

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: P200257

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200257
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-01-LED-E1-AFL-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7154 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

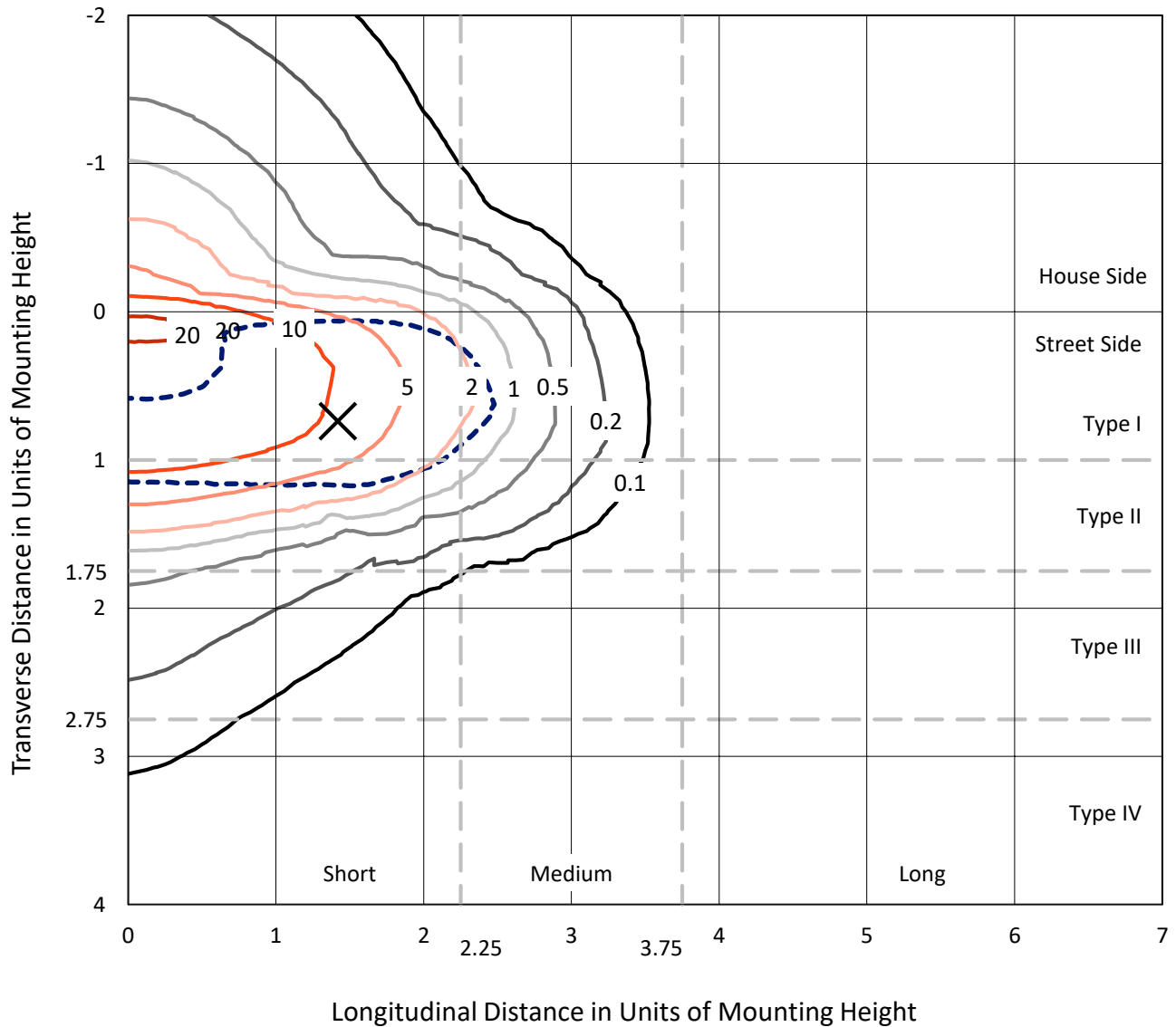
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

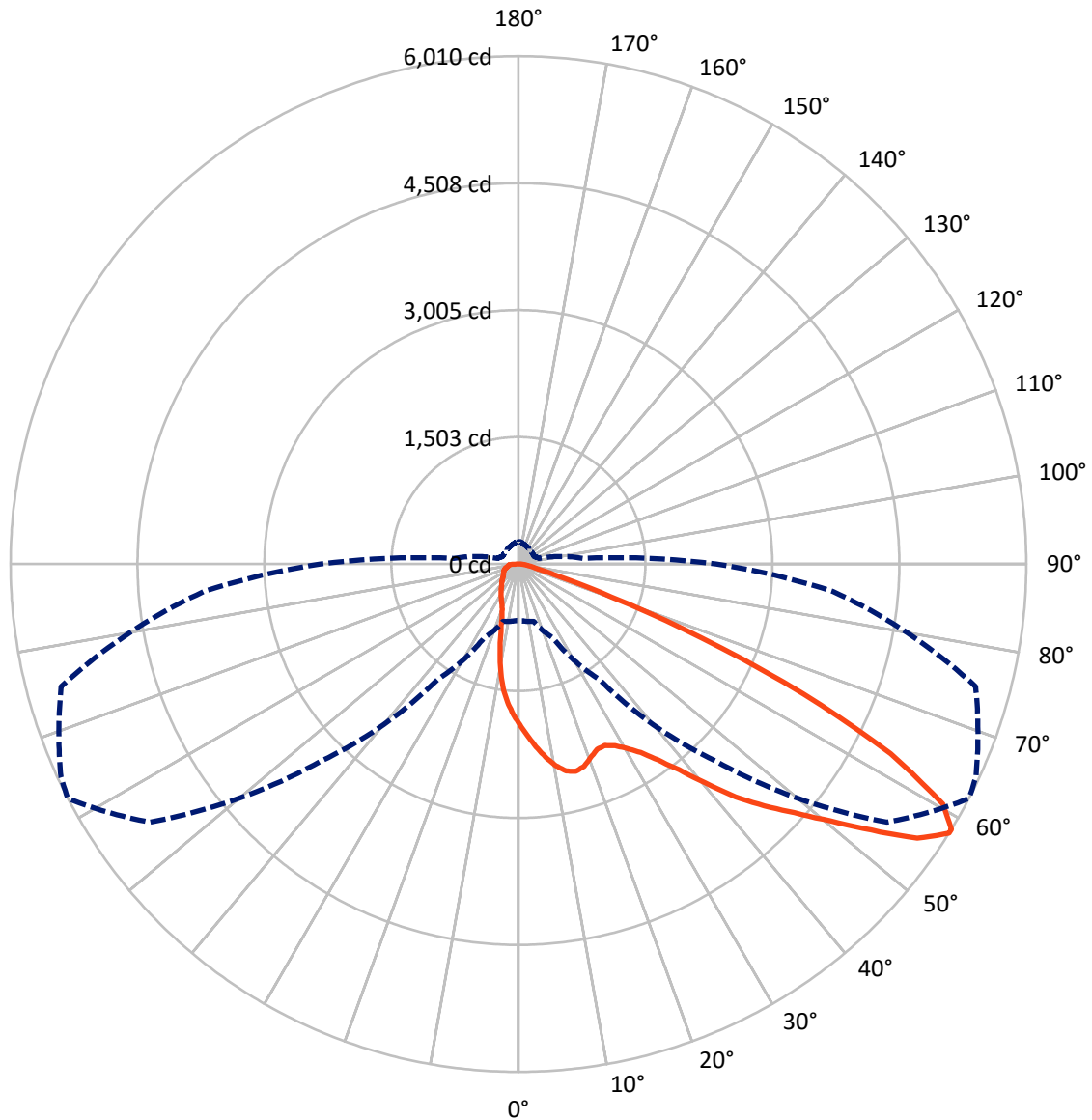
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 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	1091.0	0.0	1091.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6063.0	0.0	6063.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	7154.0	0.0	7154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	2.4
10°-20°	434.4	6.1
20°-30°	702.3	9.8
30°-40°	1114.9	15.6
40°-50°	1631.3	22.8
50°-60°	1706.2	23.8
60°-70°	1008.0	14.1
70°-80°	284.0	4.0
80°-90°	103.1	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°	7154.0	100.0
0°-180°	7154.0	100.0

Coefficient of Utilization



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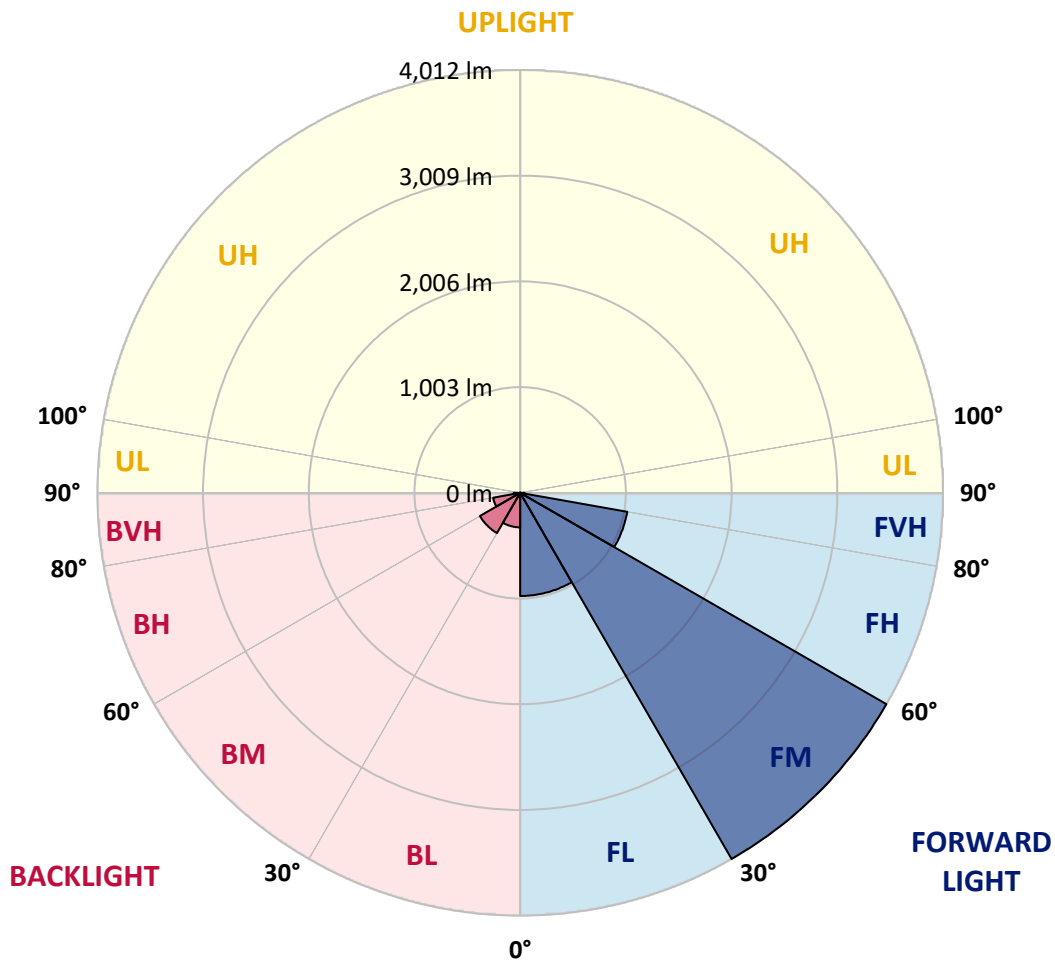
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.8	13.7			
FM (30°-60°)	4011.9	56.1			
FH (60°-80°)	1031.6	14.4			G1/1800
FVH (80°-90°)	40.7	0.6			G1/100
BL (0°-30°)	327.9	4.6	B1/500		
BM (30°-60°)	440.4	6.2	B1/1000		
BH (60°-80°)	260.3	3.6	B1/500		G1/500
