

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: P191831

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191831
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-03-LED-E1-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA 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: 9917 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

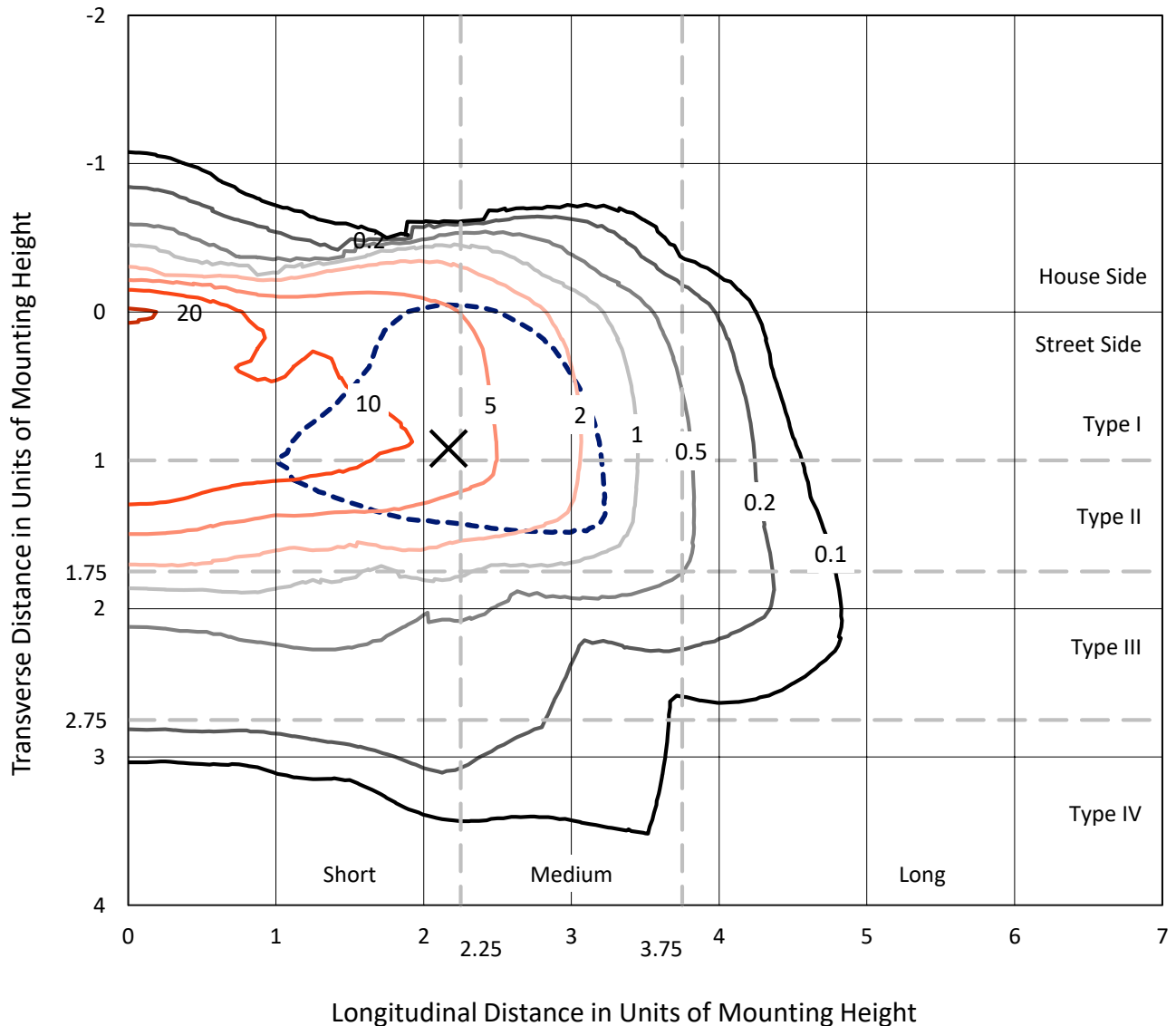


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

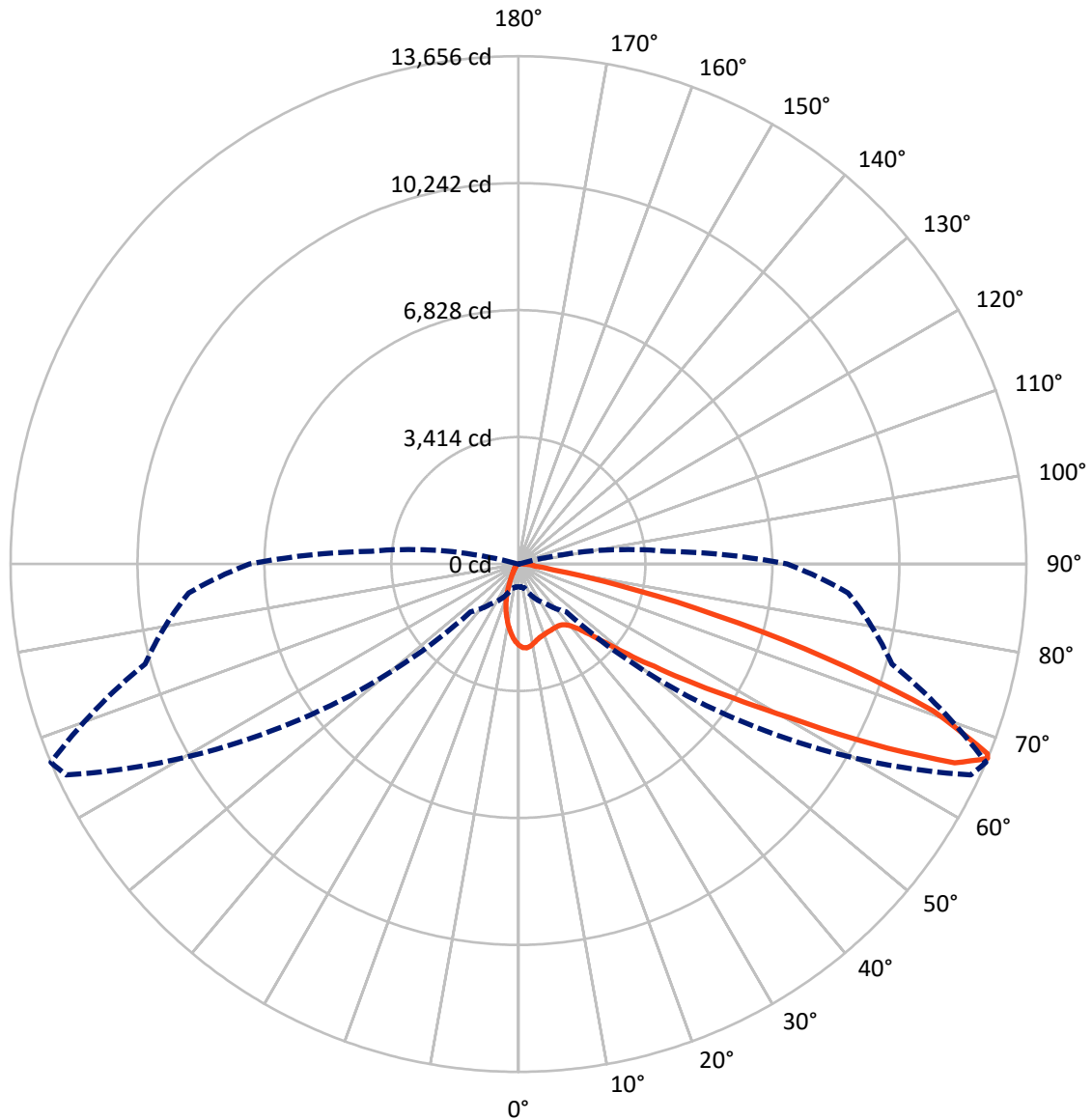


Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - Semi-Cutoff

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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	1029.7	0.0	1029.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8887.3	0.0	8887.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	9917.0	0.0	9917.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	1.8
10°-20°	378.8	3.8
20°-30°	550.7	5.6
30°-40°	859.1	8.7
40°-50°	1521.8	15.3
50°-60°	2408.2	24.3
60°-70°	2758.2	27.8
70°-80°	1144.1	11.5
80°-90°	118.2	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°	9917.0	100.0
0°-180°	9917.0	100.0



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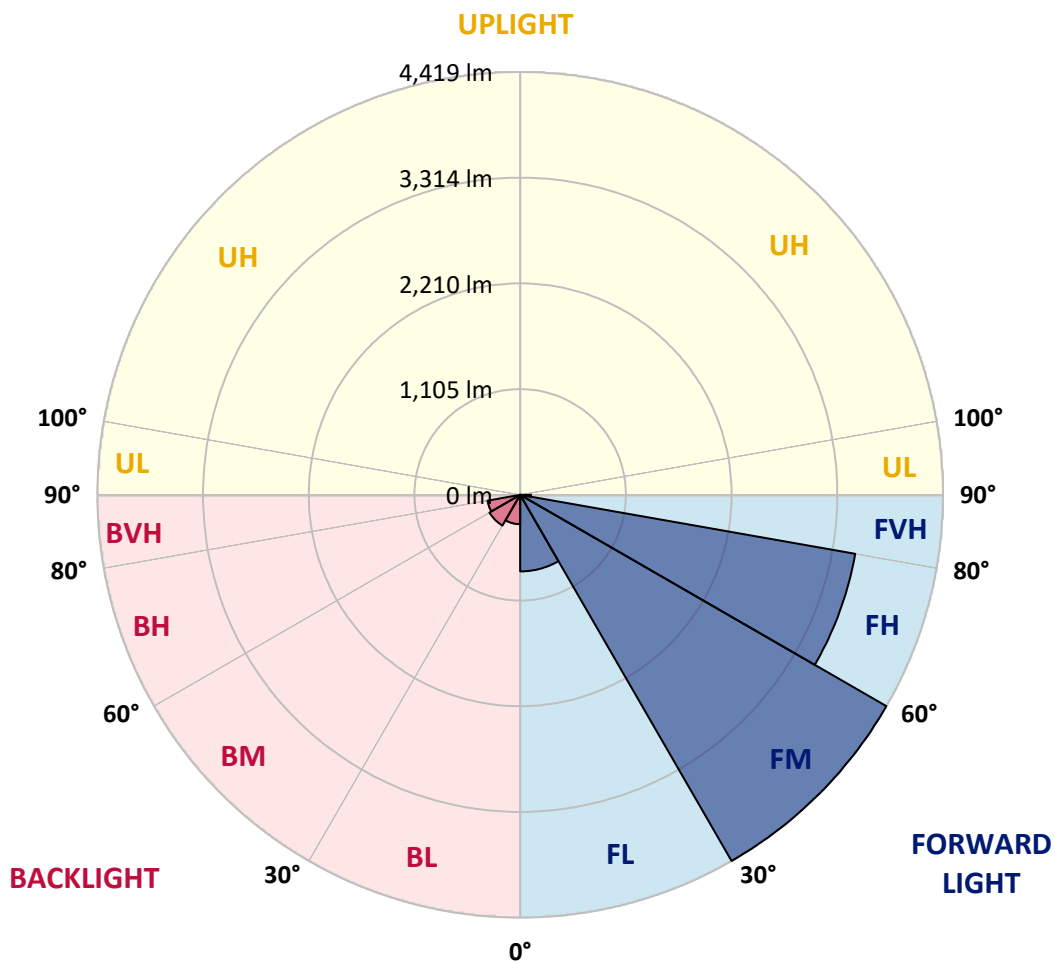
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.2	8.1			
FM (30°-60°)	4419.0	44.6			
FH (60°-80°)	3555.3	35.9			G2/5000
FVH (80°-90°)	112.9	1.1			G2/225
BL (0°-30°)	307.3	3.1	B1/500		
