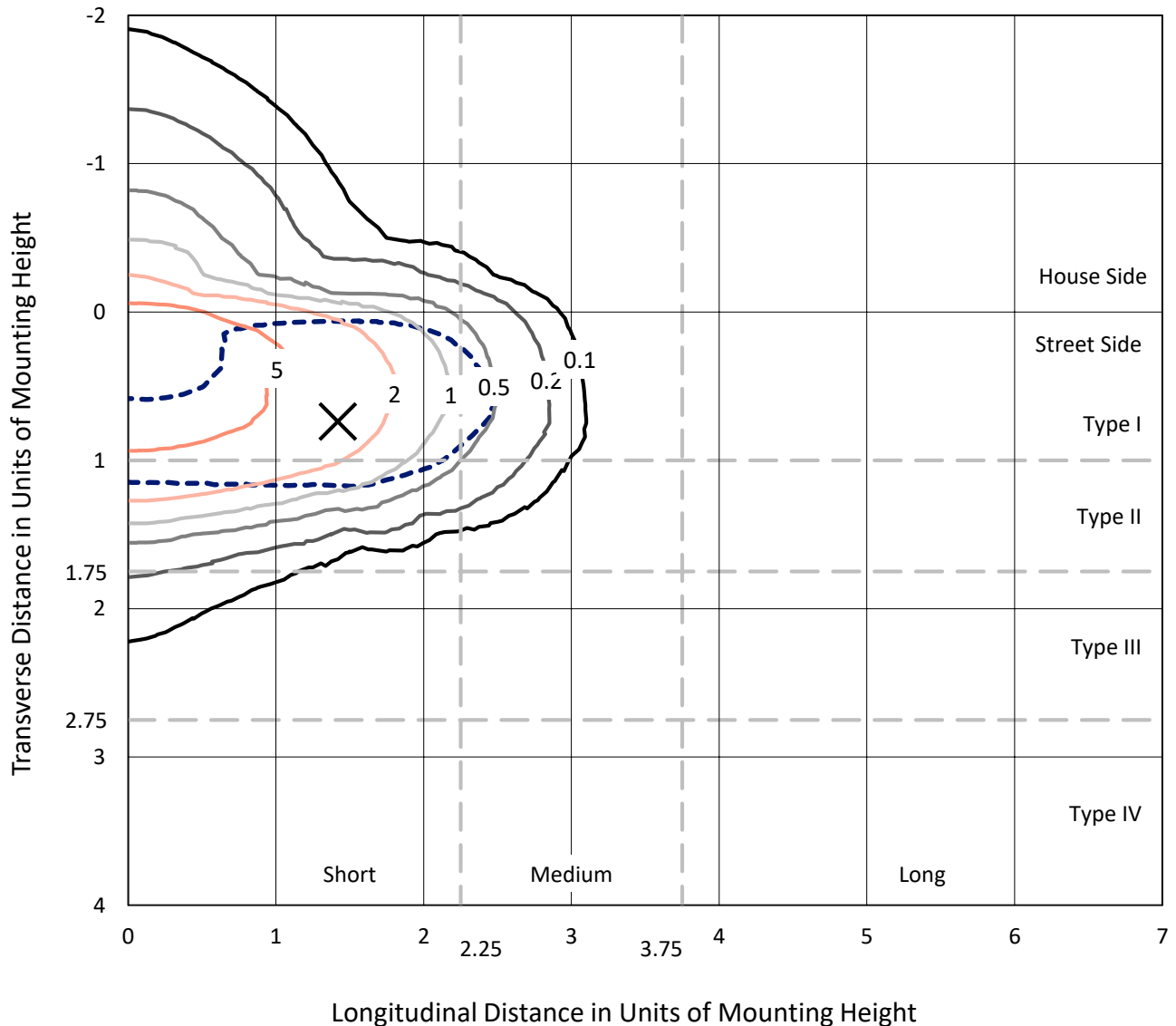
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

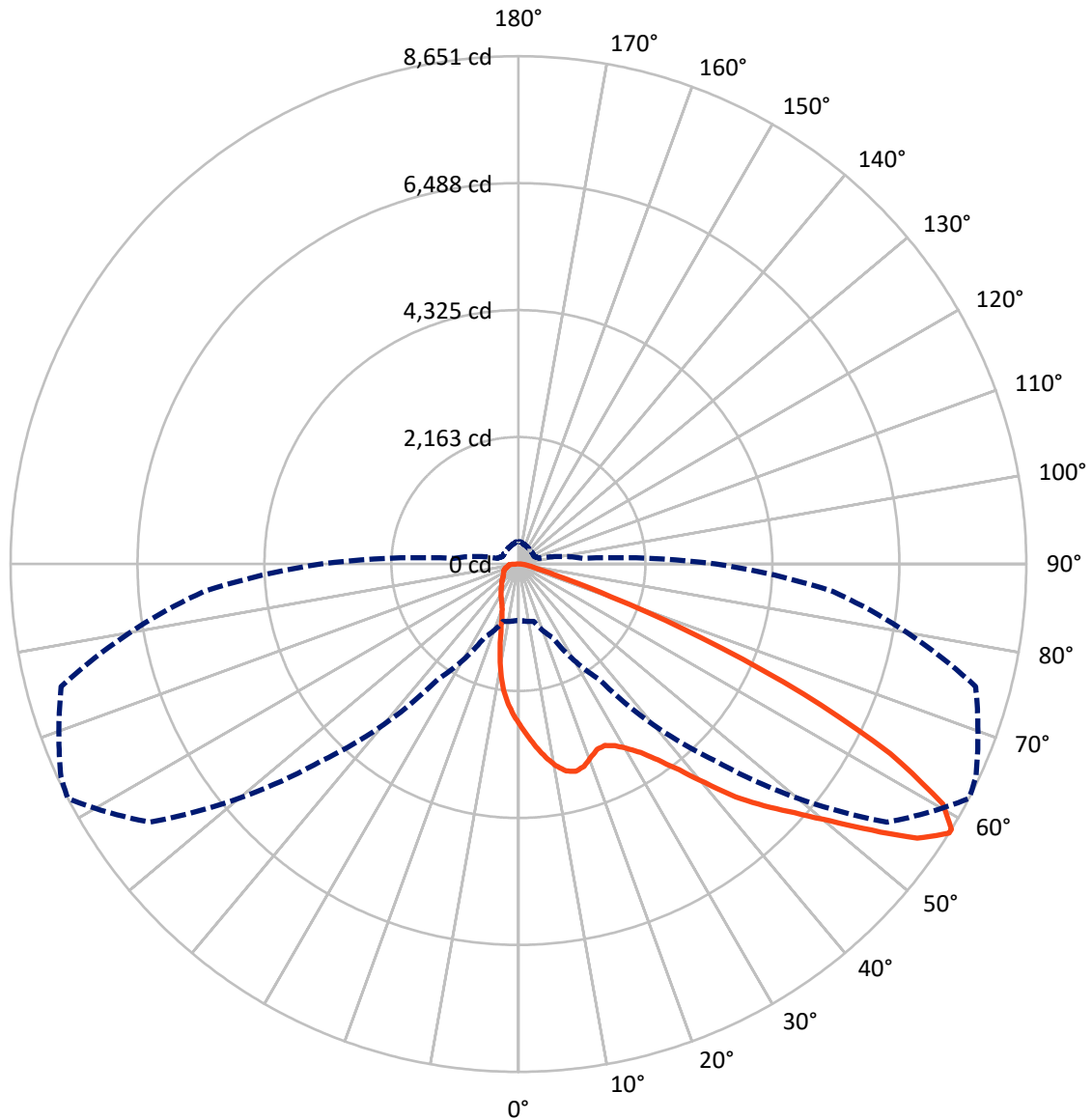
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	1570.3	0.0	1570.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8726.7	0.0	8726.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	10297.0	0.0	10297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	2.4
10°-20°	625.3	6.1
20°-30°	1010.8	9.8
30°-40°	1604.6	15.6
40°-50°	2347.9	22.8
50°-60°	2455.7	23.8
60°-70°	1450.9	14.1
70°-80°	408.7	4.0
80°-90°	148.4	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°	10297.0	100.0
0°-180°	10297.0	100.0

Coefficient of Utilization



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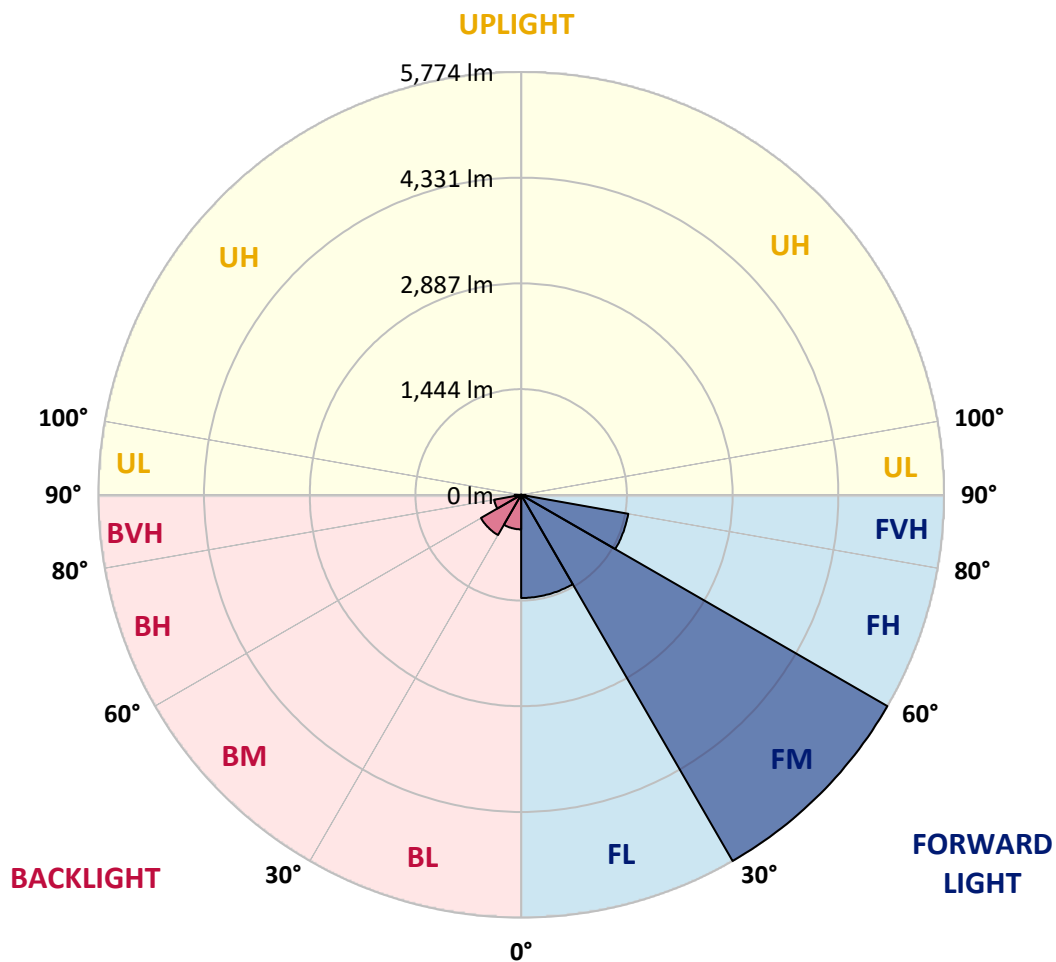
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1408.8	13.7			
FM	(30°-60°)	5774.5	56.1			
FH	(60°-80°)	1484.9	14.4			G1/1800
FVH	(80°-90°)	58.5	0.6			G1/100
BL	(0°-30°)	472.0	4.6	B1/500		
BM	(30°-60°)	633.8	6.2	B1/1000		
BH	(60°-80°)	374.7	3.6	B1/500		G1/500
BVH	(80°-90°)	89.8	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°	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2
2.5°	3125.5	3100.3	3084.3	3070.2	3051.8	3012.5	2959.7	2926.2	2909.3	2851.6	2783.2
5°	3432.0	3409.7	3393.2	3374.3	3341.3	3279.7	3194.4	3126.5	3093.0	2977.6	2840.9
