

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: P200574

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200574
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-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 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: 8402 lumens
Efficiency: N/A
Efficacy: 97.7 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

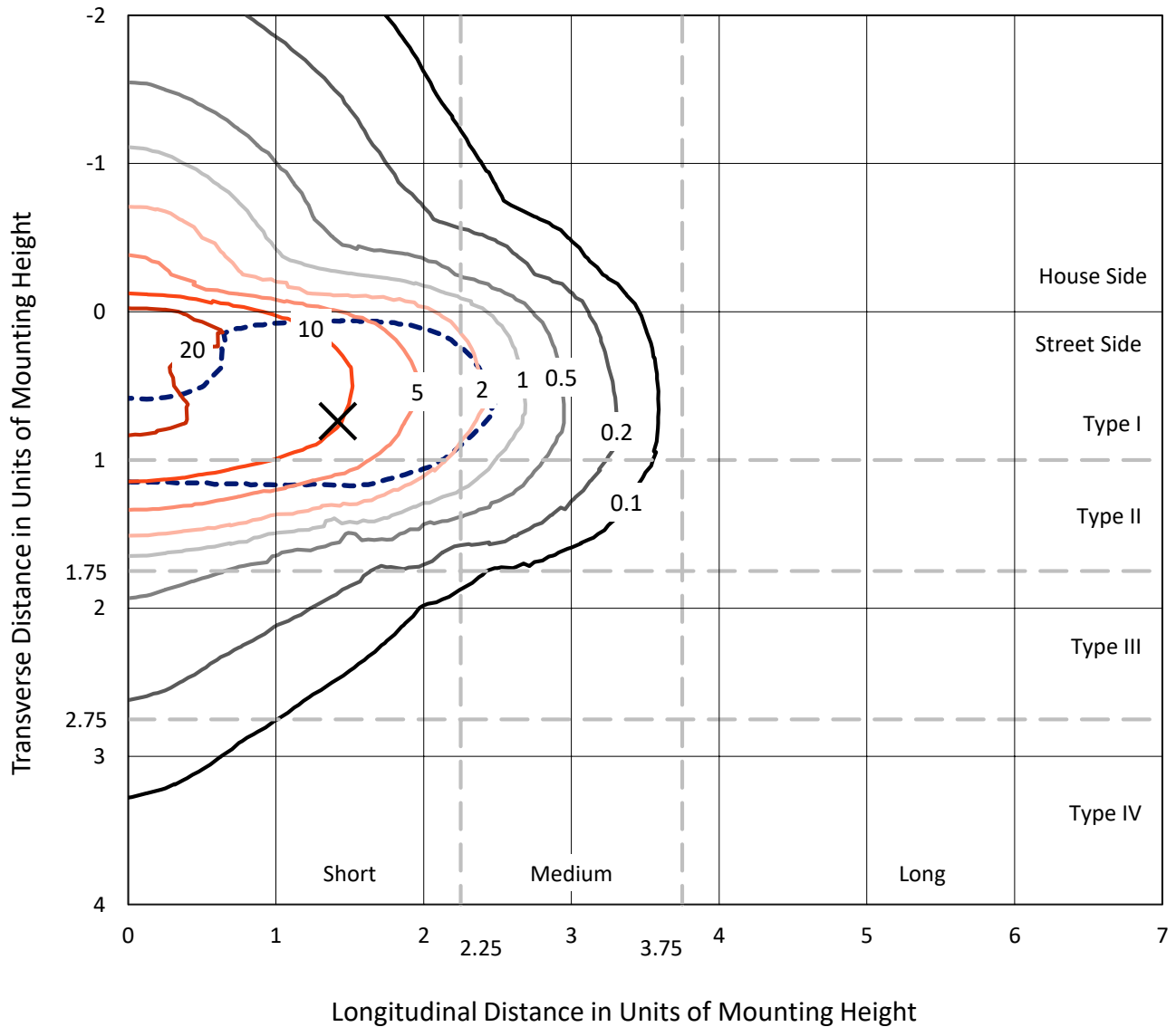


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Iso-Footcandle Lines of Horizontal Illumination

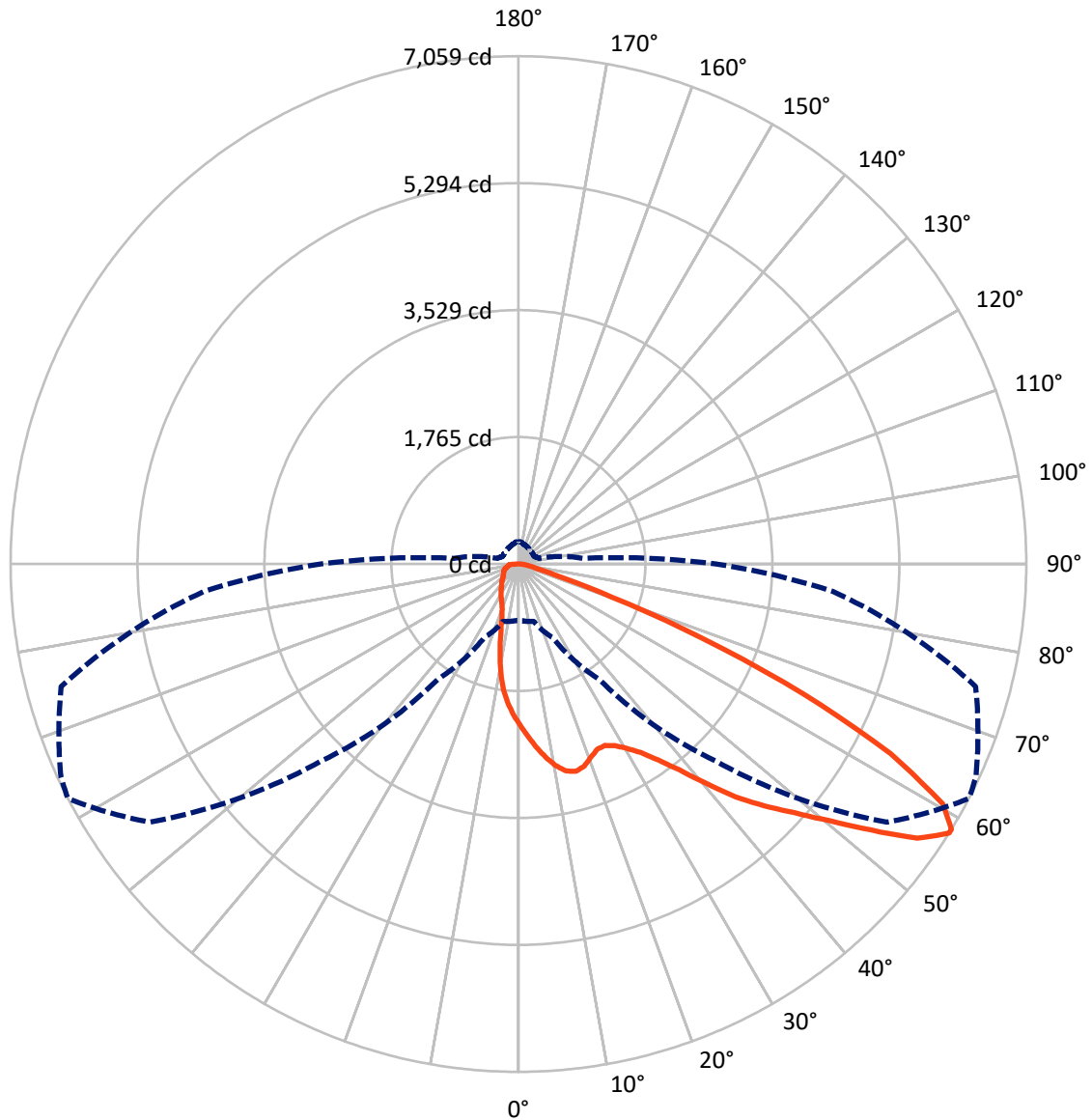
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.2 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	1281.3	0.0	1281.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7120.7	0.0	7120.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	8402.0	0.0	8402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	2.4
10°-20°	510.2	6.1
20°-30°	824.8	9.8
30°-40°	1309.3	15.6
40°-50°	1915.8	22.8
50°-60°	2003.8	23.8
60°-70°	1183.9	14.1
70°-80°	333.5	4.0
80°-90°	121.1	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°	8402.0	100.0
0°-180°	8402.0	100.0



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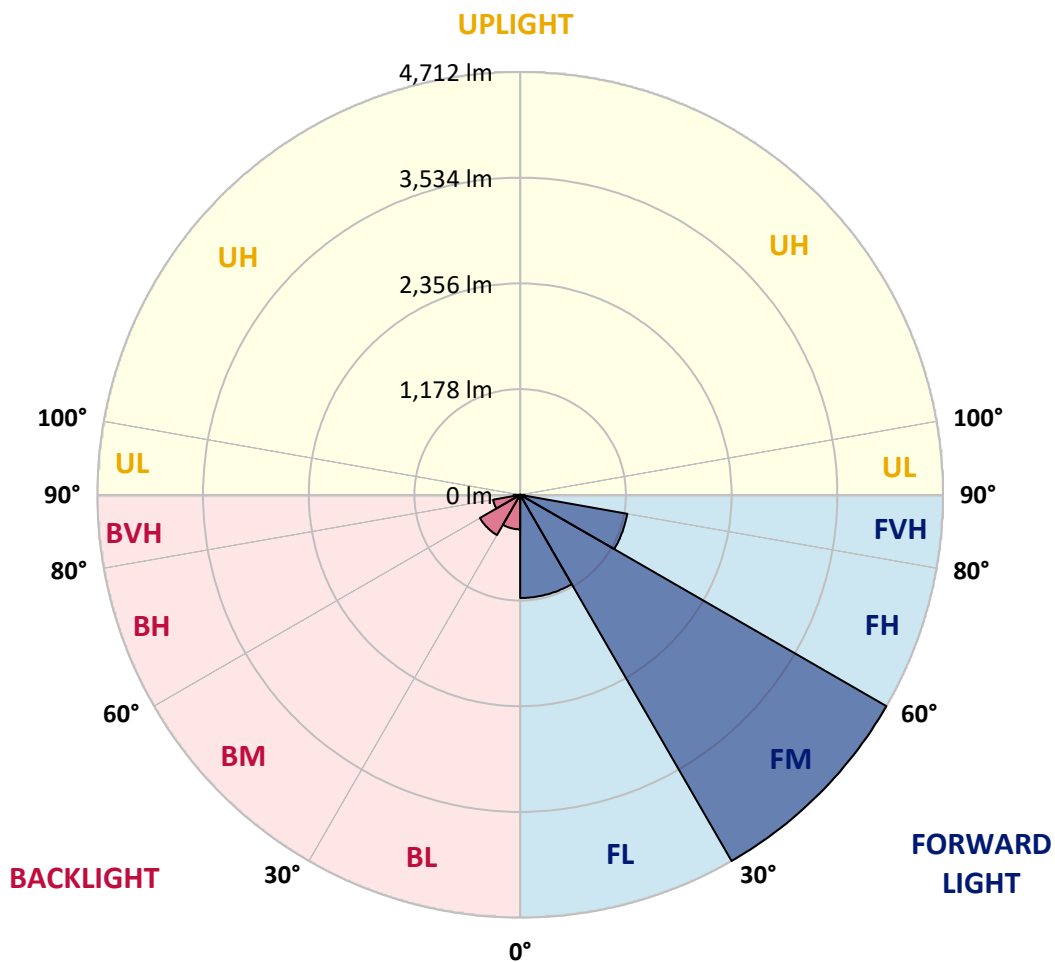
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1149.5	13.7			
FM	(30°-60°)	4711.8	56.1			
FH	(60°-80°)	1211.6	14.4			G1/1800
FVH	(80°-90°)	47.8	0.6			G1/100
BL	(0°-30°)	385.1	4.6	B1/500		
BM	(30°-60°)	517.2	6.2	B1/1000		
