

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: P191991

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191991
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: GLEON-AF-03-LED-E1-SL4-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9718 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - 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

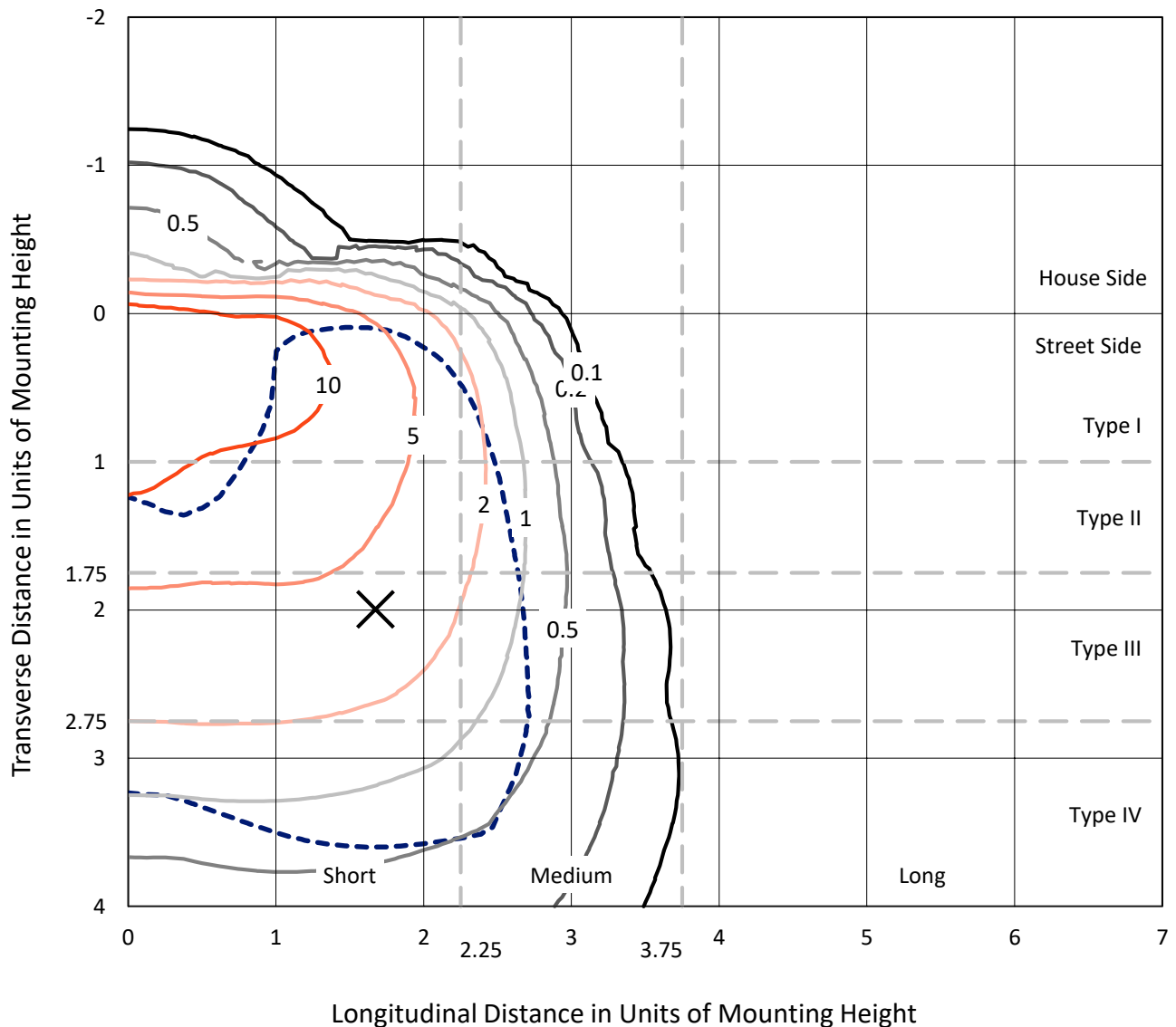


REPORT NUMBER: P191991

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

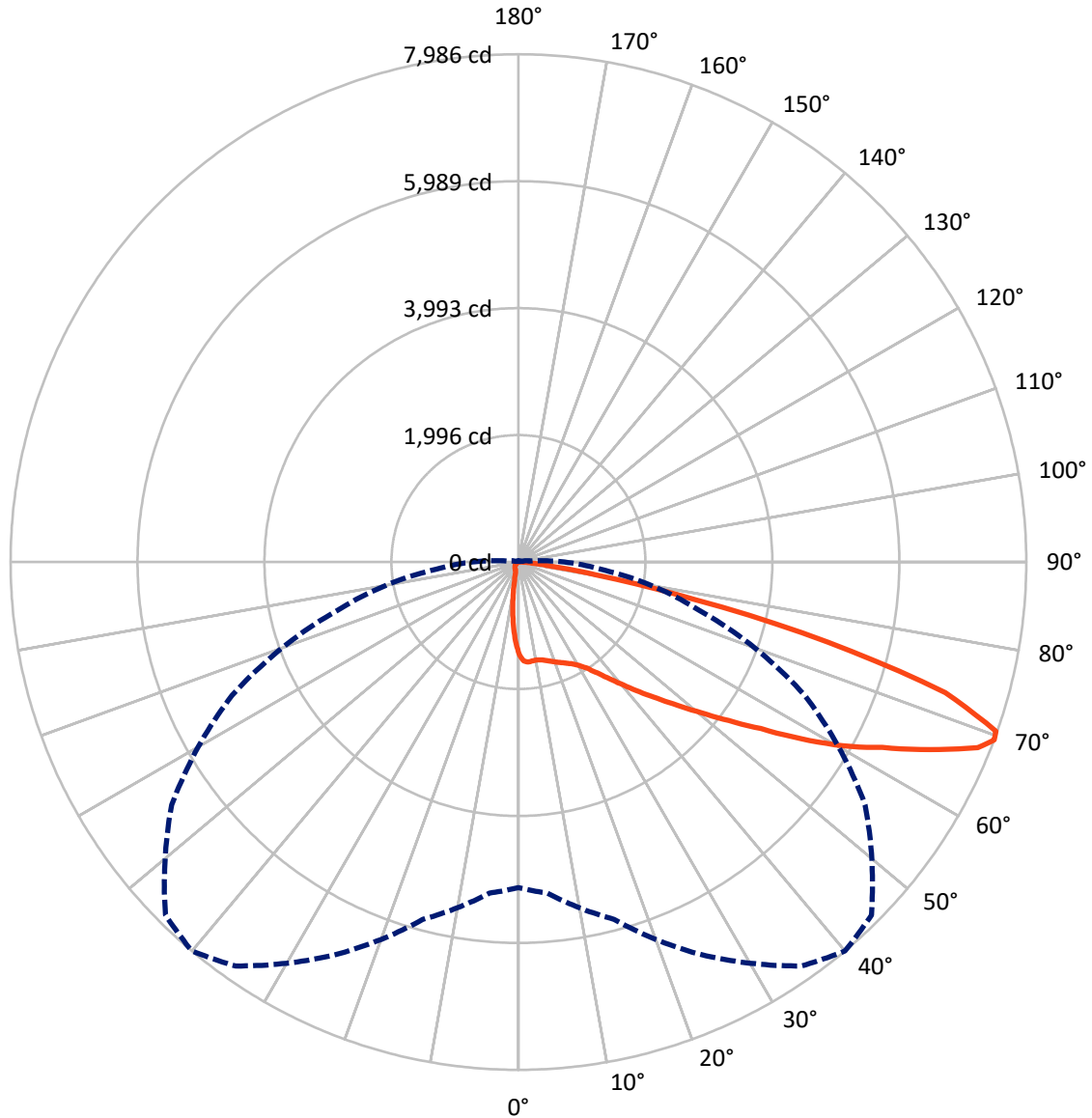
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191991
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-600-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.6	0.0	568.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9149.4	0.0	9149.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	9718.0	0.0	9718.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.2
10°-20°	289.5	3.0
20°-30°	487.6	5.0
30°-40°	798.2	8.2
40°-50°	1382.1	14.2
50°-60°	2177.0	22.4
60°-70°	2843.1	29.3
70°-80°	1464.3	15.1
80°-90°	158.4	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°	9718.0	100.0
0°-180°	9718.0	100.0



