

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: P269072

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269072
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-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8763.6 lumens
Efficiency: N/A
Efficacy: 77.6 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

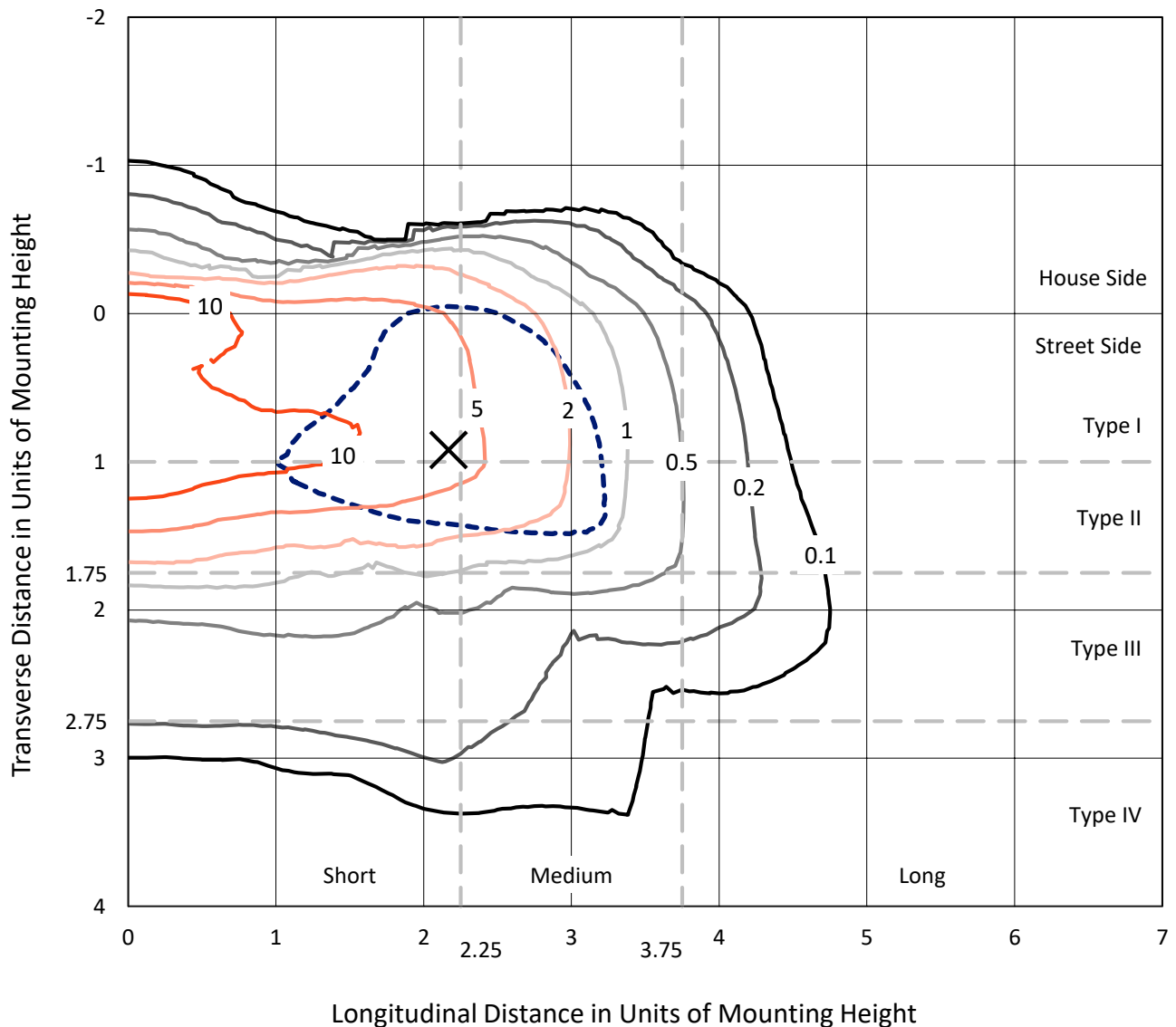


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Iso-Footcandle Lines of Horizontal Illumination

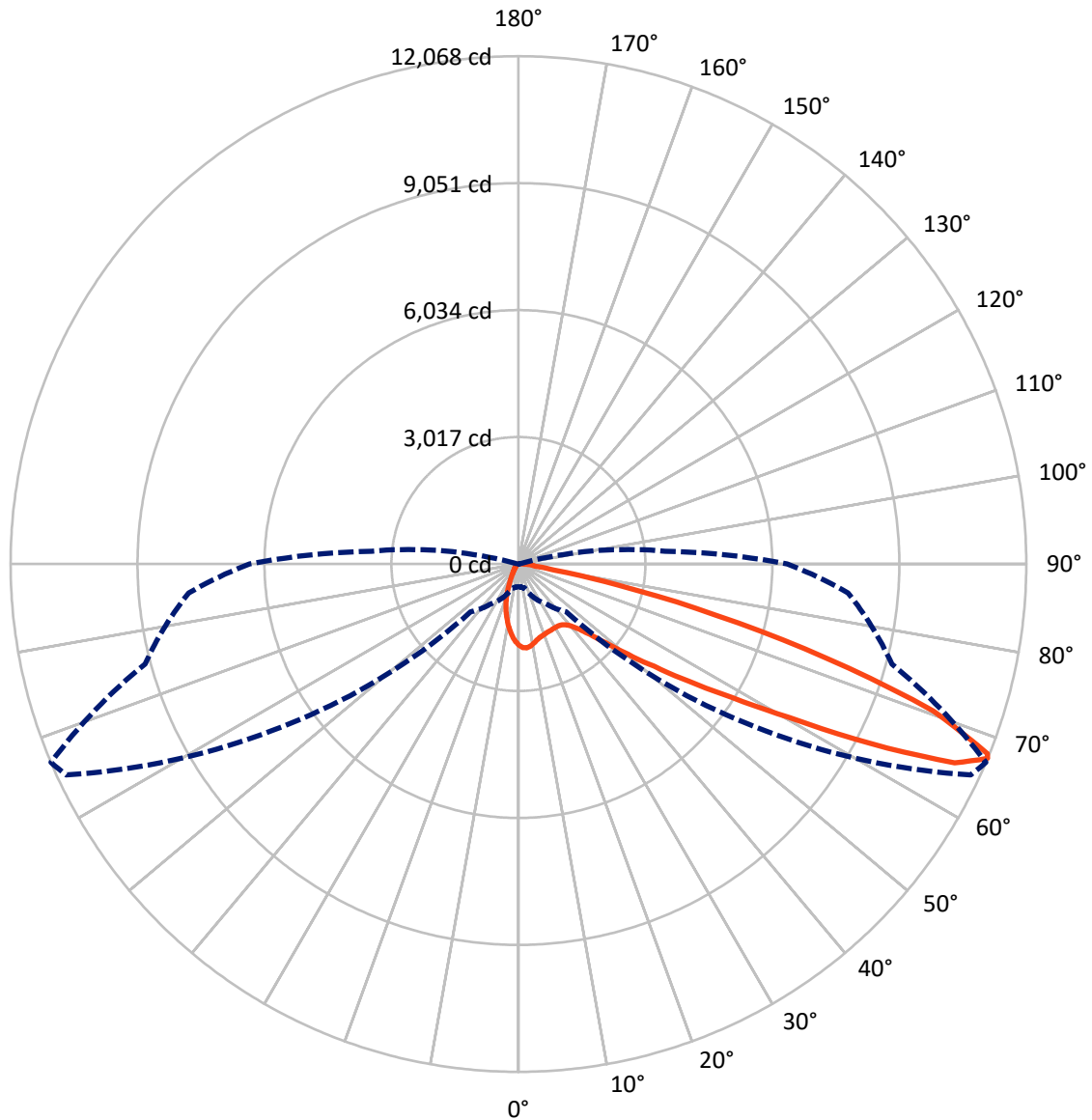
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.3 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	909.9	0.0	909.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7853.7	0.0	7853.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	8763.6	0.0	8763.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.8
10°-20°	334.7	3.8
20°-30°	486.6	5.6
30°-40°	759.2	8.7
40°-50°	1344.8	15.3
50°-60°	2128.1	24.3
60°-70°	2437.4	27.8
70°-80°	1011.0	11.5
80°-90°	104.4	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°	8763.6	100.0
0°-180°	8763.6	100.0



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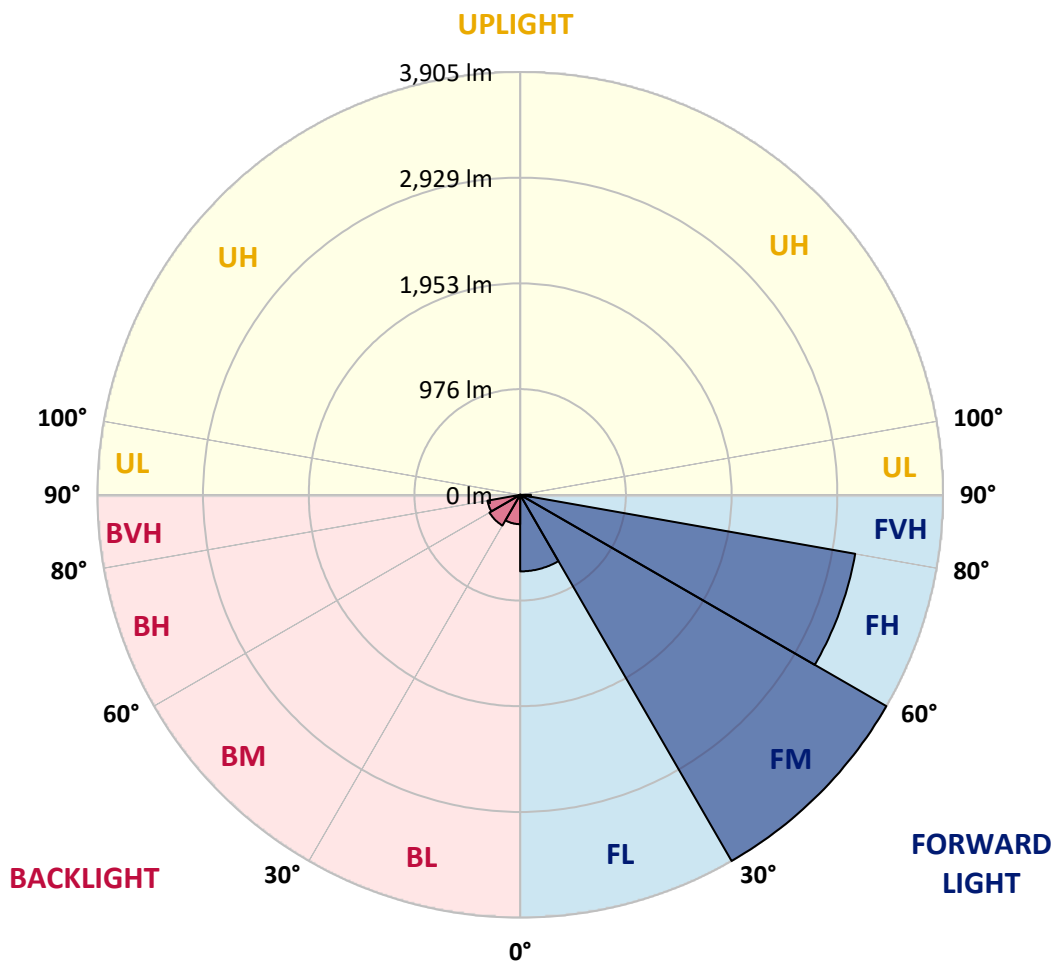
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.1	8.1			
FM	(30°-60°)	3905.1	44.6			
FH	(60°-80°)	3141.8	35.9			G2/5000
FVH	(80°-90°)	99.7	1.1			G1/100
BL	(0°-30°)	271.5	3.1	B1/500		
