

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: P199968

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10264.9 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

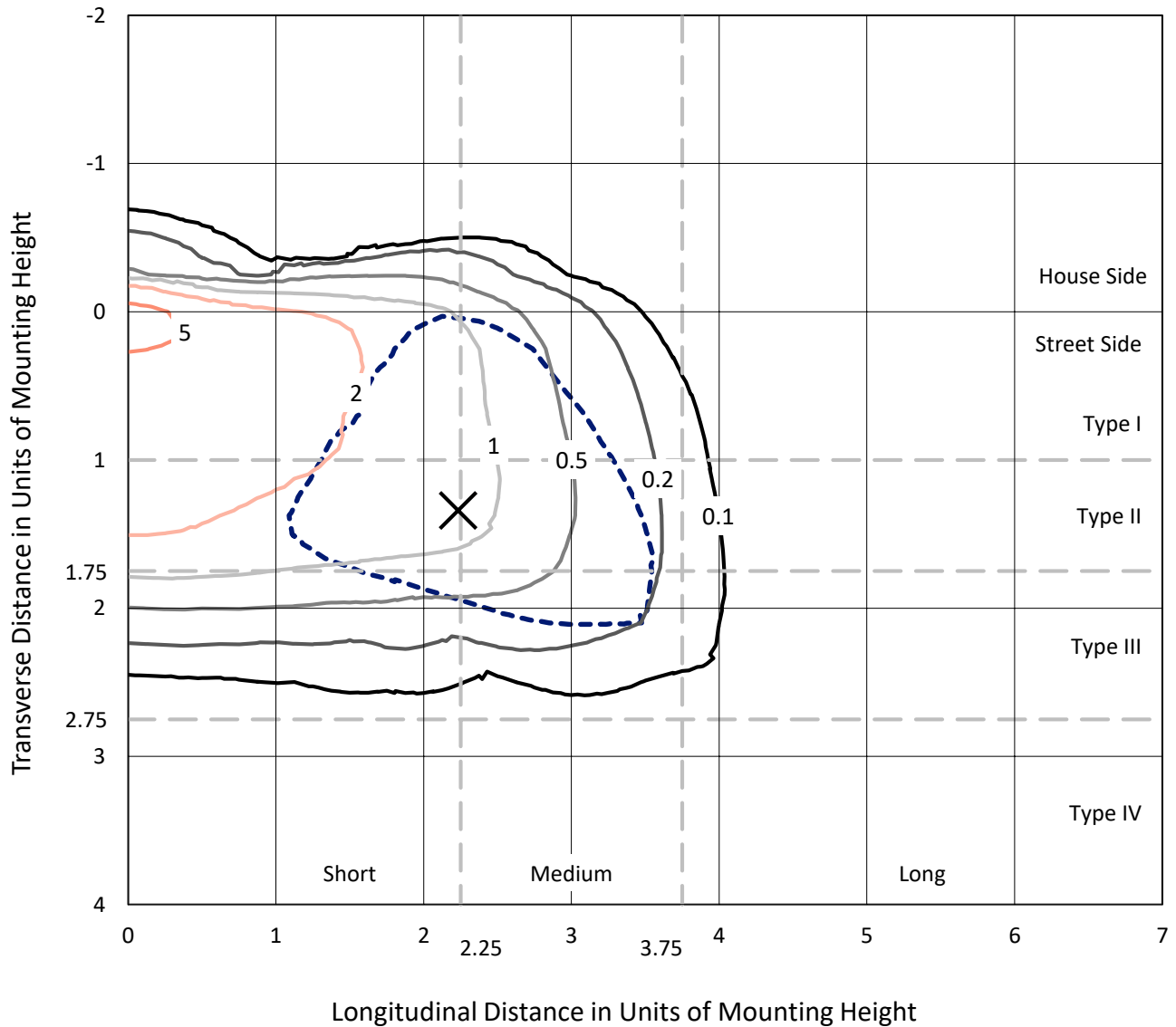


REPORT NUMBER: P199968

CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

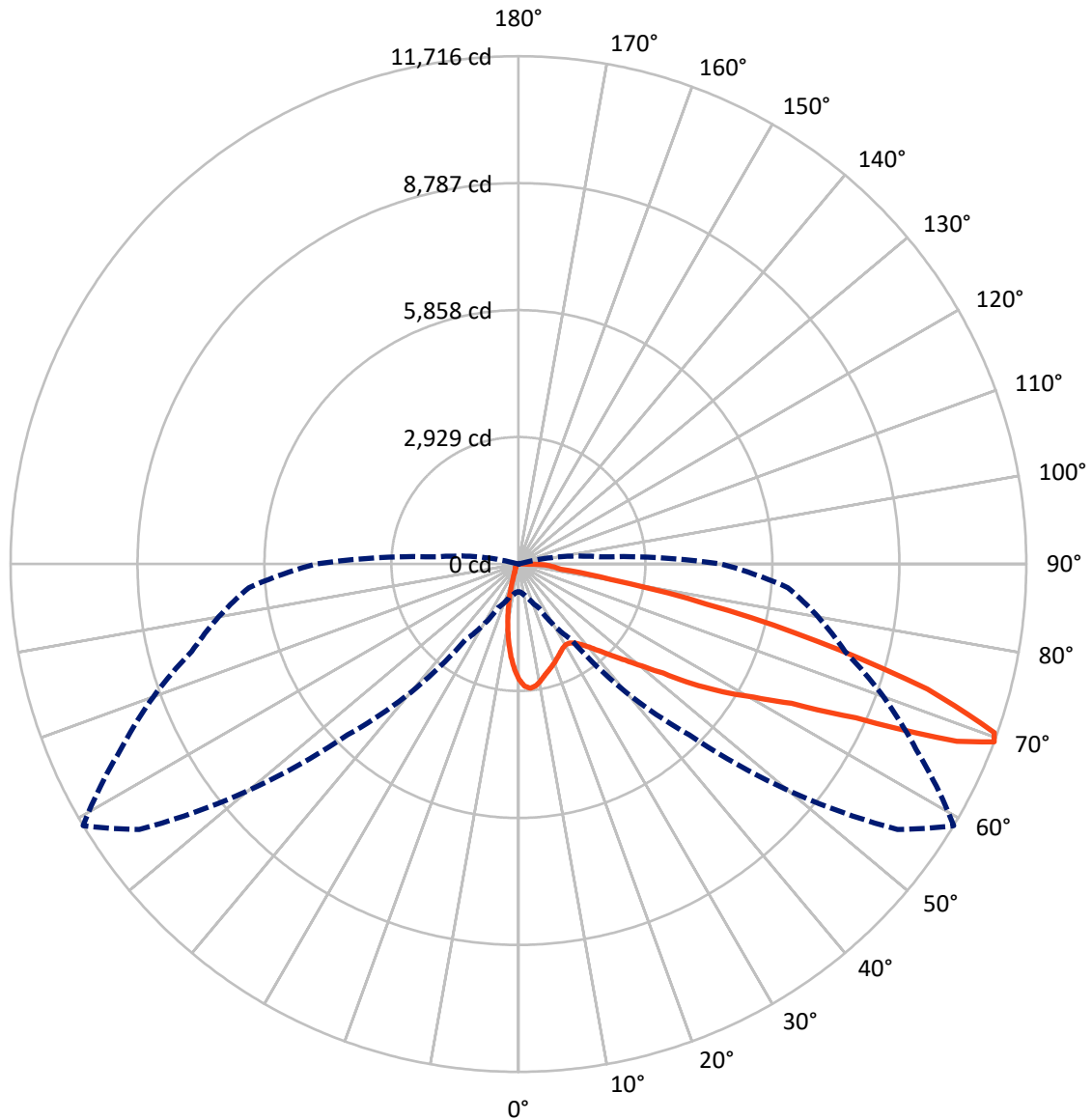
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P199968
CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P199968

CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.9	0.0	835.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9429.0	0.0	9429.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	10264.9	0.0	10264.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	2.1
10°-20°	448.1	4.4
20°-30°	603.0	5.9
30°-40°	875.5	8.5
40°-50°	1457.8	14.2
50°-60°	2274.1	22.2
60°-70°	2814.1	27.4
70°-80°	1426.1	13.9
80°-90°	149.2	1.5
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°	10264.9	100.0
0°-180°	10264.9	100.0