BVH (80°-90°)	62.4	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°	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3
2.5°	2171.5	2154.0	2142.9	2133.1	2120.3	2093.0	2056.3	2033.0	2021.3	1981.2	1933.7
5°	2384.4	2368.9	2357.5	2344.3	2321.4	2278.6	2219.3	2172.2	2148.9	2068.8	1973.8
7.5°	2334.5	2340.9	2360.8	2395.5	2425.2	2419.4	2366.6	2306.6	2275.9	2164.4	2020.2
10°	2034.1	2045.2	2079.5	2160.7	2292.1	2426.9	2467.9	2426.5	2395.5	2259.1	2068.1
12.5°	1973.8	1973.4	1976.1	1997.7	2075.8	2265.5	2471.3	2513.1	2494.6	2349.4	2116.9
15°	1998.3	1999.0	1997.0	2006.1	2030.3	2105.5	2368.2	2546.4	2559.6	2440.3	2167.5
17.5°	2063.0	2061.3	2053.6	2053.6	2062.4	2091.7	2247.0	2515.4	2576.1	2520.8	2211.9
20°	2171.5	2163.8	2143.2	2124.3	2114.9	2130.7	2197.1	2444.0	2547.5	2591.2	2248.6
22.5°	2302.9	2296.8	2263.5	2223.0	2190.4	2190.0	2222.7	2381.7	2497.9	2657.6	2279.6
25°	2472.7	2462.9	2413.4	2348.7	2291.4	2269.5	2278.6	2378.7	2471.0	2729.7	2307.3
27.5°	2672.1	2654.2	2595.6	2502.3	2418.1	2374.0	2360.8	2433.6	2495.6	2819.0	2345.7
30°	2914.0	2893.4	2818.3	2696.7	2577.8	2505.3	2477.4	2530.9	2577.1	2927.8	2407.3
32.5°	3189.2	3159.6	3072.6	2938.6	2782.3	2671.8	2626.3	2659.6	2696.4	3058.8	2484.5
35°	3569.5	3534.2	3408.5	3223.6	3047.0	2895.1	2822.3	2846.6	2882.3	3254.2	2596.0
37.5°	3828.9	3813.1	3729.5	3555.7	3363.7	3188.9	3076.3	3090.5	3110.7	3498.5	2738.8
40°	3826.6	3833.0	3834.7	3836.3	3705.6	3538.2	3417.3	3402.4	3398.4	3766.6	2901.2
