

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: P300847

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL4-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11154.3 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

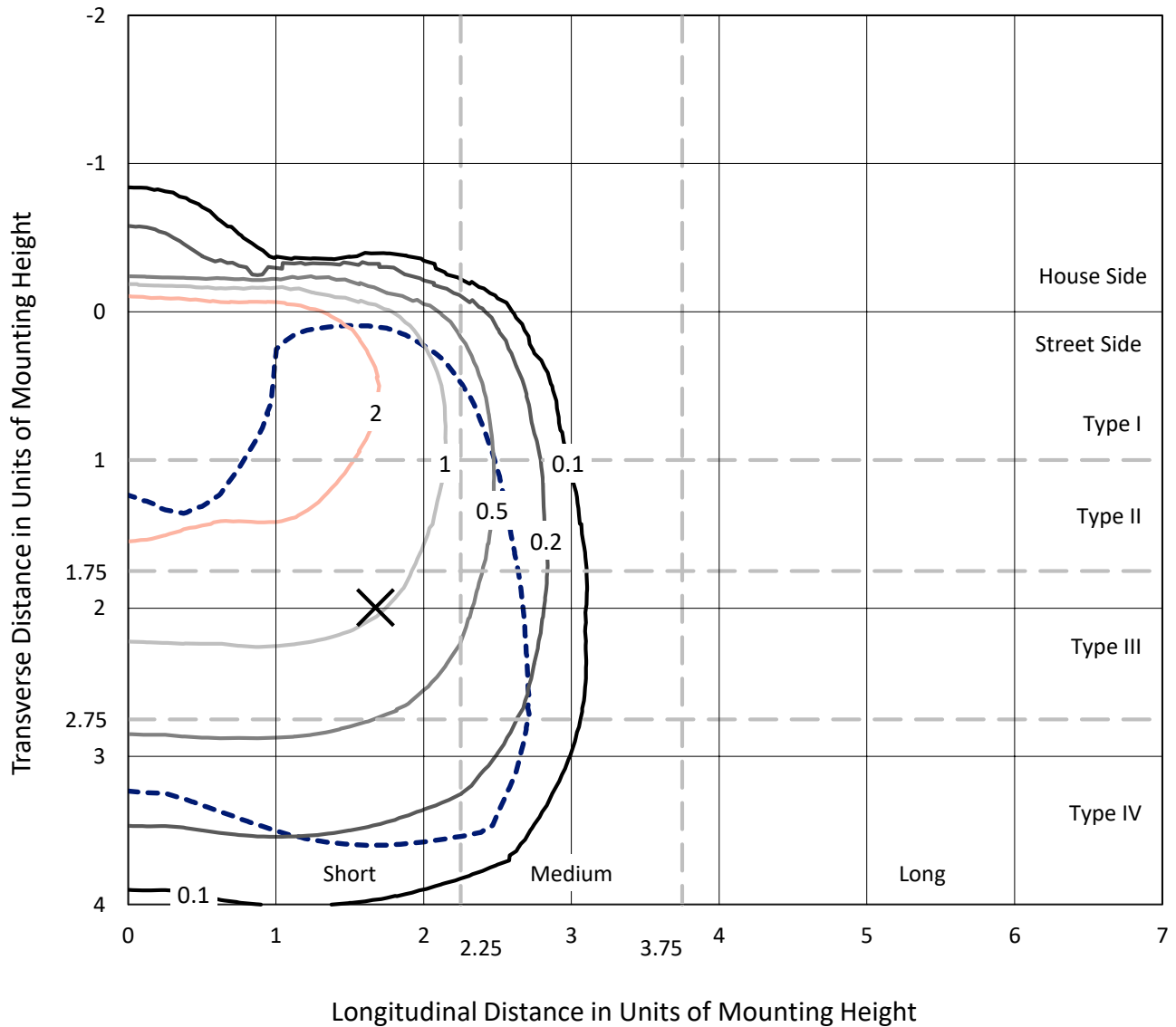
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300847
 CATALOG NUMBER: GLNA-AF-02-LED-E1-SL4-7030