7.5°	3360.2	3369.4	3398.0	3448.0	3490.6	3482.4	3406.3	3319.9	3275.8	3115.3	2907.8
10°	2927.7	2943.7	2993.1	3110.0	3299.1	3493.1	3552.2	3492.6	3448.0	3251.6	2976.7
12.5°	2840.9	2840.4	2844.3	2875.3	2987.8	3260.8	3557.1	3617.2	3590.5	3381.5	3047.0
15°	2876.3	2877.3	2874.3	2887.4	2922.4	3030.5	3408.7	3665.2	3684.1	3512.4	3119.7
17.5°	2969.4	2967.0	2955.8	2955.8	2968.4	3010.6	3234.1	3620.6	3707.9	3628.3	3183.7
20°	3125.5	3114.4	3084.8	3057.6	3044.1	3066.8	3162.4	3517.8	3666.6	3729.7	3236.6
22.5°	3314.6	3305.9	3257.9	3199.7	3152.7	3152.2	3199.2	3428.1	3595.4	3825.2	3281.2
25°	3559.0	3544.9	3473.7	3380.6	3298.1	3266.6	3279.7	3423.7	3556.6	3929.0	3320.9
27.5°	3846.0	3820.3	3736.0	3601.7	3480.4	3416.9	3398.0	3502.7	3592.0	4057.4	3376.2
30°	4194.2	4164.6	4056.5	3881.4	3710.3	3606.0	3565.8	3642.9	3709.3	4214.1	3464.9
32.5°	4590.3	4547.7	4422.6	4229.6	4004.6	3845.6	3780.1	3828.1	3881.0	4402.7	3576.0
35°	5137.8	5086.8	4906.0	4639.8	4385.7	4167.0	4062.3	4097.2	4148.6	4683.9	3736.5
37.5°	5511.1	5488.3	5368.1	5117.9	4841.5	4589.8	4427.9	4448.3	4477.3	5035.4	3942.0
40°	5507.7	5516.9	5519.3	5521.8	5333.6	5092.7	4918.6	4897.3	4891.4	5421.4	4175.8
42.5°	5231.8	5269.6	5391.8	5639.6	5754.0	5643.5	5484.0	5422.4	5391.8	5876.2	4423.5
45°	4809.5	4829.9	5058.7	5542.6	5969.3	6189.0	6068.2	5874.3	5819.0	6294.2	4629.1
47.5°	4591.8	4614.1	4758.1	5285.6	5966.9	6629.7	6699.5	6330.1	6231.1	6657.8	4806.6