BH	(60°-80°)	305.7	3.6	B1/500		G1/500
BVH	(80°-90°)	73.3	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°	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8
2.5°	2550.3	2529.7	2516.7	2505.2	2490.2	2458.1	2415.0	2387.7	2373.9	2326.8	2271.0
5°	2800.4	2782.2	2768.7	2753.3	2726.4	2676.1	2606.5	2551.1	2523.8	2429.6	2318.1
7.5°	2741.8	2749.3	2772.7	2813.4	2848.2	2841.5	2779.4	2709.0	2673.0	2542.0	2372.7
10°	2388.9	2401.9	2442.3	2537.7	2692.0	2850.2	2898.5	2849.8	2813.4	2653.2	2428.9
12.5°	2318.1	2317.7	2320.8	2346.2	2438.0	2660.7	2902.4	2951.5	2929.7	2759.2	2486.2
15°	2347.0	2347.7	2345.4	2356.1	2384.5	2472.8	2781.4	2990.7	3006.1	2866.0	2545.6
17.5°	2422.9	2420.9	2411.8	2411.8	2422.1	2456.5	2638.9	2954.3	3025.5	2960.6	2597.8
20°	2550.3	2541.2	2517.1	2494.9	2483.8	2502.4	2580.4	2870.4	2991.8	3043.3	2640.9
22.5°	2704.6	2697.5	2658.3	2610.8	2572.5	2572.1	2610.5	2797.2	2933.7	3121.2	2677.3
25°	2904.0	2892.5	2834.4	2758.4	2691.2	2665.4	2676.1	2793.6	2902.0	3205.9	2709.8
27.5°	3138.2	3117.3	3048.4	2938.8	2839.9	2788.1	2772.7	2858.1	2930.9	3310.7	2754.9
30°	3422.3	3398.2	3309.9	3167.1	3027.5	2942.4	2909.6	2972.5	3026.7	3438.5	2827.3
32.5°	3745.5	3710.7	3608.7	3451.2	3267.6	3137.8	3084.4	3123.6	3166.7	3592.4	2917.9
35°	4192.2	4150.7	4003.1	3785.9	3578.6	3400.2	3314.7	3343.2	3385.1	3821.9	3048.8
37.5°	4496.9	4478.3	4380.2	4176.0	3950.5	3745.2	3613.0	3629.6	3653.4	4108.7	3216.6
40°	4494.1	4501.6	4503.6	4505.6	4352.1	4155.4	4013.4	3996.0	3991.2	4423.7	3407.3
