

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: P191050

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10318.5 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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

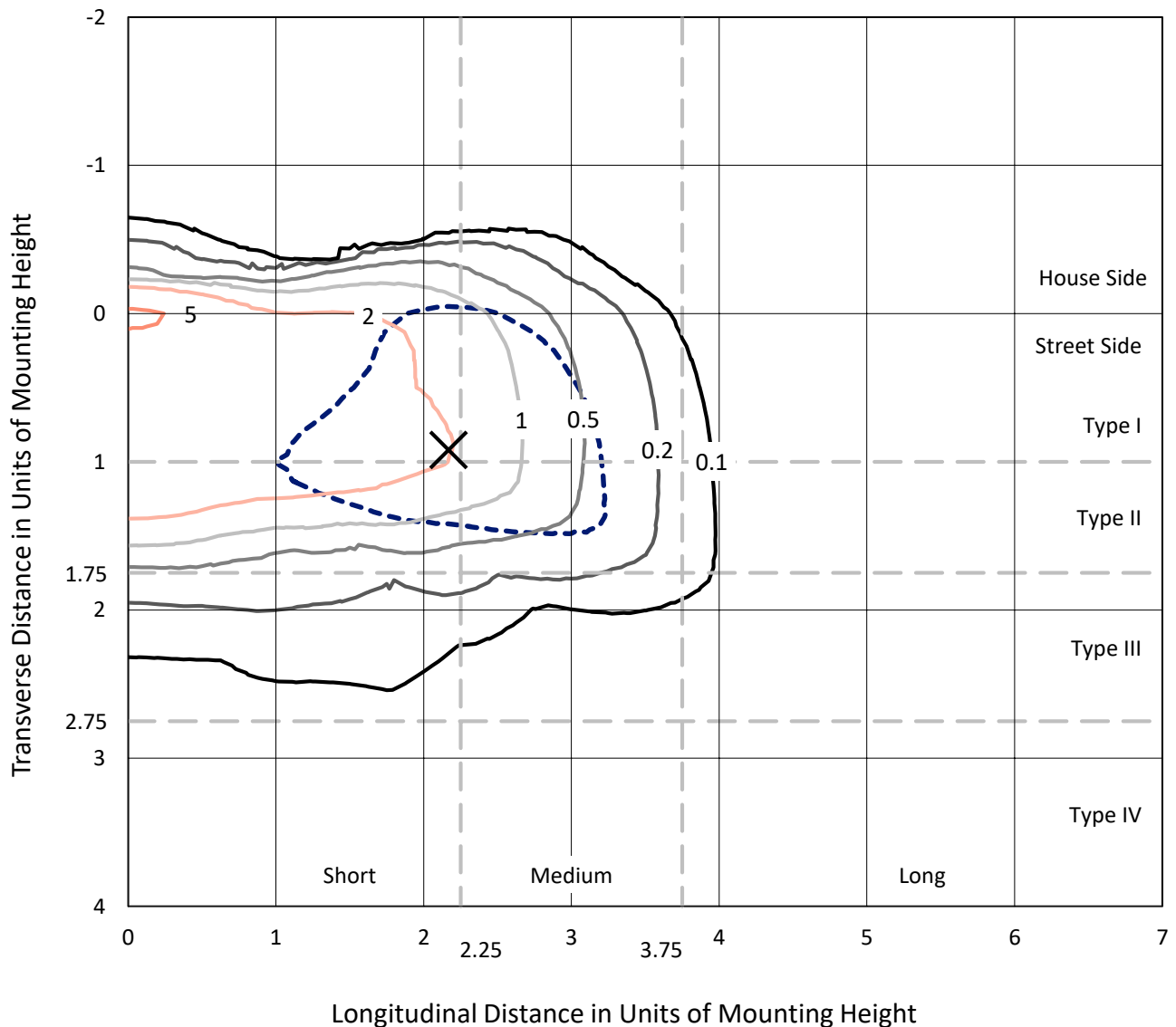


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Iso-Footcandle Lines of Horizontal Illumination

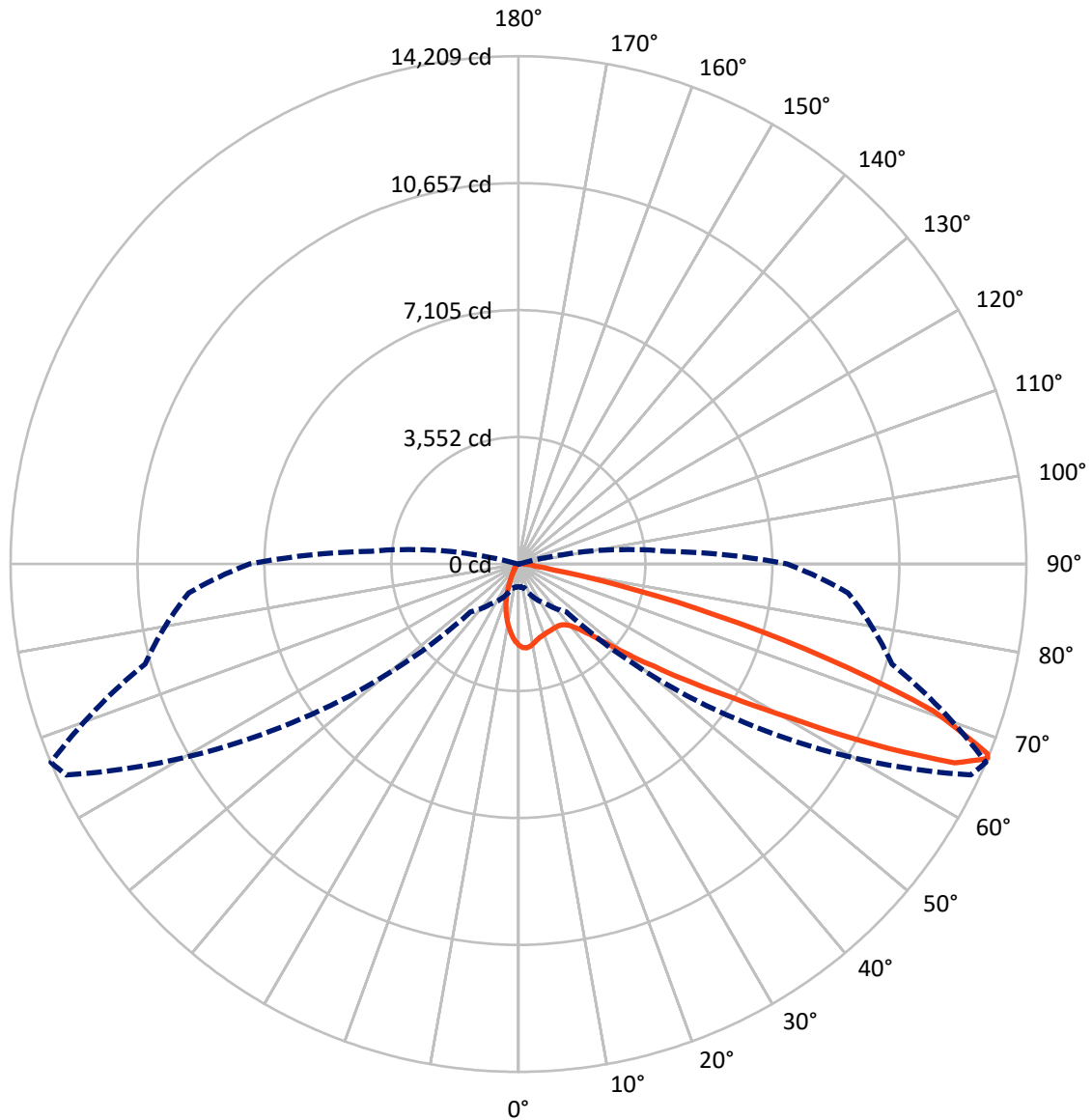
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.4	0.0	1071.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9247.1	0.0	9247.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	10318.5	0.0	10318.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.8
10°-20°	394.1	3.8
20°-30°	573.0	5.6
30°-40°	893.9	8.7
40°-50°	1583.5	15.3
50°-60°	2505.7	24.3
60°-70°	2869.9	27.8
70°-80°	1190.4	11.5
80°-90°	123.0	1.2
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°	10318.5	100.0
0°-180°	10318.5	100.0



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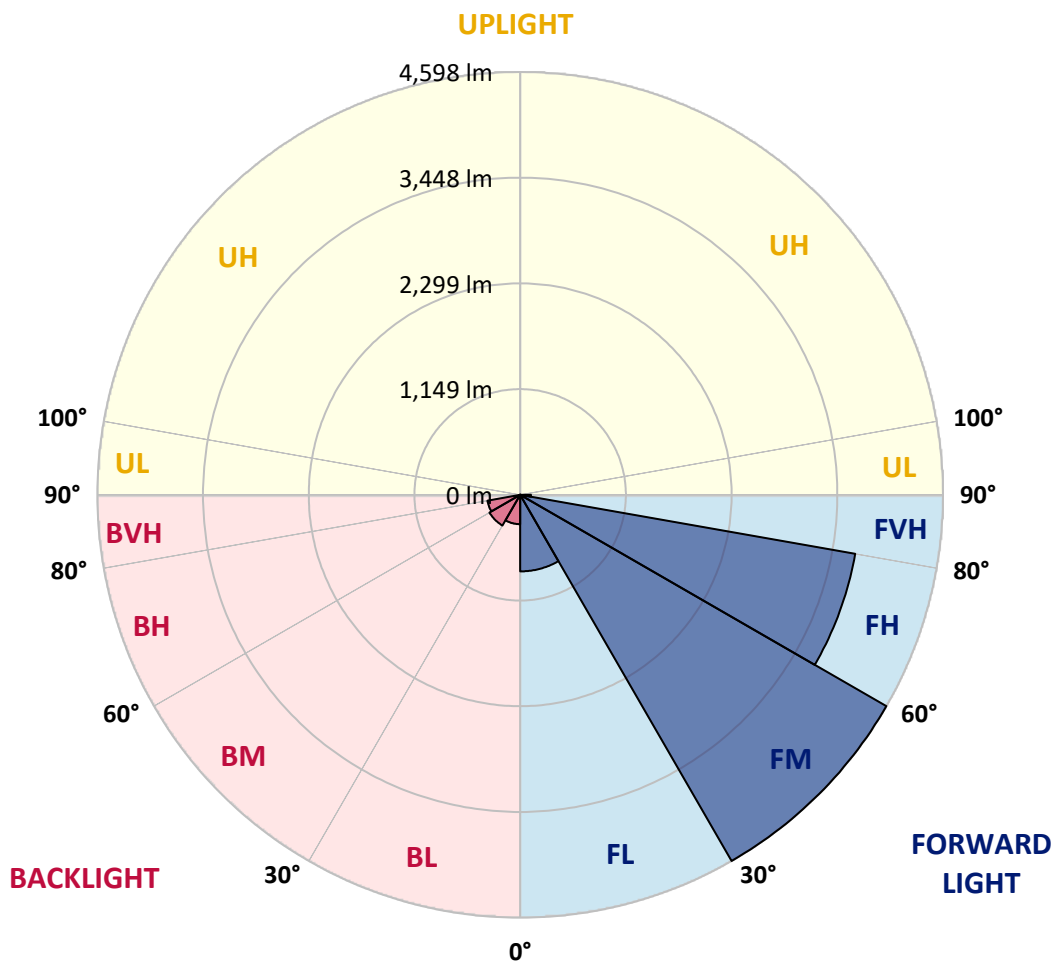
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.5	8.1			
FM (30°-60°)	4598.0	44.6			
FH (60°-80°)	3699.2	35.9			G2/5000
FVH (80°-90°)	117.4	1.1			G2/225
BL (0°-30°)	319.7	3.1	B1/500		
BM (30°-60°)	385.0	3.7	B1/1000		
BH (60°-80°)	361.1	3.5	B1/500		G1/500
BVH (80°-90°)	5.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7