REPORT NUMBER: P191991

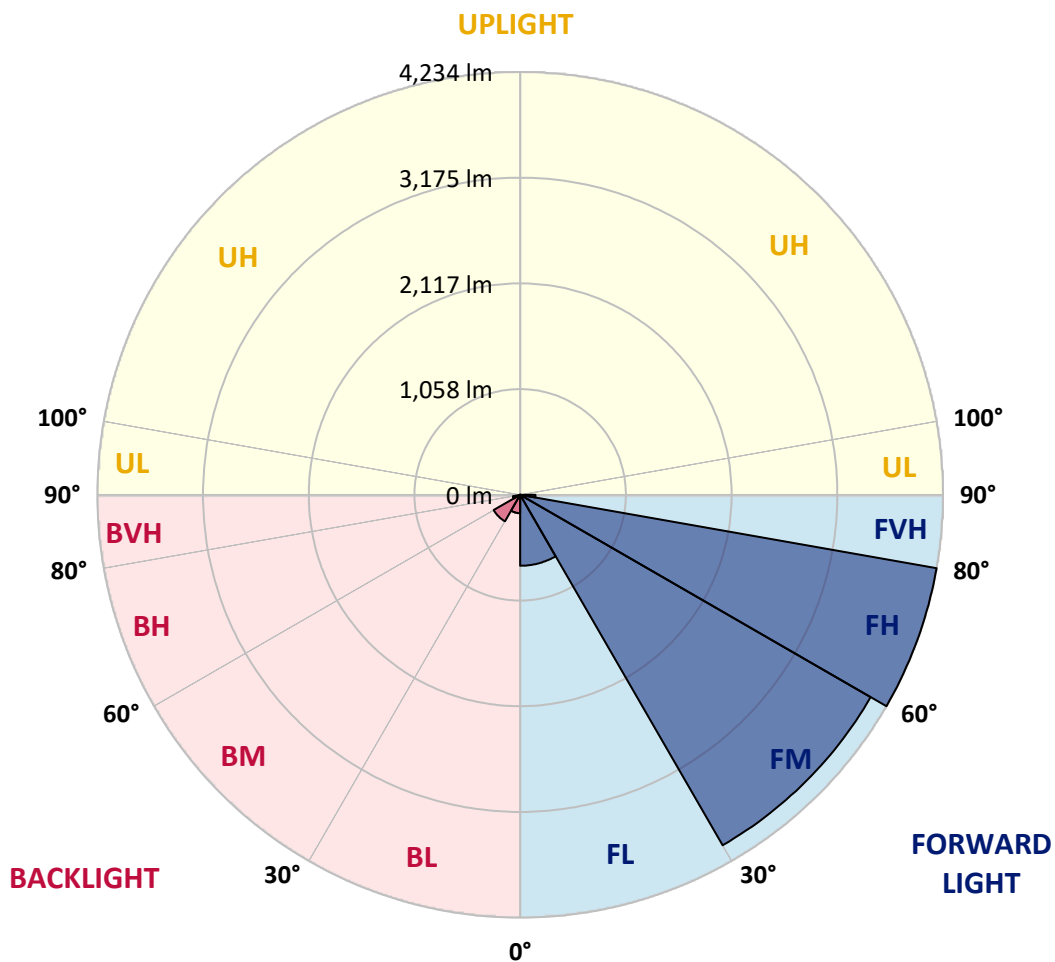
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.7	7.3			
FM	(30°-60°)	4051.8	41.7			
FH	(60°-80°)	4233.6	43.6			G2/5000
FVH	(80°-90°)	153.4	1.6			G2/225
BL	(0°-30°)	184.2	1.9	B1/500		
BM	(30°-60°)	305.6	3.1	B1/1000		
BH	(60°-80°)	73.8	0.8	B0/110		G0/110
BVH	(80°-90°)	5.0	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: P191991