BM (30°-60°)	370.1	3.7	B1/1000		
BH (60°-80°)	347.0	3.5	B1/500		G1/500
BVH (80°-90°)	5.3	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°	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1
2.5°	2261.1	2265.7	2265.2	2268.6	2276.7	2277.3	2269.2	2253.6	2250.1	2229.9	2194.6
5°	2085.3	2098.6	2106.7	2139.6	2176.7	2221.2	2254.7	2266.9	2265.2	2250.7	2197.5
7.5°	1884.5	1897.8	1907.1	1945.9	1995.0	2071.4	2158.7	2230.4	2236.8	2252.4	2195.2
10°	1750.9	1753.2	1766.0	1803.0	1854.5	1932.6	2036.7	2162.2	2181.3	2238.5	2189.4
12.5°	1641.0	1642.8	1659.5	1699.4	1754.4	1833.1	1942.4	2087.6	2117.1	2221.2	2188.2
15°	1562.9	1569.3	1584.3	1626.0	1684.4	1762.5	1874.7	2032.6	2067.9	2214.8	2198.6
17.5°	1536.9	1543.8	1548.5	1578.6	1631.8	1708.1	1823.2	1996.8	2036.7	2218.3	2218.9
20°	1564.1	1569.3	1558.9	1566.4	1599.4	1667.6	1779.8	1966.1	2013.5	2222.3	2244.9
22.5°	1665.3	1667.6	1639.3	1606.3	1600.5	1638.1	1745.7	1941.8	1992.7	2233.3	2275.6
25°	1838.8	1834.8	1788.5	1717.4	1650.3	1632.9	1725.5	1926.8	1982.3	2244.9	2307.4
27.5°	2048.2	2054.0	1990.4	1886.9	1759.0	1667.6	1722.6	1920.4	1977.7	2253.0	2335.1
30°	2302.8	2310.8	2238.0	2107.8	1924.5	1753.2	1749.2	1919.2	1974.8	2247.8	2337.5
32.5°	2562.5	2572.3	2515.0	2380.8	2145.4	1896.7	1809.3	1932.0	1980.6	2229.9	2324.2
35°	2834.3	2848.2	2810.0	2694.9	2445.0	2103.8	1915.2	1970.7	2007.7	2228.1	2310.8
37.5°	3209.7	3222.5	3150.7	3028.7	2807.7	2381.4	2085.3	2043.6	2072.0	2255.9	2314.3