2.5°	2352.7	2357.5	2356.9	2360.5	2368.9	2369.5	2361.1	2344.8	2341.2	2320.2	2283.4
5°	2169.7	2183.5	2192.0	2226.2	2264.8	2311.2	2346.0	2358.6	2356.9	2341.8	2286.4
7.5°	1960.8	1974.7	1984.3	2024.6	2075.8	2155.3	2246.1	2320.8	2327.4	2343.6	2284.0
10°	1821.8	1824.2	1837.4	1876.0	1929.6	2010.8	2119.1	2249.8	2269.6	2329.2	2278.0
12.5°	1707.5	1709.2	1726.7	1768.3	1825.5	1907.3	2021.0	2172.1	2202.8	2311.2	2276.8
15°	1626.2	1632.8	1648.5	1691.9	1752.6	1833.8	1950.6	2115.0	2151.7	2304.5	2287.6
17.5°	1599.1	1606.3	1611.1	1642.4	1697.8	1777.3	1897.1	2077.6	2119.1	2308.1	2308.7
20°	1627.4	1632.8	1622.0	1629.9	1664.1	1735.1	1852.0	2045.7	2095.1	2312.3	2335.8
22.5°	1732.8	1735.1	1705.7	1671.4	1665.4	1704.4	1816.4	2020.4	2073.4	2323.7	2367.7
25°	1913.3	1909.1	1861.0	1786.9	1717.1	1699.0	1795.4	2004.8	2062.6	2335.8	2400.8
27.5°	2131.2	2137.1	2071.0	1963.2	1830.3	1735.1	1792.3	1998.1	2057.8	2344.2	2429.7
30°	2396.0	2404.4	2328.5	2193.2	2002.3	1824.2	1820.0	1996.9	2054.7	2338.8	2432.1
32.5°	2666.2	2676.4	2616.9	2477.3	2232.3	1973.5	1882.6	2010.2	2060.7	2320.2	2418.3
35°	2949.1	2963.5	2923.8	2804.0	2544.1	2188.9	1992.7	2050.5	2089.1	2318.3	2404.4
37.5°	3339.7	3352.9	3278.3	3151.3	2921.4	2477.8	2169.7	2126.3	2155.9	2347.3	2408.0
40°	3922.9	3921.1	3728.5	3534.1	3336.0	2844.9	2418.3	2263.6	2278.6	2434.5	2452.5
42.5°	4558.5	4555.4	4270.7	3975.3	3796.5	3297.0	2745.1	2500.7	2490.5	2595.2	2568.1