REPORT NUMBER: P199968

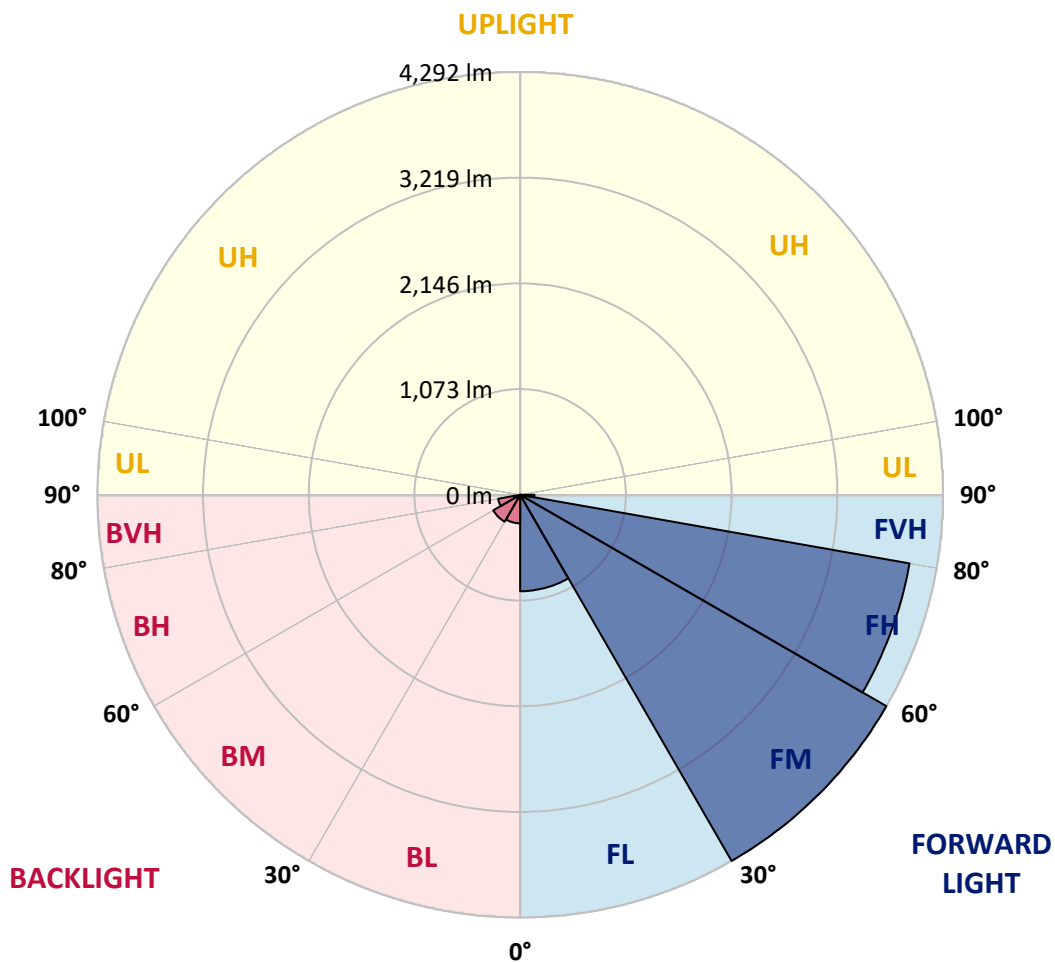
CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.6	9.5			
FM	(30°-60°)	4292.5	41.8			
FH	(60°-80°)	4013.2	39.1			G2/5000
FVH	(80°-90°)	144.6	1.4			G2/225
BL	(0°-30°)	289.3	2.8	B1/500		
BM	(30°-60°)	315.0	3.1	B1/1000		
BH	(60°-80°)	227.0	2.2	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P199968

CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8
2.5°	2928.3	2927.2	2914.5	2908.6	2898.2	2876.1	2841.9	2824.0	2794.9	2744.4	2676.5
5°	2901.7	2915.6	2923.1	2923.8	2931.3	2923.1	2892.4	2877.4	2837.3	2755.9	2634.1
7.5°	2720.5	2725.8	2747.4	2765.9	2801.9	2836.1	2847.1	2840.7	2816.9	2729.9	2567.9
10°	2526.7	2532.0	2557.4	2581.8	2630.6	2683.4	2739.1	2750.7	2760.7	2692.7	2504.1
12.5°	2359.6	2364.8	2390.9	2422.9	2479.6	2544.6	2631.2	2650.3	2693.9	2657.3	2453.0
15°	2215.6	2217.9	2243.4	2282.9	2350.8	2434.4	2532.5	2563.2	2630.0	2632.4	2408.3
17.5°	2093.1	2098.9	2114.6	2152.3	2226.6	2330.0	2444.2	2488.4	2566.7	2611.4	2364.8
20°	2018.2	2024.0	2023.5	2044.4	2111.1	2221.3	2356.0	2408.8	2504.1	2590.0	2325.9
22.5°	2003.7	2003.7	1988.6	1985.7	2025.2	2117.5	2264.3	2328.8	2447.7	2580.7	2298.6
25°	2055.3	2053.1	2015.3	1984.5	1986.4	2041.4	2175.6	2252.2	2400.2	2587.0	2284.1
27.5°	2164.5	2161.5	2113.9	2055.3	2008.4	2007.7	2108.1	2190.6	2362.4	2617.3	2289.8
30°	2315.4	2314.2	2262.6	2188.9	2103.6	2025.2	2085.0	2159.8	2338.0	2671.8	2303.1
32.5°	2480.3	2478.5	2439.6	2361.8	2253.9	2103.6	2109.4	2172.1	2345.0	2744.4	2335.8
35°	2655.0	2652.0	2635.3	2567.4	2448.4	2248.1	2189.4	2238.1	2389.2	2852.9	2399.6
37.5°	2844.2	2847.1	2859.4	2794.3	2669.5	2450.6	2323.5	2356.6	2477.9	3000.4	2503.4
40°	3123.4	3122.8	3126.9	3041.6	2921.4	2698.4	2511.0	2521.4	2626.6	3196.0	2661.3
42.5°	3630.1	3594.7	3487.3	3313.2	3192.4	2981.8	2747.4	2736.3	2808.2	3438.1	2882.5
45°	4311.1	4235.6	3957.0	3623.1	3468.8	3301.0	3038.1	3002.7	3048.6	3728.8	3155.3
47.5°	4896.7	4818.4	4424.2	3945.9	3761.9	3604.0	3378.9	3314.9	3330.0	4054.4	3501.3
50°	5095.8	5057.5	4713.2	4226.8	4045.8	3985.3	3774.2	3696.3	3674.8	4431.1	3902.4
52.5°	5026.7	5023.8	4794.6	4409.0	4305.8	4380.1	4271.5	4181.6	4102.5	4828.1	4310.4
55°	4915.8	4930.4	4827.6	4568.6	4565.3	4740.5	4951.8	4876.9	4648.2	5259.4	4662.2
57.5°	4609.9	4672.0	4809.0	4870.6	5013.4	5192.6	5518.3	5562.5	5292.0	5589.7	4954.2
60°	3740.4	3876.8	4324.9	4914.1	5590.9	6037.8	6202.1	6239.8	5820.1	5864.3	5348.2
62.5°	2655.0	2794.3	3362.6	4359.2	5599.6	7148.3	7220.8	7072.8	6401.8	6271.2	6028.0
65°	1409.3	1516.7	1981.1	3146.6	4854.9	7405.9	9002.2	8561.0	7428.0	7071.6	6906.2
67.5°	720.9	753.5	938.0	1539.9	3337.6	6578.3	10599.0	10909.5	9196.7	7865.7	6863.7
69°	638.0	657.0	779.6	1113.4	2137.2	5571.7	10676.9	11715.8	10122.5	7799.5	6237.5
70°	617.7	634.5	745.9	1007.7	1670.6	4672.6	10379.1	11645.0	10359.3	7547.6	5769.7
72.5°	524.1	538.6	664.1	890.5	1357.6	2319.5	8431.0	9867.6	9295.9	6287.5	4176.3
75°	350.6	398.1	637.3	834.7	1263.0	1317.6	5558.3	7130.8	6624.1	4240.8	2175.6
77.5°	84.1	90.5	180.0	664.1	1155.1	1159.8	2858.8	4432.8	3615.6	1511.5	514.3
80°	45.3	43.4	50.5	131.7	1075.5	1088.3	1286.8	2151.8	1290.9	250.7	169.5
82.5°	31.9	30.1	32.6	55.1	338.3	991.4	931.0	974.0	535.2	96.3	76.1