Iso-Footcandle Lines of Horizontal Illumination

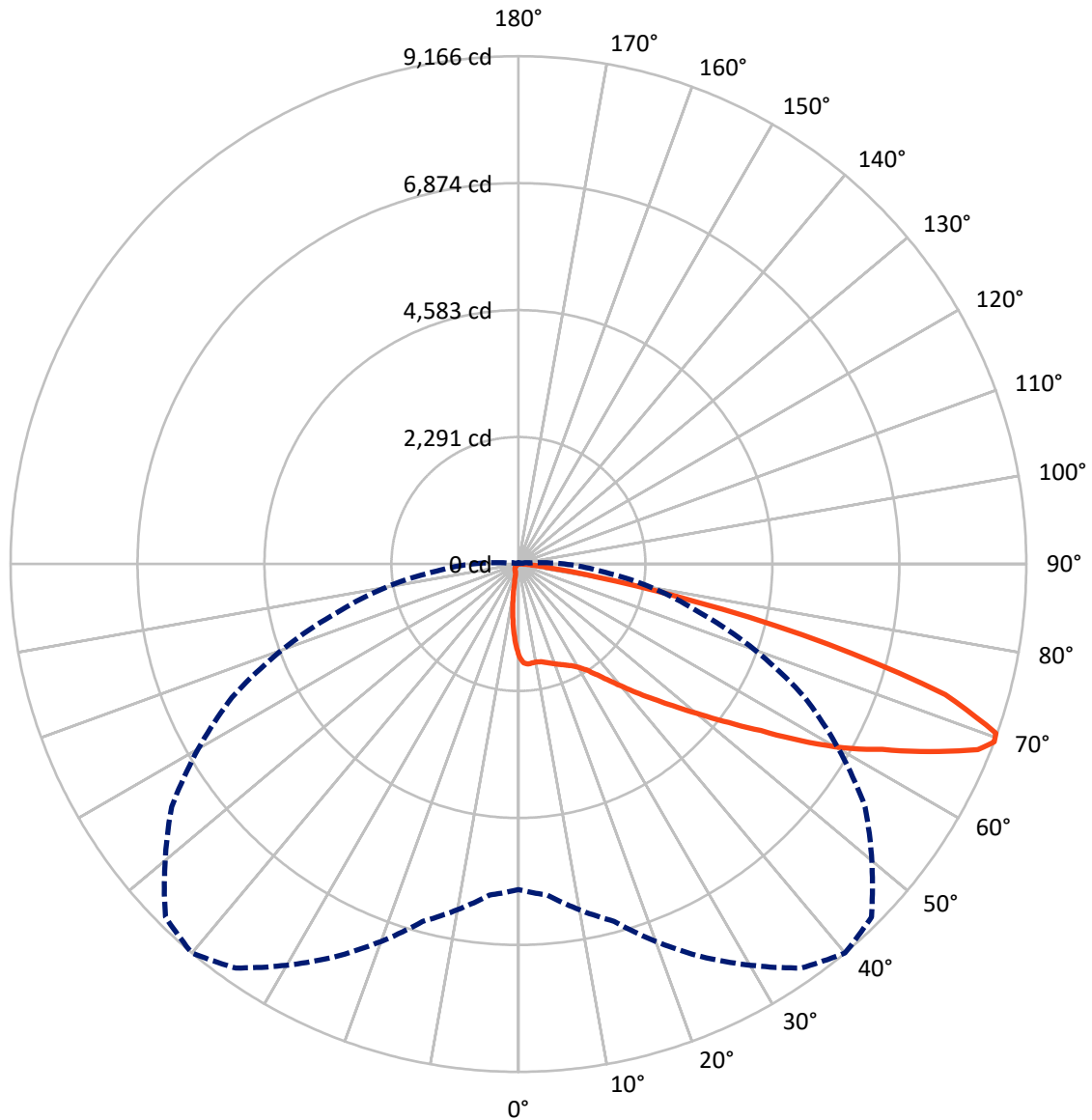
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300847
CATALOG NUMBER: GLNA-AF-02-LED-E1-SL4-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P300847

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL4-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.6	0.0	652.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10501.7	0.0	10501.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	11154.3	0.0	11154.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.2
10°-20°	332.3	3.0
20°-30°	559.7	5.0
30°-40°	916.2	8.2
40°-50°	1586.4	14.2
50°-60°	2498.8	22.4
60°-70°	3263.3	29.3
70°-80°	1680.7	15.1
80°-90°	181.8	1.6
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°	11154.3	100.0
0°-180°	11154.3	100.0