BM	(30°-60°)	327.0	3.7	B1/1000		
BH	(60°-80°)	306.7	3.5	B1/500		G1/500
BVH	(80°-90°)	4.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1998.1	2002.2	2001.8	2004.7	2011.9	2012.5	2005.2	1991.5	1988.4	1970.5	1939.4
5°	1842.8	1854.6	1861.6	1890.8	1923.5	1962.8	1992.5	2003.2	2001.8	1988.9	1941.9
7.5°	1665.4	1677.1	1685.3	1719.5	1763.1	1830.4	1907.7	1971.1	1976.7	1990.5	1939.9
10°	1547.3	1549.3	1560.5	1593.4	1638.8	1707.8	1799.8	1910.8	1927.7	1978.2	1934.8
12.5°	1450.1	1451.8	1466.6	1501.7	1550.4	1619.9	1716.5	1844.8	1870.9	1962.8	1933.7
15°	1381.1	1386.9	1400.1	1436.8	1488.5	1557.5	1656.7	1796.3	1827.4	1957.2	1942.9
17.5°	1358.1	1364.3	1368.4	1395.0	1442.0	1509.4	1611.2	1764.5	1799.8	1960.3	1960.8
20°	1382.2	1386.9	1377.6	1384.2	1413.4	1473.7	1572.8	1737.4	1779.4	1963.9	1983.8
22.5°	1471.7	1473.7	1448.6	1419.5	1414.4	1447.6	1542.7	1716.0	1760.9	1973.5	2010.9
25°	1624.9	1621.4	1580.5	1517.6	1458.4	1442.9	1524.9	1702.6	1751.8	1983.8	2039.1
27.5°	1810.1	1815.1	1758.9	1667.4	1554.4	1473.7	1522.3	1697.1	1747.7	1991.0	2063.5
30°	2034.9	2042.0	1977.7	1862.6	1700.6	1549.3	1545.8	1696.0	1745.0	1986.4	2065.7
32.5°	2264.4	2273.2	2222.5	2103.9	1896.0	1676.1	1599.0	1707.3	1750.2	1970.5	2053.9
35°	2504.7	2517.1	2483.3	2381.4	2160.8	1859.1	1692.4	1741.5	1774.2	1969.1	2042.0
37.5°	2836.5	2847.6	2784.2	2676.4	2481.2	2104.5	1842.8	1806.0	1830.9	1993.6	2045.3