42.5°	4269.0	4299.8	4399.5	4601.7	4695.1	4604.9	4474.7	4424.5	4399.5	4794.8	3609.4
45°	3924.4	3941.0	4127.7	4522.6	4870.8	5050.0	4951.5	4793.2	4748.1	5135.8	3777.2
47.5°	3746.7	3764.9	3882.4	4312.9	4868.8	5409.6	5466.6	5165.1	5084.4	5432.6	3922.0
50°	3323.8	3361.8	3509.7	3948.1	4691.1	5575.0	6005.1	5608.2	5441.3	5721.4	4067.2
52.5°	2547.1	2605.7	2771.5	3348.3	4240.5	5493.1	6435.9	6145.5	5909.7	6020.5	4191.8
55°	1606.7	1650.2	1789.5	2364.8	3392.2	5067.0	6599.3	6726.7	6517.0	6303.8	4299.8
57.5°	873.6	893.0	945.2	1305.6	2206.5	4125.0	6361.1	7057.5	6970.4	6544.3	4381.3
58°	781.8	794.8	827.3	1131.5	1956.8	3867.4	6255.5	7058.7	7015.1	6579.5	4387.7
60°	580.0	573.3	544.4	645.7	1089.2	2671.8	5616.9	6776.2	6904.0	6622.7	4356.8
62.5°	509.6	493.4	434.4	427.7	529.8	1230.8	4297.9	5804.5	6106.3	6376.6	4169.3
65°	478.7	461.3	385.4	360.8	382.2	520.7	2531.7	4353.3	4731.9	5630.4	3689.8
67.5°	455.8	433.2	354.1	320.5	322.1	344.2	1014.8	2741.8	3167.9	4274.9	2870.0
70°	433.6	409.1	327.6	288.8	279.7	272.2	403.6	1372.5	1759.0	2700.3	1829.8
72.5°	409.9	385.8	304.2	263.9	246.1	221.2	263.5	561.4	784.2	1277.5	830.1
75°	375.5	353.7	280.9	241.7	216.4	183.2	199.0	293.2	351.7	508.8	400.0
77.5°	333.1	315.3	254.8	223.5	191.9	148.8	153.1	203.4	225.5	291.2	237.8
80°	239.4	245.7	226.7	201.0	170.9	120.7	117.5	148.4	160.2	187.1	154.7
82.5°	168.1	171.7	187.5	164.2	141.2	95.0	86.6	104.4	111.6	123.0	83.5