Coefficient of Utilization



REPORT NUMBER: P300847

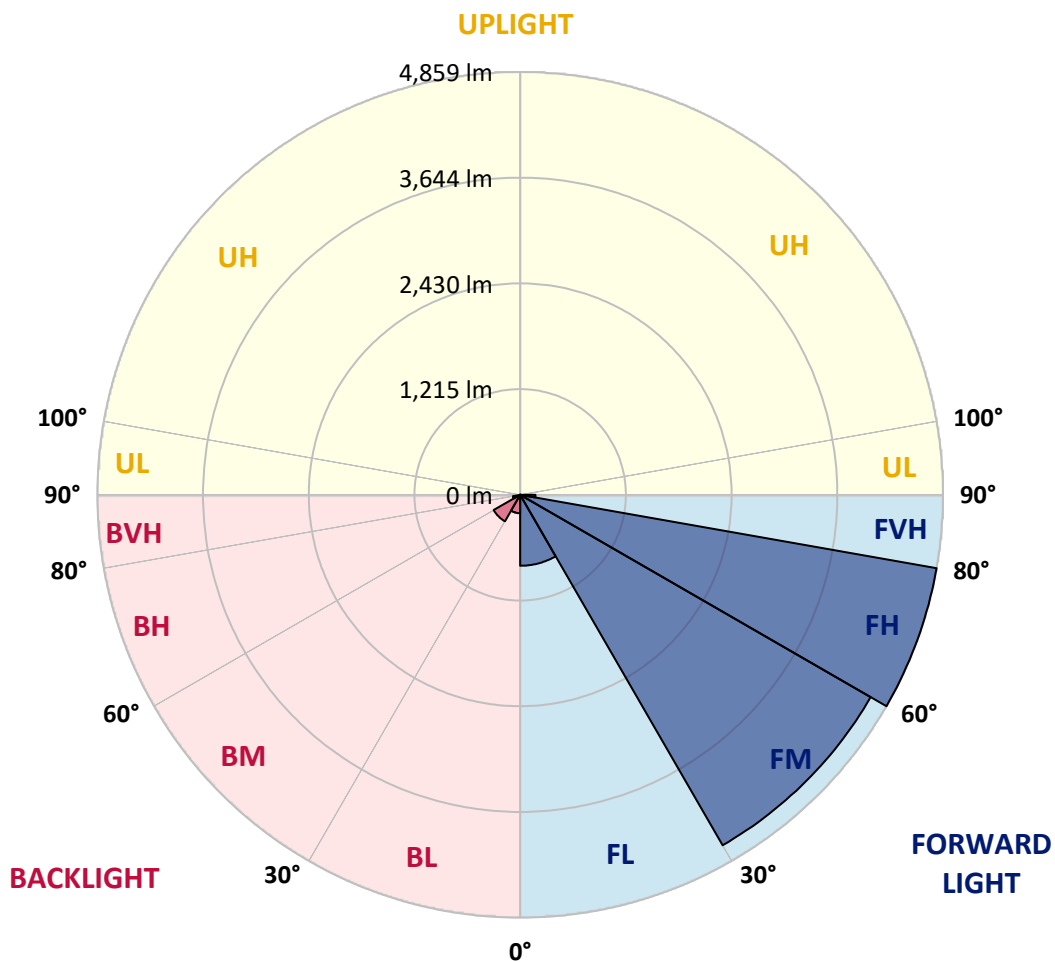
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	815.7	7.3			
FM	(30°-60°)	4650.6	41.7			
FH	(60°-80°)	4859.3	43.6			G2/5000
FVH	(80°-90°)	176.1	1.6			G2/225
BL	(0°-30°)	211.4	1.9	B1/500		
BM	(30°-60°)	350.8	3.1	B1/1000		
BH	(60°-80°)	84.7	0.8	B0/110		G0/110
BVH	(80°-90°)	5.7	0.1			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 IV Short