42.5°	3634.9	3661.2	3746.1	3918.2	3997.7	3920.9	3810.1	3767.3	3746.1	4082.6	3073.3
45°	3341.5	3355.6	3514.6	3850.8	4147.3	4299.9	4216.0	4081.2	4042.8	4373.0	3216.1
47.5°	3190.2	3205.7	3305.8	3672.3	4145.6	4606.1	4654.6	4397.9	4329.2	4625.6	3339.4
50°	2830.1	2862.4	2988.4	3361.7	3994.3	4746.9	5113.1	4775.2	4633.0	4871.6	3463.1
52.5°	2168.8	2218.7	2359.8	2851.0	3610.6	4677.2	5480.0	5232.7	5031.9	5126.2	3569.2
55°	1368.1	1405.1	1523.7	2013.5	2888.4	4314.4	5619.1	5727.6	5549.0	5367.4	3661.2
57.5°	743.8	760.3	804.8	1111.7	1878.8	3512.3	5416.3	6009.2	5935.1	5572.3	3730.6
58°	665.7	676.8	704.4	963.5	1666.2	3293.0	5326.3	6010.2	5973.1	5602.2	3735.9
60°	493.9	488.1	463.5	549.8	927.4	2274.9	4782.6	5769.7	5878.5	5639.0	3709.7
62.5°	433.9	420.1	369.9	364.2	451.1	1048.0	3659.5	4942.3	5199.3	5429.4	3550.0
65°	407.6	392.8	328.1	307.2	325.4	443.3	2155.7	3706.6	4029.0	4794.1	3141.7
67.5°	388.1	368.9	301.5	272.9	274.2	293.1	864.1	2334.5	2697.4	3639.9	2443.7
70°	369.2	348.3	278.9	245.9	238.2	231.8	343.6	1168.6	1497.7	2299.2	1558.0
72.5°	349.0	328.5	259.1	224.7	209.5	188.3	224.4	478.0	667.7	1087.8	706.8
75°	319.7	301.2	239.2	205.8	184.3	156.0	169.4	249.6	299.5	433.2	340.6
77.5°	283.6	268.5	216.9	190.3	163.4	126.7	130.4	173.2	192.0	247.9	202.5
80°	203.8	209.2	193.0	171.1	145.5	102.7	100.1	126.3	136.4	159.3	131.7
82.5°	143.2	146.2	159.7	139.8	120.3	80.9	73.8	88.9	95.0	104.8	71.1
85°	98.7	95.3	109.5	97.4	86.9	53.9	50.5	60.3	64.0	65.0	36.7