50°	4073.4	4120.0	4301.3	4838.6	5749.2	6832.4	7359.5	6873.1	6668.5	7011.8	4984.5
52.5°	3121.6	3193.4	3396.6	4103.5	5196.9	6732.0	7887.5	7531.6	7242.6	7378.4	5137.3
55°	1969.1	2022.4	2193.1	2898.1	4157.3	6209.8	8087.7	8243.9	7986.9	7725.5	5269.6
57.5°	1070.6	1094.4	1158.4	1600.1	2704.2	5055.3	7795.8	8649.2	8542.6	8020.3	5369.5
58°	958.1	974.1	1013.9	1386.7	2398.2	4739.7	7666.4	8650.7	8597.3	8063.5	5377.3
60°	710.8	702.6	667.2	791.3	1334.9	3274.4	6883.8	8304.5	8461.1	8116.3	5339.5
62.5°	624.5	604.6	532.4	524.2	649.2	1508.5	5267.2	7113.6	7483.6	7814.8	5109.6
65°	586.7	565.4	472.3	442.2	468.4	638.1	3102.7	5335.1	5799.1	6900.3	4522.0
67.5°	558.6	530.9	434.0	392.7	394.7	421.8	1243.7	3360.2	3882.4	5239.1	3517.3
70°	531.4	501.4	401.5	354.0	342.8	333.6	494.6	1682.0	2155.8	3309.3	2242.6
72.5°	502.3	472.8	372.9	323.4	301.6	271.0	322.9	688.0	961.0	1565.7	1017.3
75°	460.1	433.5	344.3	296.3	265.2	224.5	243.9	359.3	431.1	623.6	490.2
77.5°	408.3	386.4	312.3	274.0	235.2	182.3	187.6	249.2	276.4	356.9	291.4
80°	293.4	301.1	277.8	246.3	209.5	147.9	144.0	181.8	196.4	229.3	189.6
82.5°	206.1	210.4	229.8	201.2	173.1	116.4	106.2	128.0	136.7	150.8	102.3
85°	142.1	137.2	157.6	140.1	125.1	77.6	72.7	86.8	92.1	93.6	52.9
87.5°	85.3	85.3	91.2	75.2	67.4	40.2	39.3	49.5	52.9	50.4	29.1
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°	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2	2735.2