REPORT NUMBER: P300847

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1829.8	1819.9	1813.9	1805.9	1796.0	1787.3	1784.0	1759.5	1736.2	1704.4	1667.8
5°	1863.7	1860.4	1849.8	1839.1	1827.2	1813.9	1806.6	1777.4	1744.2	1697.7	1634.0
7.5°	1867.0	1863.0	1849.8	1835.1	1818.6	1802.6	1790.0	1760.8	1730.2	1683.1	1605.4
10°	1861.7	1857.1	1847.1	1831.2	1810.6	1795.3	1782.7	1754.8	1728.9	1686.4	1600.1
12.5°	1855.7	1851.1	1846.4	1838.5	1820.5	1809.9	1799.3	1772.7	1749.5	1713.6	1619.4
15°	1861.7	1859.1	1864.4	1861.0	1851.1	1841.8	1831.2	1807.3	1786.0	1756.1	1654.6
17.5°	1886.9	1886.9	1903.5	1905.5	1896.2	1883.0	1867.7	1843.8	1825.9	1800.6	1696.4
20°	1946.0	1944.0	1965.3	1969.3	1946.7	1926.1	1903.5	1874.3	1860.4	1844.4	1737.5
22.5°	2047.6	2038.3	2050.9	2046.9	2002.5	1970.6	1942.7	1906.9	1899.6	1892.2	1783.4
25°	2179.7	2174.4	2183.1	2143.9	2065.5	2022.4	1989.2	1948.7	1948.7	1956.0	1835.1
27.5°	2371.6	2351.7	2322.5	2253.4	2135.9	2080.8	2045.0	2001.8	2013.1	2040.3	1903.5
30°	2568.1	2546.2	2479.2	2372.9	2221.6	2163.8	2122.0	2076.8	2103.4	2153.2	1995.2
32.5°	2762.0	2737.5	2642.5	2508.4	2344.4	2286.6	2246.1	2196.3	2240.8	2324.5	2129.3
35°	2949.9	2928.0	2818.5	2660.4	2507.7	2459.9	2422.7	2379.6	2436.7	2553.5	2318.5
37.5°	3161.1	3137.1	3003.7	2832.4	2706.2	2671.7	2644.5	2601.3	2700.9	2872.2	2582.1
40°	3420.7	3380.2	3200.2	3029.6	2936.0	2919.4	2900.8	2894.8	3049.5	3286.5	2933.3
42.5°	3718.1	3651.7	3406.0	3237.4	3188.3	3200.2	3195.6	3222.1	3485.7	3801.8	3360.9
45°	4015.6	3929.9	3635.1	3459.2	3465.8	3507.6	3533.5	3639.8	4032.1	4392.7	3821.0
47.5°	4267.9	4183.5	3854.9	3698.8	3778.5	3860.9	3931.2	4132.4	4593.8	4974.3	4178.9
50°	4483.6	4404.0	4087.9	3962.4	4141.7	4274.5	4388.7	4686.8	5198.0	5417.1	4429.9
52.5°	4660.2	4607.1	4329.6	4264.5	4556.7	4751.2	4918.5	5275.7	5733.2	5777.0	4625.1
55°	4832.2	4794.4	4589.2	4623.7	5044.0	5308.9	5520.7	5900.5	6194.0	6077.1	4812.3
57.5°	5030.1	4995.5	4885.3	5079.2	5684.7	6018.0	6249.1	6454.2	6599.6	6383.8	4988.9
60°	5231.9	5212.0	5214.6	5585.1	6420.4	6740.4	6867.9	6921.0	6998.0	6672.7	4998.9
62.5°	5424.4	5462.3	5591.1	6148.1	7124.8	7370.5	7434.9	7487.3	7397.0	6718.5	4618.4
65°	5750.4	5812.2	6119.6	6901.7	7899.6	8162.6	8229.0	8049.0	7460.1	6126.2	3756.6
67.5°	5909.8	6022.7	6571.1	7604.2	8651.2	8943.4	8918.8	8085.5	6694.6	4671.5	2410.8
69°	5876.6	5996.8	6675.3	7819.3	8900.9	9165.8	9009.8	7638.7	5703.3	3384.1	1479.9
70°	5745.1	5866.6	6621.5	7811.3	8932.7	9142.5	8841.1	7087.0	4822.2	2474.5	925.5
72.5°	4797.7	4902.6	5878.6	7060.4	8229.0	8058.3	7396.4	4909.9	2349.7	673.9	208.5
75°	2953.2	3011.7	4218.1	5318.9	6215.2	5777.0	4927.8	2442.7	700.5	190.6	115.5
77.5°	1560.3	1586.8	2309.2	3135.2	3939.9	3260.0	2525.7	952.8	322.7	119.5	83.7
80°	922.2	942.1	1243.6	1433.5	1705.0	1424.2	1009.9	584.9	231.1	75.0	74.4