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9
2.5°	1594.2	1585.5	1580.3	1573.4	1564.7	1557.2	1554.3	1532.9	1512.7	1484.9	1453.1
5°	1623.7	1620.8	1611.6	1602.3	1591.9	1580.3	1574.0	1548.5	1519.6	1479.1	1423.6
7.5°	1626.6	1623.1	1611.6	1598.8	1584.4	1570.5	1559.5	1534.1	1507.5	1466.4	1398.7
10°	1622.0	1617.9	1609.3	1595.4	1577.4	1564.1	1553.1	1528.9	1506.3	1469.3	1394.1
12.5°	1616.8	1612.7	1608.7	1601.7	1586.1	1576.9	1567.6	1544.5	1524.2	1493.0	1410.8
15°	1622.0	1619.7	1624.3	1621.4	1612.7	1604.6	1595.4	1574.6	1556.0	1530.0	1441.5
17.5°	1644.0	1644.0	1658.4	1660.2	1652.1	1640.5	1627.2	1606.4	1590.7	1568.8	1477.9
20°	1695.4	1693.7	1712.2	1715.7	1696.0	1678.1	1658.4	1633.0	1620.8	1606.9	1513.8
22.5°	1784.0	1775.9	1786.8	1783.4	1744.6	1716.9	1692.6	1661.3	1655.0	1648.6	1553.7
25°	1899.1	1894.4	1902.0	1867.8	1799.6	1762.0	1733.0	1697.8	1697.8	1704.1	1598.8
27.5°	2066.2	2048.9	2023.4	1963.3	1860.9	1812.9	1781.6	1744.0	1753.9	1777.6	1658.4
30°	2237.5	2218.4	2159.9	2067.4	1935.5	1885.2	1848.7	1809.4	1832.5	1875.9	1738.3
32.5°	2406.4	2385.0	2302.2	2185.4	2042.5	1992.2	1956.9	1913.5	1952.3	2025.2	1855.1
35°	2570.1	2551.0	2455.5	2317.9	2184.8	2143.2	2110.8	2073.2	2122.9	2224.7	2020.0
37.5°	2754.0	2733.2	2616.9	2467.7	2357.8	2327.7	2304.0	2266.4	2353.2	2502.4	2249.6
40°	2980.2	2944.9	2788.1	2639.5	2557.9	2543.5	2527.3	2522.1	2656.8	2863.3	2555.6
42.5°	3239.3	3181.5	2967.5	2820.5	2777.7	2788.1	2784.1	2807.2	3036.9	3312.2	2928.1
45°	3498.5	3423.9	3167.0	3013.7	3019.5	3056.0	3078.5	3171.1	3513.0	3827.1	3329.0
47.5°	3718.3	3644.8	3358.5	3222.6	3292.0	3363.7	3425.0	3600.3	4002.3	4333.8	3640.8
50°	3906.3	3836.9	3561.5	3452.2	3608.4	3724.1	3823.6	4083.3	4528.7	4719.6	3859.4
52.5°	4060.2	4013.9	3772.1	3715.4	3969.9	4139.4	4285.2	4596.4	4994.9	5033.1	4029.5
55°	4210.0	4177.0	3998.3	4028.4	4394.5	4625.3	4809.8	5140.7	5396.4	5294.6	4192.6
57.5°	4382.4	4352.3	4256.3	4425.2	4952.7	5243.1	5444.4	5623.1	5749.8	5561.8	4346.5
60°	4558.2	4540.9	4543.2	4866.0	5593.6	5872.5	5983.5	6029.8	6096.9	5813.5	4355.2
62.5°	4726.0	4758.9	4871.2	5356.5	6207.4	6421.4	6477.5	6523.2	6444.6	5853.4	4023.7
65°	5010.0	5063.8	5331.6	6013.0	6882.4	7111.5	7169.4	7012.6	6499.5	5337.4	3272.9
67.5°	5148.8	5247.2	5725.0	6625.0	7537.3	7791.8	7770.4	7044.4	5832.6	4070.0	2100.4
69°	5119.9	5224.6	5815.8	6812.5	7754.8	7985.6	7849.6	6655.1	4968.9	2948.4	1289.4
70°	5005.4	5111.2	5768.9	6805.5	7782.5	7965.3	7702.7	6174.4	4201.3	2155.9	806.4
72.5°	4179.9	4271.3	5121.6	6151.3	7169.4	7020.7	6444.0	4277.7	2047.1	587.1	181.6
75°	2573.0	2623.9	3674.9	4634.0	5414.9	5033.1	4293.3	2128.1	610.3	166.0	100.7
77.5°	1359.4	1382.5	2011.9	2731.5	3432.5	2840.2	2200.4	830.1	281.1	104.1	72.9
80°	803.5	820.8	1083.4	1248.9	1485.5	1240.8	879.8	509.6	201.3	65.4	64.8
82.5°	459.9	470.9	785.5	694.1	585.4	499.8	437.9	483.0	120.9	44.0	67.1
85°	168.9	171.2	441.9	528.1	348.2	207.1	217.5	400.3	32.4	27.8	52.6
87.5°	78.7	76.9	227.3	323.4	203.6	131.3	169.5	87.9	12.7	17.9	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