40°	3331.8	3330.2	3166.6	3001.5	2833.3	2416.4	2053.9	1922.6	1935.3	2067.7	2083.0
42.5°	3871.5	3869.0	3627.3	3376.2	3224.5	2800.1	2331.5	2124.0	2115.1	2204.1	2181.2
45°	4287.6	4287.2	4089.9	3807.1	3695.2	3240.7	2690.2	2404.0	2390.7	2426.1	2362.2
47.5°	4465.0	4468.1	4368.8	4170.0	4217.2	3836.8	3142.6	2809.9	2790.0	2775.7	2678.4
50°	4327.0	4333.2	4341.2	4302.4	4600.0	4637.8	3749.3	3381.8	3372.1	3308.3	3156.5
52.5°	3876.1	3907.4	4003.4	4126.6	4732.9	5406.5	4700.7	4092.4	4040.2	3972.2	3805.1
55°	3116.6	3150.9	3333.3	3632.3	4535.1	5911.6	6033.7	5008.4	4921.5	4718.5	4477.3
57.5°	2062.6	2115.7	2380.5	2760.9	3960.4	5993.0	7363.9	6279.6	5977.1	5421.5	5149.4
60°	1136.4	1187.4	1474.7	1819.2	2860.5	5591.1	8258.4	7934.8	7400.1	6207.1	5965.7
62.5°	699.8	727.4	939.4	1260.1	1715.5	4412.8	8443.3	10014.8	9395.7	7218.6	6951.9
65°	557.2	568.9	672.7	1029.9	1229.9	2624.8	7845.8	11600.4	11393.8	8443.3	7834.6
67°	540.8	545.5	594.5	884.3	1159.4	1609.1	6573.1	11858.4	12068.1	9184.6	7862.1
67.5°	544.5	549.6	596.0	844.0	1157.2	1478.8	6134.4	11756.7	12021.6	9243.4	7740.1
70°	525.0	540.8	682.4	843.4	1100.6	1228.8	3673.7	10186.5	10462.0	8588.5	6567.4
72.5°	186.0	187.0	295.0	682.4	1196.6	1242.1	1844.8	7467.6	7671.5	6569.9	4734.8
75°	110.4	94.1	98.2	194.3	1143.5	1206.3	1064.2	4771.6	4847.9	3764.6	2397.8
77.5°	76.1	66.5	68.5	85.9	435.5	1189.4	845.5	2488.3	2407.1	1320.2	510.6
80°	43.5	38.4	41.0	75.2	158.6	1109.8	797.4	1009.1	860.2	223.9	141.0