82.5°	527.8	540.5	901.6	796.7	671.9	573.7	502.6	554.4	138.8	50.5	77.0
85°	193.9	196.5	507.3	606.2	399.7	237.7	249.6	459.5	37.2	31.9	60.4
87.5°	90.3	88.3	260.9	371.1	233.7	150.7	194.5	100.9	14.6	20.6	16.6
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°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1646.6	1622.0	1577.5	1531.7	1485.2	1449.4	1414.2	1386.3	1377.0	1359.8	1361.1
5°	1596.1	1551.0	1458.0	1363.7	1265.5	1184.5	1108.1	1046.4	1016.5	986.0	986.0
7.5°	1552.3	1486.6	1341.2	1187.8	1029.1	895.7	775.5	685.2	635.4	595.6	594.9
10°	1535.7	1446.7	1243.6	1023.8	802.7	620.8	478.0	386.4	339.3	308.7	307.4
12.5°	1543.0	1432.8	1168.5	872.4	594.9	399.0	276.9	217.8	197.9	188.6	188.6
15°	1564.3	1428.8	1093.5	724.4	420.3	249.6	183.9	168.0	166.7	166.7	166.7
17.5°	1590.2	1430.1	1016.5	580.3	286.2	178.6	158.7	156.7	158.0	158.0	158.0
20°	1616.7	1430.8	933.5	446.8	201.8	155.4	149.4	148.7	150.1	150.1	150.7
22.5°	1649.2	1434.1	850.5	334.0	166.7	146.7	142.1	142.1	142.7	142.7	142.1
25°	1686.4	1440.8	764.2	247.7	152.0	140.8	136.8	136.1	136.8	136.1	135.4
27.5°	1732.9	1450.1	667.9	193.9	145.4	134.8	131.5	131.5	130.8	130.1	129.5
30°	1791.3	1460.7	559.7	164.7	138.8	129.5	126.1	125.5	124.8	123.5	123.5
32.5°	1880.3	1483.9	452.8	149.4	131.5	122.2	119.5	119.5	118.2	116.9	116.2
35°	2017.1	1529.7	357.2	140.1	123.5	114.2	110.9	110.9	109.6	108.9	108.2
37.5°	2206.3	1599.4	277.5	131.5	115.5	105.6	102.2	101.6	100.3	98.9	98.3
40°	2457.9	1685.8	218.4	123.5	107.6	96.9	94.3	93.0	90.3	88.3	88.3
42.5°	2774.0	1784.0	177.3	114.9	98.3	89.0	87.0	85.0	80.3	78.3	77.7
45°	3104.6	1872.3	150.1	104.9	89.0	81.0	79.7	76.4	70.4	68.4	68.4
47.5°	3343.0	1892.9	132.1	95.6	80.3	72.4	71.7	65.7	60.4	59.1	58.4
50°	3491.7	1852.4	117.5	86.3	72.4	64.4	62.4	55.1	51.8	50.5	49.8
52.5°	3592.0	1780.0	105.6	78.3	65.1	57.1	52.5	47.1	44.5	43.2	43.2
55°	3672.3	1677.8	93.6	71.0	59.1	51.1	44.5	40.5	37.8	36.5	36.5
57.5°	3694.9	1539.0	81.7	65.1	53.1	45.1	37.8	35.2	31.9	31.2	31.2
60°	3530.9	1288.7	72.4	57.8	47.8	39.2	33.2	29.9	26.6	25.9	25.2
62.5°	3098.6	997.2	63.7	51.1	41.8	33.9	28.5	24.6	21.9	21.9	21.9
65°	2363.7	668.6	55.8	44.5	36.5	28.5	24.6	19.9	18.6	18.6	19.3
67.5°	1414.9	363.8	47.8	37.8	31.2	23.9	20.6	17.3	16.6	17.3	17.3
69°	829.3	213.8	43.2	33.9	27.2	21.2	17.9	15.3	16.6	17.3	17.3
70°	511.9	144.1	39.8	30.5	24.6	19.3	16.6	14.6	15.9	16.6	16.6
72.5°	142.7	74.4	31.9	23.9	19.9	15.9	13.3	13.3	15.3	15.9	15.9
75°	93.0	55.1	24.6	17.9	15.3	12.6	11.3	12.6	14.6	15.3	15.3
77.5°	77.0	45.1	19.9	14.6	12.6	12.0	10.6	11.3	13.3	13.9	13.9
80°	70.4	31.9	15.9	13.3	11.3	10.6	10.0	9.3	12.0	12.6	12.6
82.5°	67.1	25.2	13.9	12.0	10.6	9.3	8.6	9.3	10.6	11.3	12.0
85°	41.8	16.6	12.6	11.3	9.3	8.6	8.6	8.6	10.0	10.6	10.6
87.5°	15.3	13.3	11.3	9.3	8.0	8.0	8.0	8.0	8.6	10.0	10.0
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)