45°	5048.4	5047.8	4815.4	4482.6	4350.8	3815.7	3167.6	2830.5	2814.9	2856.4	2781.2
47.5°	5257.1	5260.8	5144.0	4910.0	4965.3	4517.6	3700.2	3308.4	3284.9	3268.0	3153.8
50°	5094.7	5102.0	5111.6	5065.9	5416.1	5460.6	4414.6	3981.8	3970.5	3895.2	3716.5
52.5°	4563.9	4600.6	4713.8	4858.8	5572.5	6365.8	5534.7	4818.4	4757.0	4677.0	4480.2
55°	3669.5	3709.8	3924.7	4276.8	5339.7	6960.5	7104.3	5897.0	5794.6	5555.7	5271.7
57.5°	2428.5	2491.1	2802.9	3250.6	4663.1	7056.1	8670.3	7393.8	7037.5	6383.3	6063.1
60°	1337.9	1398.1	1736.4	2142.0	3368.0	6583.1	9723.6	9342.6	8713.1	7308.3	7024.2
62.5°	824.0	856.4	1106.2	1483.6	2019.8	5195.8	9941.4	11791.6	11062.7	8499.4	8185.2
65°	656.0	669.8	792.1	1212.7	1448.1	3090.5	9237.9	13658.4	13415.3	9941.4	9224.7
67°	636.8	642.2	700.0	1041.2	1365.0	1894.6	7739.2	13962.5	14209.2	10814.1	9257.1
67.5°	641.0	647.0	701.7	993.7	1362.6	1741.2	7222.9	13842.7	14154.4	10883.4	9113.3
70°	618.1	636.8	803.4	993.1	1295.8	1446.9	4325.5	11993.8	12318.2	10112.4	7732.6
72.5°	219.1	220.2	347.3	803.4	1408.9	1462.5	2172.1	8792.5	9032.7	7735.7	5575.0
75°	130.0	110.8	115.6	228.7	1346.3	1420.4	1253.0	5618.4	5708.0	4432.7	2823.3
77.5°	89.7	78.3	80.6	101.1	512.8	1400.5	995.4	2929.8	2834.1	1554.6	601.3
80°	51.1	45.1	48.2	88.5	186.6	1306.6	938.9	1188.1	1012.9	263.6	166.1
82.5°	27.1	22.9	27.7	72.8	130.0	814.3	940.7	574.2	455.0	89.1	113.1