40°	3770.2	3768.5	3583.4	3396.6	3206.3	2734.3	2324.2	2175.5	2190.0	2339.8	2357.1
42.5°	4381.1	4378.2	4104.6	3820.6	3648.8	3168.7	2638.2	2403.4	2393.6	2494.2	2468.2
45°	4851.9	4851.3	4628.1	4308.2	4181.5	3667.3	3044.3	2720.4	2705.3	2745.3	2673.0
47.5°	5052.6	5056.1	4943.9	4718.9	4772.1	4341.7	3556.2	3179.7	3157.1	3140.9	3031.0
50°	4896.5	4903.4	4912.7	4868.7	5205.3	5248.1	4242.8	3826.9	3815.9	3743.6	3571.8
52.5°	4386.3	4421.6	4530.3	4669.7	5355.7	6118.1	5319.3	4631.0	4572.0	4495.0	4305.9
55°	3526.7	3565.5	3772.0	4110.4	5131.9	6689.6	6827.9	5667.5	5569.2	5339.5	5066.5
57.5°	2334.0	2394.1	2693.8	3124.1	4481.7	6781.6	8332.9	7106.1	6763.6	6134.9	5827.2
60°	1285.9	1343.7	1668.8	2058.7	3236.9	6326.9	9345.2	8979.1	8374.0	7023.9	6750.9
62.5°	791.9	823.1	1063.2	1425.8	1941.2	4993.6	9554.6	11332.7	10632.2	8168.7	7866.7
65°	630.5	643.8	761.2	1165.5	1391.7	2970.3	8878.4	13127.0	12893.3	9554.6	8865.7
67°	612.0	617.2	672.7	1000.7	1311.9	1820.9	7438.1	13419.1	13656.3	10393.3	8896.9
67.5°	616.0	621.8	674.5	955.0	1309.6	1673.4	6941.8	13304.0	13603.6	10459.8	8758.7
70°	594.1	612.0	772.2	954.4	1245.4	1390.6	4157.2	11527.1	11838.8	9718.9	7431.7
72.5°	210.6	211.7	333.8	772.2	1354.1	1405.6	2087.6	8450.4	8681.2	7434.6	5358.0
75°	124.9	106.4	111.1	219.8	1294.0	1365.1	1204.3	5399.7	5485.9	4260.2	2713.4
77.5°	86.2	75.2	77.5	97.2	492.8	1346.0	956.7	2815.8	2723.9	1494.1	577.9