85°	115.9	112.0	128.6	114.3	102.1	63.3	59.3	70.8	75.2	76.4	43.1
87.5°	69.6	69.6	74.4	61.3	55.0	32.8	32.0	40.4	43.1	41.1	23.7
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°	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8
2.5°	2237.8	2209.7	2149.9	2102.0	2041.5	1978.6	1943.4	1905.8	1880.1	1861.5	1891.2
5°	2254.8	2197.4	2074.0	1956.8	1827.5	1693.0	1590.9	1495.9	1429.9	1388.7	1427.5
7.5°	2281.7	2193.4	1996.8	1796.6	1564.4	1340.4	1140.2	1014.8	941.6	905.6	928.2
10°	2312.5	2187.1	1906.2	1579.4	1247.1	965.0	815.4	764.8	748.2	741.4	744.6
12.5°	2338.2	2173.7	1795.0	1316.7	936.5	762.0	718.9	717.7	721.3	722.0	723.2
15°	2356.4	2153.9	1630.0	1042.9	749.0	694.4	692.0	699.1	705.8	708.6	710.2
17.5°	2368.7	2113.1	1443.7	824.5	671.0	661.5	667.1	676.2	683.3	685.3	686.8
20°	2367.5	2053.4	1221.7	687.6	628.7	628.7	638.2	645.3	645.7	643.3	644.5
22.5°	2355.3	1971.5	1006.5	614.8	591.1	597.8	607.3	600.6	572.9	554.7	555.9
25°	2334.7	1873.8	822.1	568.5	556.3	568.1	565.4	514.7	475.2	457.4	457.4
27.5°	2316.5	1758.2	680.5	528.2	521.5	536.1	487.0	441.1	424.5	416.2	413.4
30°	2303.4	1633.6	585.9	489.4	488.6	477.9	422.5	409.9	407.1	400.4	398.0
32.5°	2306.6	1507.4	525.4	455.4	458.2	409.1	391.7	394.5	392.1	385.0	381.8
35°	2332.7	1387.5	485.8	424.5	416.2	369.5	373.5	378.6	377.8	367.9	364.8
37.5°	2379.4	1274.0	459.7	398.8	363.2	349.7	356.1	364.0	362.0	355.3	352.9
40°	2428.5	1167.1	438.4	378.6	331.9	336.3	341.8	346.2	348.2	350.1	348.6