2.5°	2742.5	2708.0	2634.8	2576.1	2502.0	2424.9	2381.7	2335.7	2304.1	2281.3	2317.7
5°	2763.3	2693.0	2541.7	2398.2	2239.6	2074.8	1949.7	1833.3	1752.3	1701.9	1749.4
7.5°	2796.3	2688.2	2447.2	2201.8	1917.2	1642.8	1397.4	1243.7	1154.0	1109.9	1137.5
10°	2834.1	2680.4	2336.1	1935.6	1528.3	1182.6	999.3	937.3	916.9	908.7	912.5
12.5°	2865.6	2663.9	2199.9	1613.7	1147.7	933.9	881.0	879.6	883.9	884.9	886.4
15°	2887.9	2639.7	1997.7	1278.1	917.9	851.0	848.0	856.8	865.0	868.4	870.4
17.5°	2903.0	2589.7	1769.3	1010.5	822.4	810.7	817.5	828.7	837.4	839.8	841.7
20°	2901.5	2516.5	1497.3	842.7	770.5	770.5	782.1	790.8	791.3	788.4	789.9
22.5°	2886.5	2416.1	1233.5	753.5	724.4	732.6	744.3	736.0	702.1	679.8	681.3
25°	2861.3	2296.4	1007.6	696.8	681.7	696.3	692.9	630.8	582.3	560.5	560.5
27.5°	2839.0	2154.8	834.0	647.3	639.1	657.0	596.9	540.6	520.3	510.1	506.7
30°	2823.0	2002.1	718.1	599.8	598.8	585.7	517.8	502.3	498.9	490.7	487.8
32.5°	2826.8	1847.4	643.9	558.1	561.5	501.4	480.0	483.4	480.5	471.8	467.9
35°	2858.8	1700.5	595.4	520.3	510.1	452.9	457.7	464.0	463.1	450.9	447.1
37.5°	2916.0	1561.3	563.4	488.8	445.1	428.6	436.4	446.1	443.7	435.4	432.5
40°	2976.2	1430.4	537.2	464.0	406.8	412.1	418.9	424.3	426.7	429.1	427.2
42.5°	3034.8	1293.7	505.2	438.8	390.8	396.6	399.5	404.9	418.0	427.2	426.7
45°	3069.8	1165.2	472.3	402.9	378.2	381.6	379.7	390.3	406.3	421.4	421.8