80°	49.2	43.4	46.3	85.0	179.3	1255.8	902.4	1141.8	973.5	253.4	159.6
82.5°	26.0	22.0	26.6	70.0	124.9	782.6	904.1	551.8	437.3	85.6	108.7
85°	9.3	7.5	12.7	48.0	83.3	240.1	838.2	463.9	364.4	41.6	82.7
87.5°	1.7	1.7	5.2	19.7	33.5	73.5	495.7	275.3	184.5	24.9	56.7
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°	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1	2187.1
2.5°	2180.1	2155.3	2121.7	2080.6	2032.0	1989.2	1957.4	1924.5	1917.5	1905.9	1904.2
5°	2165.7	2122.9	2039.6	1944.1	1842.3	1750.3	1675.7	1609.2	1579.7	1554.3	1551.4
7.5°	2144.3	2080.1	1938.3	1784.5	1625.4	1480.8	1358.2	1271.4	1191.6	1153.4	1147.6
10°	2119.4	2027.4	1824.4	1610.9	1391.1	1186.9	1004.7	852.0	759.5	704.5	697.6
12.5°	2096.3	1975.9	1708.1	1431.0	1138.9	865.9	631.7	485.9	388.7	349.4	344.7
15°	2085.3	1934.3	1599.4	1247.1	875.2	551.2	345.3	267.2	235.4	226.2	225.6
17.5°	2084.1	1899.0	1492.9	1056.8	613.1	320.5	225.0	205.3	199.0	196.7	196.7
20°	2083.5	1865.5	1386.5	859.6	389.3	213.4	187.4	182.8	178.2	175.3	175.3
22.5°	2089.9	1835.4	1275.5	658.3	245.3	173.0	164.9	160.2	154.4	150.4	149.8
25°	2096.3	1812.2	1162.1	468.5	177.6	150.4	142.3	135.9	127.8	122.6	122.0
27.5°	2097.4	1783.3	1040.6	313.5	148.7	131.3	120.9	111.1	101.8	96.6	96.0
30°	2080.1	1734.7	905.8	211.7	131.3	114.0	100.1	89.7	81.0	76.9	76.9
32.5°	2045.9	1674.6	757.8	159.6	116.8	97.8	82.7	72.9	67.1	65.4	64.8
35°	2015.3	1609.8	605.6	135.4	104.7	82.7	67.7	61.3	57.8	57.3	56.7