85°	9.6	7.8	13.2	49.9	86.6	249.8	872.1	482.7	379.2	43.4	86.0
87.5°	1.8	1.8	5.4	20.5	34.9	76.4	515.8	286.5	192.0	25.9	59.0
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°	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7	2275.7
2.5°	2268.4	2242.5	2207.6	2164.9	2114.3	2069.7	2036.7	2002.3	1995.2	1983.1	1981.4
5°	2253.4	2208.8	2122.1	2022.8	1916.9	1821.3	1743.6	1674.4	1643.7	1617.2	1614.2
7.5°	2231.1	2164.3	2016.8	1856.8	1691.2	1540.8	1413.1	1322.9	1239.8	1200.1	1194.1
10°	2205.2	2109.5	1898.3	1676.2	1447.5	1235.0	1045.5	886.5	790.2	733.0	725.9
12.5°	2181.1	2055.9	1777.3	1489.0	1185.1	901.0	657.2	505.5	404.5	363.6	358.7
15°	2169.7	2012.6	1664.1	1297.6	910.6	573.6	359.3	278.0	245.0	235.3	234.8
17.5°	2168.5	1975.9	1553.4	1099.6	638.0	333.4	234.2	213.7	207.0	204.6	204.6
20°	2167.8	1940.9	1442.7	894.4	405.1	222.1	195.0	190.2	185.4	182.4	182.4
22.5°	2174.5	1909.6	1327.1	684.9	255.2	179.9	171.5	166.7	160.7	156.5	155.9
25°	2181.1	1885.6	1209.1	487.5	184.7	156.5	148.0	141.5	133.0	127.6	126.9
27.5°	2182.4	1855.5	1082.7	326.2	154.7	136.7	125.8	115.6	105.9	100.6	99.9
30°	2164.3	1805.0	942.5	220.2	136.7	118.6	104.1	93.3	84.3	80.1	80.1
32.5°	2128.8	1742.4	788.4	166.1	121.5	101.7	86.0	75.8	69.8	68.0	67.4
35°	2096.8	1675.0	630.1	140.9	108.9	86.0	70.4	63.8	60.1	59.5	59.0
37.5°	2078.2	1620.8	481.5	127.6	96.9	72.2	59.5	54.7	53.0	51.8	52.4