47.5°	3108.5	1065.3	446.1	370.0	366.1	368.5	362.7	373.4	387.9	406.3	408.3
50°	3155.6	1005.6	425.2	343.8	349.6	349.6	348.1	357.8	378.2	399.5	403.4
52.5°	3208.9	994.0	407.8	324.9	333.1	332.6	334.1	348.6	370.9	391.8	395.2
55°	3273.9	1025.5	388.9	310.8	317.1	319.0	323.9	340.4	359.3	383.1	384.5
57.5°	3349.5	1089.5	373.8	299.7	302.6	308.9	316.6	331.7	352.0	378.2	379.7
58°	3362.1	1103.1	371.4	298.7	299.7	306.9	315.7	330.2	350.6	379.2	380.6
60°	3362.6	1148.2	366.1	294.3	288.5	300.6	310.3	324.9	348.1	382.6	386.0
62.5°	3243.3	1147.7	362.2	288.0	276.9	291.9	303.0	320.0	345.7	390.8	397.6
65°	2855.9	1043.0	343.8	278.3	267.7	284.1	296.7	316.6	352.5	426.7	431.1
67.5°	2233.8	854.8	309.4	264.7	255.5	276.4	292.9	316.1	359.8	434.9	437.8
70°	1476.9	639.6	271.5	249.2	242.9	267.2	294.8	332.6	351.5	417.5	409.7
72.5°	766.6	449.0	241.0	229.8	228.4	258.9	322.9	330.7	343.3	392.7	383.1
75°	402.4	311.8	214.3	208.5	210.9	257.0	381.1	322.0	332.6	375.8	394.2
77.5°	246.3	251.7	191.5	189.1	194.0	251.2	380.6	310.8	317.1	345.7	366.1
80°	164.9	204.1	174.1	174.6	177.9	229.8	341.8	293.4	298.2	326.8	347.7
82.5°	104.2	120.7	158.1	166.3	161.9	189.6	290.4	267.2	274.0	373.8	395.2
85°	52.9	75.6	137.2	160.0	145.9	132.9	235.6	234.2	237.6	269.6	281.7
87.5°	24.2	41.7	107.2	139.6	110.1	82.9	171.2	173.6	187.2	191.5	191.5
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)