37.5°	1997.3	1557.7	462.7	122.6	93.1	69.4	57.3	52.6	50.9	49.7	50.3
40°	2011.2	1514.3	341.9	112.2	81.6	57.8	48.6	46.3	44.5	44.0	44.0
42.5°	2072.0	1506.8	253.9	103.0	70.6	48.0	42.2	40.5	39.3	38.8	39.3
45°	2231.6	1553.1	197.2	94.3	59.6	40.5	35.9	35.3	34.7	34.7	34.7
47.5°	2471.7	1648.5	164.3	84.5	49.7	34.7	31.2	30.7	30.1	30.7	30.7
50°	2878.3	1823.2	146.9	74.6	41.1	29.5	26.6	26.6	26.6	26.6	27.2
52.5°	3496.6	2166.8	135.4	64.8	33.5	24.9	22.6	22.6	23.1	23.1	23.7
55°	4185.6	2622.6	124.9	55.0	28.3	20.8	18.5	19.1	19.7	20.2	20.2
57.5°	4932.9	3127.6	116.3	45.1	24.3	16.8	15.6	16.2	16.8	17.9	17.9
60°	5834.7	3674.2	103.5	35.3	20.2	13.3	12.1	13.3	15.0	16.2	16.8
62.5°	6825.0	4202.9	87.3	27.8	16.8	10.4	9.8	12.1	14.5	15.6	16.2
65°	7501.7	4368.9	67.1	22.6	12.7	7.5	8.1	11.0	13.9	15.6	15.6
67°	7227.6	3961.1	55.0	19.1	10.4	5.8	7.5	11.0	13.9	15.0	15.6
67.5°	7037.2	3801.5	52.6	18.5	9.8	5.8	7.5	11.0	13.9	15.6	15.6
70°	5725.9	2855.7	44.0	13.9	8.1	5.2	6.4	10.4	13.3	15.0	15.0
72.5°	3978.5	1760.8	39.3	9.8	6.9	4.6	5.8	9.8	12.7	14.5	15.0
75°	1891.5	637.4	33.5	7.5	6.4	4.0	5.2	9.8	12.7	14.5	14.5
77.5°	385.8	148.1	27.2	6.4	5.2	4.0	4.6	9.3	12.1	13.9	13.9
80°	126.7	57.3	20.2	5.8	5.2	4.0	4.6	8.7	12.1	13.3	13.9
82.5°	91.4	28.9	13.3	5.8	5.2	4.0	4.0	8.7	11.6	13.3	13.3
85°	70.0	20.2	8.7	5.8	5.2	4.0	4.0	8.1	11.0	12.7	12.7
87.5°	46.3	8.1	6.9	5.8	5.2	4.0	4.0	8.1	10.4	12.1	12.7
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)