85°	11.6	11.0	18.0	49.9	106.2	570.0	956.6	803.4	433.6	44.1	55.7
87.5°	4.1	3.5	7.0	27.4	32.6	242.7	590.3	607.2	170.7	26.7	26.1
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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CATALOG NUMBER: GPC-AF-02-LED-E1-SL3-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8	2671.8
2.5°	2648.0	2612.1	2545.8	2477.9	2415.2	2339.8	2302.1	2265.0	2249.2	2243.4	2216.1
5°	2571.4	2510.4	2370.0	2228.9	2098.9	1960.7	1869.7	1796.4	1753.5	1732.7	1699.5
7.5°	2473.3	2373.4	2160.4	1942.7	1740.2	1540.5	1392.5	1278.8	1200.3	1162.6	1128.4
10°	2378.1	2245.2	1942.2	1645.6	1370.4	1105.7	901.4	753.5	658.9	615.2	587.4
12.5°	2292.8	2120.4	1731.4	1355.9	1010.5	700.6	492.8	375.0	316.3	296.0	286.2
15°	2216.8	2005.5	1532.4	1080.8	684.4	400.6	269.4	229.2	219.9	219.9	218.8
17.5°	2144.8	1892.8	1340.3	822.5	429.5	245.0	204.9	199.7	199.7	202.0	202.0
20°	2075.7	1785.6	1154.6	590.3	270.5	194.5	185.2	184.0	185.2	188.0	188.0
22.5°	2016.5	1687.9	980.9	405.2	200.8	175.3	170.7	169.0	169.5	171.2	172.4
25°	1972.3	1605.6	817.3	274.6	172.9	159.6	154.4	151.6	149.1	149.1	150.3
27.5°	1944.5	1535.8	658.9	199.7	155.5	145.1	137.0	132.3	127.1	124.2	125.4
30°	1924.2	1469.6	510.2	163.2	139.3	128.8	118.4	110.9	103.4	99.9	100.9
32.5°	1916.6	1416.3	381.4	144.0	124.8	113.2	100.4	90.5	82.4	79.5	80.1
35°	1936.9	1373.9	279.1	130.0	113.2	98.7	84.1	73.1	66.7	65.0	65.5
37.5°	1990.3	1351.3	209.0	118.4	102.7	86.6	70.3	59.8	55.7	55.7	56.3
40°	2091.3	1350.7	167.7	110.3	93.4	74.9	58.0	50.5	48.2	49.3	49.9
42.5°	2238.8	1381.5	146.3	102.7	85.3	63.8	48.2	42.9	42.4	43.4	44.1
45°	2440.2	1437.8	134.7	96.3	76.6	53.4	40.7	37.1	37.1	38.9	39.5
47.5°	2686.9	1520.3	124.8	89.9	68.0	44.7	34.9	32.6	33.1	34.9	35.4
50°	2984.1	1624.1	114.9	83.0	61.5	37.1	30.1	28.4	29.1	31.3	31.9
52.5°	3322.5	1764.0	106.8	76.6	53.4	30.8	25.5	24.4	25.5	27.9	28.4
55°	3612.7	1889.4	96.9	71.3	42.9	25.5	20.9	20.9	22.1	24.9	25.5
57.5°	3892.0	2020.5	88.3	61.5	33.7	20.3	17.4	18.0	19.7	22.6	23.3
60°	4301.7	2242.9	77.8	51.7	25.5	16.3	14.5	15.1	17.4	20.3	20.9
62.5°	4997.6	2581.2	67.3	42.9	19.7	12.8	11.6	12.8	15.7	19.1	19.7
65°	5625.8	2718.8	55.1	35.9	15.1	9.9	9.9	11.6	15.1	18.6	19.1
67.5°	5275.7	2288.8	42.9	28.4	11.6	7.5	8.0	11.0	14.5	18.6	19.1
69°	4665.7	1871.4	36.6	22.6	9.9	7.0	7.5	11.0	14.5	18.0	18.6
70°	4190.3	1580.0	32.6	19.1	8.7	7.0	7.5	10.5	14.5	18.0	18.6
72.5°	2806.5	853.4	26.1	13.9	8.0	6.3	6.3	10.5	13.9	17.4	18.0
75°	1206.2	235.7	20.9	9.9	7.0	5.8	5.8	9.9	13.3	16.8	18.0
77.5°	220.6	59.8	16.8	8.7	7.0	5.8	5.3	9.3	12.8	16.3	16.8
80°	87.6	29.6	13.3	7.5	6.3	5.3	4.7	8.7	12.2	15.7	16.3
82.5°	52.8	16.8	11.0	7.0	6.3	4.7	4.1	7.5	11.6	15.1	15.7
85°	42.9	11.6	8.7	7.0	5.8	4.7	3.5	7.0	10.5	14.5	15.1
87.5°	20.9	8.0	8.0	6.3	5.8	4.7	3.5	6.3	9.9	13.9	14.5
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)