82.5°	22.9	19.5	23.5	61.9	110.4	691.6	799.0	487.7	386.5	75.6	96.1
85°	8.2	6.6	11.3	42.4	73.7	212.1	740.7	409.9	322.0	36.8	73.1
87.5°	1.5	1.5	4.6	17.3	29.6	64.9	438.1	243.4	163.0	22.0	50.0
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°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1926.5	1904.5	1874.9	1838.7	1795.7	1758.0	1729.7	1700.6	1694.6	1684.3	1682.7
5°	1913.7	1876.0	1802.4	1718.0	1628.1	1546.8	1480.9	1422.0	1396.0	1373.5	1371.0
7.5°	1894.9	1838.1	1712.9	1577.0	1436.4	1308.7	1200.2	1123.5	1053.1	1019.2	1014.1
10°	1872.8	1791.6	1612.2	1423.5	1229.3	1049.0	887.9	752.9	671.2	622.5	616.4
12.5°	1852.5	1746.1	1509.4	1264.6	1006.6	765.1	558.1	429.4	343.5	308.7	304.6
15°	1842.8	1709.4	1413.4	1102.1	773.4	487.2	305.2	236.2	208.0	199.9	199.3
17.5°	1841.7	1678.2	1319.3	933.9	541.9	283.1	198.9	181.5	175.9	173.8	173.8
20°	1841.2	1648.5	1225.3	759.5	344.1	188.6	165.6	161.5	157.5	154.9	154.9
22.5°	1846.8	1621.9	1127.2	581.7	216.8	152.8	145.6	141.7	136.5	132.9	132.4
25°	1852.5	1601.5	1026.9	414.1	156.9	132.9	125.8	120.2	112.9	108.3	107.8
27.5°	1853.5	1575.9	919.5	277.0	131.3	116.1	106.8	98.2	90.0	85.3	84.9
30°	1838.1	1533.0	800.5	187.0	116.1	100.7	88.5	79.2	71.5	68.0	68.0
32.5°	1808.0	1479.8	669.6	141.0	103.2	86.3	73.1	64.4	59.3	57.9	57.2
35°	1780.9	1422.6	535.2	119.7	92.5	73.1	59.7	54.2	51.2	50.7	50.0