87.5°	59.3	59.3	63.3	52.2	46.8	28.0	27.3	34.4	36.7	35.0	20.2
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°	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3
2.5°	1905.4	1881.4	1830.6	1789.8	1738.3	1684.7	1654.7	1622.7	1600.8	1585.0	1610.3
5°	1919.9	1871.0	1765.9	1666.2	1556.0	1441.5	1354.6	1273.7	1217.5	1182.4	1215.4
7.5°	1942.8	1867.6	1700.2	1529.8	1332.0	1141.3	970.9	864.1	801.8	771.1	790.3
10°	1969.0	1862.2	1623.1	1344.8	1061.8	821.6	694.3	651.2	637.0	631.3	634.0
12.5°	1990.9	1850.8	1528.4	1121.1	797.4	648.8	612.1	611.1	614.1	614.8	615.8
15°	2006.4	1833.9	1387.9	888.0	637.7	591.2	589.2	595.3	601.0	603.3	604.7
17.5°	2016.9	1799.3	1229.3	702.0	571.3	563.3	568.0	575.7	581.8	583.5	584.8
20°	2015.9	1748.4	1040.3	585.5	535.3	535.3	543.4	549.4	549.8	547.8	548.8
22.5°	2005.4	1678.7	857.0	523.5	503.3	509.0	517.1	511.4	487.8	472.3	473.3
25°	1987.9	1595.4	700.0	484.1	473.6	483.8	481.4	438.3	404.6	389.4	389.4
27.5°	1972.4	1497.1	579.4	449.7	444.0	456.5	414.7	375.6	361.5	354.4	352.0
30°	1961.3	1391.0	498.9	416.7	416.0	406.9	359.8	349.0	346.6	340.9	338.9
32.5°	1964.0	1283.5	447.4	387.7	390.1	348.3	333.5	335.9	333.8	327.8	325.1
35°	1986.2	1181.4	413.7	361.5	354.4	314.6	318.0	322.4	321.7	313.3	310.6
37.5°	2026.0	1084.7	391.4	339.6	309.3	297.8	303.2	309.9	308.2	302.5	300.5
40°	2067.7	993.8	373.3	322.4	282.6	286.3	291.1	294.8	296.5	298.1	296.8
42.5°	2108.5	898.8	351.0	304.9	271.5	275.6	277.6	281.3	290.4	296.8	296.5