40°	2092.7	1575.7	355.7	116.7	84.9	60.1	50.5	48.2	46.3	45.7	45.7
42.5°	2155.9	1567.9	264.2	107.1	73.4	49.9	43.9	42.1	40.9	40.3	40.9
45°	2322.0	1616.0	205.2	98.1	62.0	42.1	37.3	36.7	36.1	36.1	36.1
47.5°	2571.7	1715.3	170.9	87.9	51.8	36.1	32.5	31.9	31.3	31.9	31.9
50°	2994.8	1897.1	152.8	77.6	42.8	30.7	27.7	27.7	27.7	27.7	28.3
52.5°	3638.2	2254.6	140.9	67.4	34.9	25.9	23.4	23.4	24.0	24.0	24.7
55°	4355.0	2728.8	130.0	57.2	29.5	21.7	19.2	19.8	20.5	21.1	21.1
57.5°	5132.7	3254.2	121.0	47.0	25.3	17.5	16.3	16.9	17.5	18.6	18.6
60°	6070.9	3823.0	107.7	36.7	21.1	13.8	12.7	13.8	15.7	16.9	17.5
62.5°	7101.3	4373.1	90.8	28.8	17.5	10.8	10.2	12.7	15.0	16.3	16.9
65°	7805.4	4545.8	69.8	23.4	13.2	7.8	8.4	11.5	14.4	16.3	16.3
67°	7520.1	4121.5	57.2	19.8	10.8	6.0	7.8	11.5	14.4	15.7	16.3
67.5°	7322.2	3955.3	54.7	19.2	10.2	6.0	7.8	11.5	14.4	16.3	16.3
70°	5957.8	2971.4	45.7	14.4	8.4	5.4	6.6	10.8	13.8	15.7	15.7
72.5°	4139.6	1832.0	40.9	10.2	7.3	4.8	6.0	10.2	13.2	15.0	15.7
75°	1968.1	663.3	34.9	7.8	6.6	4.2	5.4	10.2	13.2	15.0	15.0
77.5°	401.4	154.1	28.3	6.6	5.4	4.2	4.8	9.6	12.7	14.4	14.4
80°	131.8	59.5	21.1	6.0	5.4	4.2	4.8	9.0	12.7	13.8	14.4
82.5°	95.1	30.1	13.8	6.0	5.4	4.2	4.2	9.0	12.1	13.8	13.8
85°	72.8	21.1	9.0	6.0	5.4	4.2	4.2	8.4	11.5	13.2	13.2
87.5°	48.2	8.4	7.3	6.0	5.4	4.2	4.2	8.4	10.8	12.7	13.2
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)