37.5°	1765.0	1376.6	408.9	108.3	82.4	61.4	50.7	46.5	44.9	43.9	44.5
40°	1777.2	1338.3	302.1	99.2	72.0	51.2	42.8	41.0	39.3	38.8	38.8
42.5°	1830.9	1331.6	224.3	91.0	62.3	42.4	37.3	35.8	34.8	34.2	34.8
45°	1972.0	1372.5	174.4	83.4	52.6	35.8	31.7	31.3	30.6	30.6	30.6
47.5°	2184.1	1456.8	145.2	74.6	43.9	30.6	27.6	27.0	26.6	27.0	27.0
50°	2543.6	1611.2	129.8	65.9	36.3	26.1	23.5	23.5	23.5	23.5	24.1
52.5°	3090.0	1914.7	119.7	57.2	29.6	22.0	19.9	19.9	20.4	20.4	21.0
55°	3698.9	2317.5	110.4	48.6	25.1	18.3	16.3	16.9	17.3	17.8	17.8
57.5°	4359.1	2763.8	102.8	39.9	21.5	14.8	13.8	14.4	14.8	15.8	15.8
60°	5156.1	3247.0	91.4	31.3	17.8	11.8	10.7	11.8	13.2	14.4	14.8
62.5°	6031.2	3714.1	77.2	24.6	14.8	9.3	8.8	10.7	12.8	13.8	14.4
65°	6629.3	3860.8	59.3	19.9	11.3	6.6	7.1	9.7	12.2	13.8	13.8
67°	6386.9	3500.4	48.6	16.9	9.3	5.1	6.6	9.7	12.2	13.2	13.8
67.5°	6218.7	3359.3	46.5	16.3	8.8	5.1	6.6	9.7	12.2	13.8	13.8
70°	5060.1	2523.6	38.8	12.2	7.1	4.6	5.6	9.3	11.8	13.2	13.2
72.5°	3515.7	1556.0	34.8	8.8	6.1	4.1	5.1	8.8	11.3	12.8	13.2
75°	1671.4	563.2	29.6	6.6	5.6	3.6	4.6	8.8	11.3	12.8	12.8
77.5°	340.9	130.9	24.1	5.6	4.6	3.6	4.1	8.2	10.7	12.2	12.2
80°	112.0	50.7	17.8	5.1	4.6	3.6	4.1	7.6	10.7	11.8	12.2
82.5°	80.8	25.5	11.8	5.1	4.6	3.6	3.6	7.6	10.2	11.8	11.8
85°	61.9	17.8	7.6	5.1	4.6	3.6	3.6	7.1	9.7	11.3	11.3
87.5°	41.0	7.1	6.1	5.1	4.6	3.6	3.6	7.1	9.3	10.7	11.3
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)