45°	2132.8	809.5	328.1	279.9	262.8	265.1	263.8	271.2	282.3	292.7	293.1
47.5°	2159.7	740.1	309.9	257.0	254.3	256.0	252.0	259.4	269.5	282.3	283.6
50°	2192.4	698.7	295.4	238.8	242.9	242.9	241.9	248.6	262.8	277.6	280.3
52.5°	2229.4	690.6	283.3	225.7	231.4	231.1	232.1	242.2	257.7	272.2	274.6
55°	2274.6	712.5	270.2	215.9	220.3	221.7	225.0	236.5	249.6	266.1	267.1
57.5°	2327.1	757.0	259.7	208.2	210.2	214.6	220.0	230.4	244.6	262.8	263.8
58°	2335.9	766.4	258.0	207.5	208.2	213.2	219.3	229.4	243.6	263.4	264.4
60°	2336.2	797.7	254.3	204.5	200.4	208.9	215.6	225.7	241.9	265.8	268.2
62.5°	2253.4	797.4	251.6	200.1	192.4	202.8	210.5	222.3	240.2	271.5	276.2
65°	1984.2	724.6	238.8	193.4	186.0	197.4	206.2	220.0	244.9	296.5	299.5
67.5°	1552.0	593.9	214.9	183.9	177.5	192.0	203.5	219.6	250.0	302.2	304.2
70°	1026.1	444.3	188.7	173.2	168.8	185.6	204.8	231.1	244.2	290.0	284.7
72.5°	532.6	311.9	167.4	159.7	158.7	179.9	224.4	229.7	238.5	272.9	266.1
75°	279.6	216.6	148.9	144.9	146.5	178.5	264.8	223.7	231.1	261.1	273.9
77.5°	171.1	174.8	133.1	131.4	134.8	174.5	264.4	215.9	220.3	240.2	254.3
80°	114.5	141.8	120.9	121.3	123.6	159.7	237.5	203.8	207.2	227.1	241.5
82.5°	72.4	83.9	109.8	115.5	112.5	131.7	201.8	185.6	190.3	259.7	274.6
85°	36.7	52.6	95.3	111.2	101.4	92.3	163.7	162.7	165.1	187.3	195.7
87.5°	16.8	29.0	74.4	97.0	76.5	57.6	118.9	120.6	130.0	133.1	133.1
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)