REPORT NUMBER: P191991

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9	1451.9
2.5°	1434.6	1413.2	1374.4	1334.5	1294.0	1262.8	1232.1	1207.8	1199.7	1184.7	1185.8
5°	1390.6	1351.3	1270.3	1188.1	1102.5	1032.0	965.4	911.6	885.6	859.0	859.0
7.5°	1352.4	1295.2	1168.5	1034.9	896.6	780.3	675.6	597.0	553.6	518.9	518.3
10°	1338.0	1260.5	1083.4	892.0	699.4	540.9	416.5	336.7	295.6	269.0	267.8
12.5°	1344.3	1248.3	1018.1	760.1	518.3	347.7	241.2	189.7	172.4	164.3	164.3
15°	1362.8	1244.8	952.7	631.1	366.2	217.5	160.2	146.3	145.2	145.2	145.2
17.5°	1385.4	1246.0	885.6	505.6	249.3	155.6	138.3	136.5	137.7	137.7	137.7
20°	1408.5	1246.6	813.3	389.3	175.8	135.4	130.2	129.6	130.7	130.7	131.3
22.5°	1436.9	1249.5	741.0	291.0	145.2	127.8	123.8	123.8	124.4	124.4	123.8
25°	1469.3	1255.2	665.8	215.8	132.5	122.6	119.2	118.6	119.2	118.6	118.0
27.5°	1509.8	1263.3	581.9	168.9	126.7	117.4	114.5	114.5	114.0	113.4	112.8
30°	1560.7	1272.6	487.6	143.5	120.9	112.8	109.9	109.3	108.7	107.6	107.6
32.5°	1638.2	1292.8	394.5	130.2	114.5	106.4	104.1	104.1	103.0	101.8	101.2
35°	1757.3	1332.8	311.2	122.1	107.6	99.5	96.6	96.6	95.4	94.9	94.3
37.5°	1922.2	1393.5	241.8	114.5	100.7	92.0	89.1	88.5	87.3	86.2	85.6
40°	2141.4	1468.7	190.3	107.6	93.7	84.5	82.1	81.0	78.7	76.9	76.9
42.5°	2416.8	1554.3	154.4	100.1	85.6	77.5	75.8	74.0	70.0	68.3	67.7
45°	2704.9	1631.2	130.7	91.4	77.5	70.6	69.4	66.5	61.3	59.6	59.6
47.5°	2912.5	1649.2	115.1	83.3	70.0	63.1	62.5	57.3	52.6	51.5	50.9
50°	3042.1	1613.9	102.4	75.2	63.1	56.1	54.4	48.0	45.1	44.0	43.4
52.5°	3129.4	1550.8	92.0	68.3	56.7	49.7	45.7	41.1	38.8	37.6	37.6
55°	3199.4	1461.8	81.6	61.9	51.5	44.5	38.8	35.3	33.0	31.8	31.8
57.5°	3219.1	1340.9	71.1	56.7	46.3	39.3	33.0	30.7	27.8	27.2	27.2
60°	3076.2	1122.8	63.1	50.3	41.6	34.1	28.9	26.0	23.1	22.6	22.0
62.5°	2699.6	868.8	55.5	44.5	36.4	29.5	24.9	21.4	19.1	19.1	19.1
65°	2059.3	582.5	48.6	38.8	31.8	24.9	21.4	17.4	16.2	16.2	16.8
67.5°	1232.7	317.0	41.6	33.0	27.2	20.8	17.9	15.0	14.5	15.0	15.0
69°	722.5	186.3	37.6	29.5	23.7	18.5	15.6	13.3	14.5	15.0	15.0
70°	446.0	125.5	34.7	26.6	21.4	16.8	14.5	12.7	13.9	14.5	14.5
72.5°	124.4	64.8	27.8	20.8	17.4	13.9	11.6	11.6	13.3	13.9	13.9
75°	81.0	48.0	21.4	15.6	13.3	11.0	9.8	11.0	12.7	13.3	13.3
77.5°	67.1	39.3	17.4	12.7	11.0	10.4	9.3	9.8	11.6	12.1	12.1
80°	61.3	27.8	13.9	11.6	9.8	9.3	8.7	8.1	10.4	11.0	11.0
82.5°	58.4	22.0	12.1	10.4	9.3	8.1	7.5	8.1	9.3	9.8	10.4
85°	36.4	14.5	11.0	9.8	8.1	7.5	7.5	7.5	8.7	9.3	9.3
87.5°	13.3	11.6	9.8	8.1	6.9	6.9	6.9	6.9	7.5	8.7	8.7
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)