42.5°	2476.3	1055.6	412.3	358.1	318.9	323.6	326.0	330.4	341.0	348.6	348.2
45°	2504.8	950.7	385.4	328.8	308.6	311.4	309.8	318.5	331.5	343.8	344.2
47.5°	2536.5	869.2	364.0	301.9	298.7	300.7	295.9	304.6	316.5	331.5	333.1
50°	2574.8	820.6	347.0	280.5	285.3	285.3	284.1	292.0	308.6	326.0	329.2
52.5°	2618.4	811.1	332.7	265.1	271.8	271.4	272.6	284.5	302.7	319.7	322.4
55°	2671.4	836.8	317.3	253.6	258.8	260.3	264.3	277.7	293.2	312.6	313.7
57.5°	2733.1	889.0	305.0	244.5	246.9	252.0	258.4	270.6	287.2	308.6	309.8
58°	2743.4	900.1	303.1	243.7	244.5	250.4	257.6	269.4	286.0	309.4	310.6
60°	2743.8	936.9	298.7	240.2	235.4	245.3	253.2	265.1	284.1	312.2	314.9
62.5°	2646.5	936.5	295.5	235.0	225.9	238.2	247.3	261.1	282.1	318.9	324.4
65°	2330.3	851.0	280.5	227.1	218.4	231.8	242.1	258.4	287.6	348.2	351.7
67.5°	1822.7	697.5	252.4	216.0	208.5	225.5	239.0	258.0	293.6	354.9	357.3
70°	1205.1	521.9	221.6	203.4	198.2	218.0	240.6	271.4	286.8	340.6	334.3
72.5°	625.5	366.4	196.6	187.5	186.3	211.3	263.5	269.8	280.1	320.5	312.6
75°	328.4	254.4	174.9	170.1	172.1	209.7	311.0	262.7	271.4	306.6	321.7
77.5°	201.0	205.3	156.3	154.3	158.3	204.9	310.6	253.6	258.8	282.1	298.7
80°	134.5	166.6	142.0	142.4	145.2	187.5	278.9	239.4	243.3	266.7	283.7
82.5°	85.1	98.5	129.0	135.7	132.1	154.7	237.0	218.0	223.5	305.0	322.4
85°	43.1	61.7	112.0	130.6	119.1	108.4	192.3	191.1	193.9	220.0	229.9
87.5°	19.8	34.0	87.4	113.9	89.8	67.7	139.7	141.6	152.7	156.3	156.3
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)