

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: P299708

Luminaire Tested: **GLNA-AF-03-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299708
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: GLNA-AF-03-LED-E1-SL2-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8712.3 lumens
Efficiency: N/A
Efficacy: 90.8 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

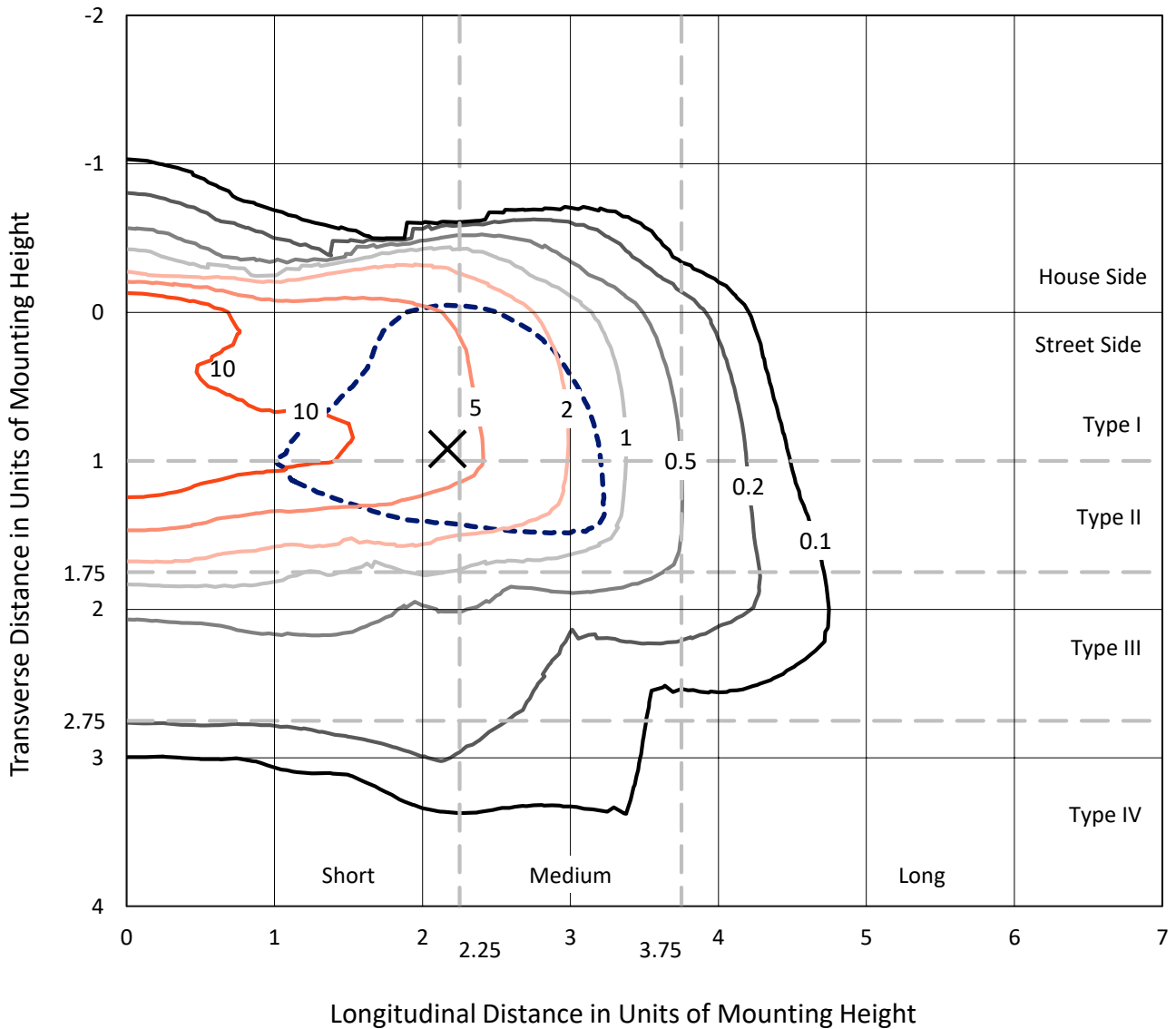


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

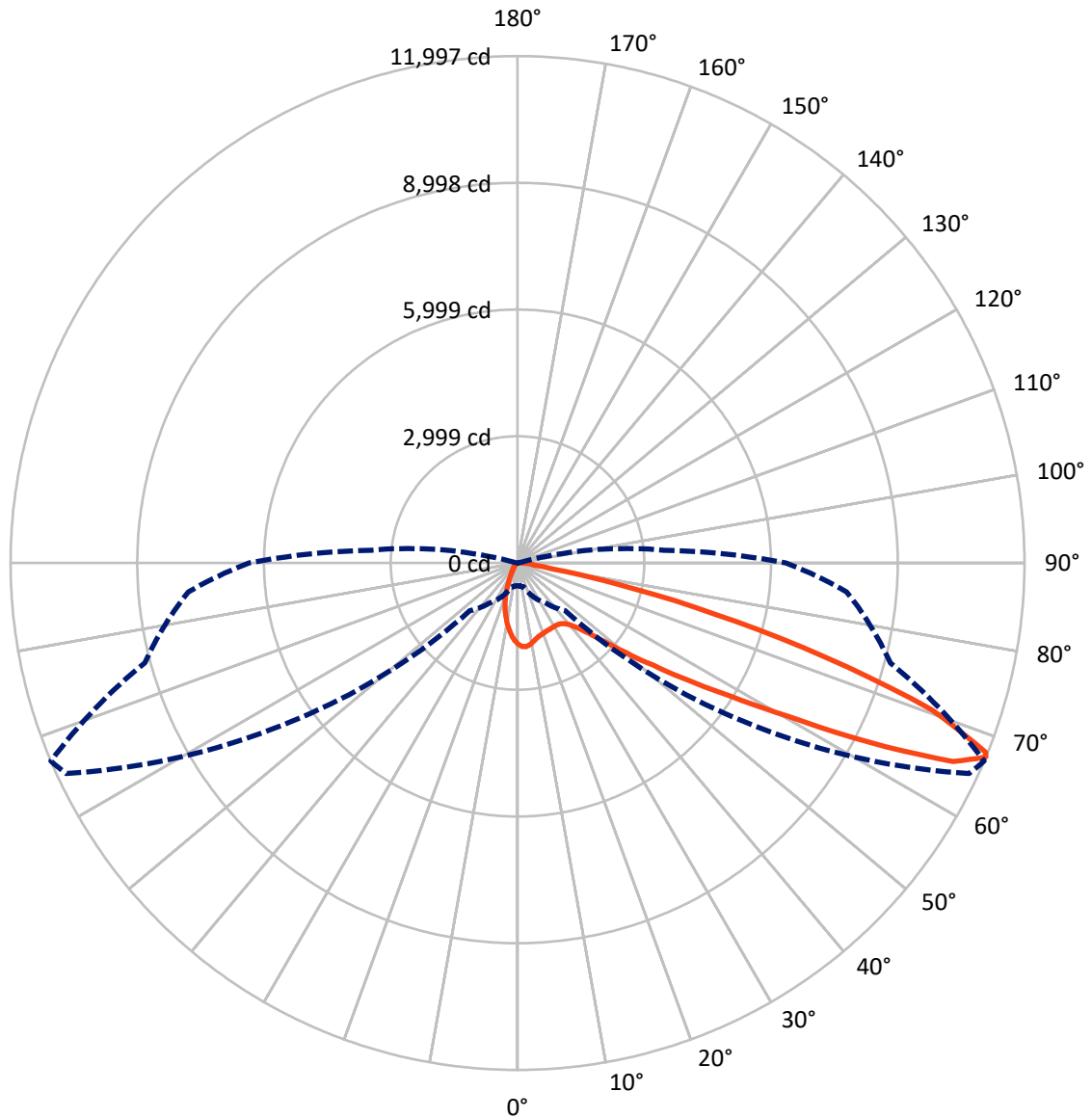


Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - Semi-Cutoff

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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	904.6	0.0	904.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7807.7	0.0	7807.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	8712.3	0.0	8712.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.8
10°-20°	332.8	3.8
20°-30°	483.8	5.6
30°-40°	754.7	8.7
40°-50°	1337.0	15.3
50°-60°	2115.6	24.3
60°-70°	2423.1	27.8
70°-80°	1005.1	11.5
80°-90°	103.8	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°	8712.3	100.0
0°-180°	8712.3	100.0



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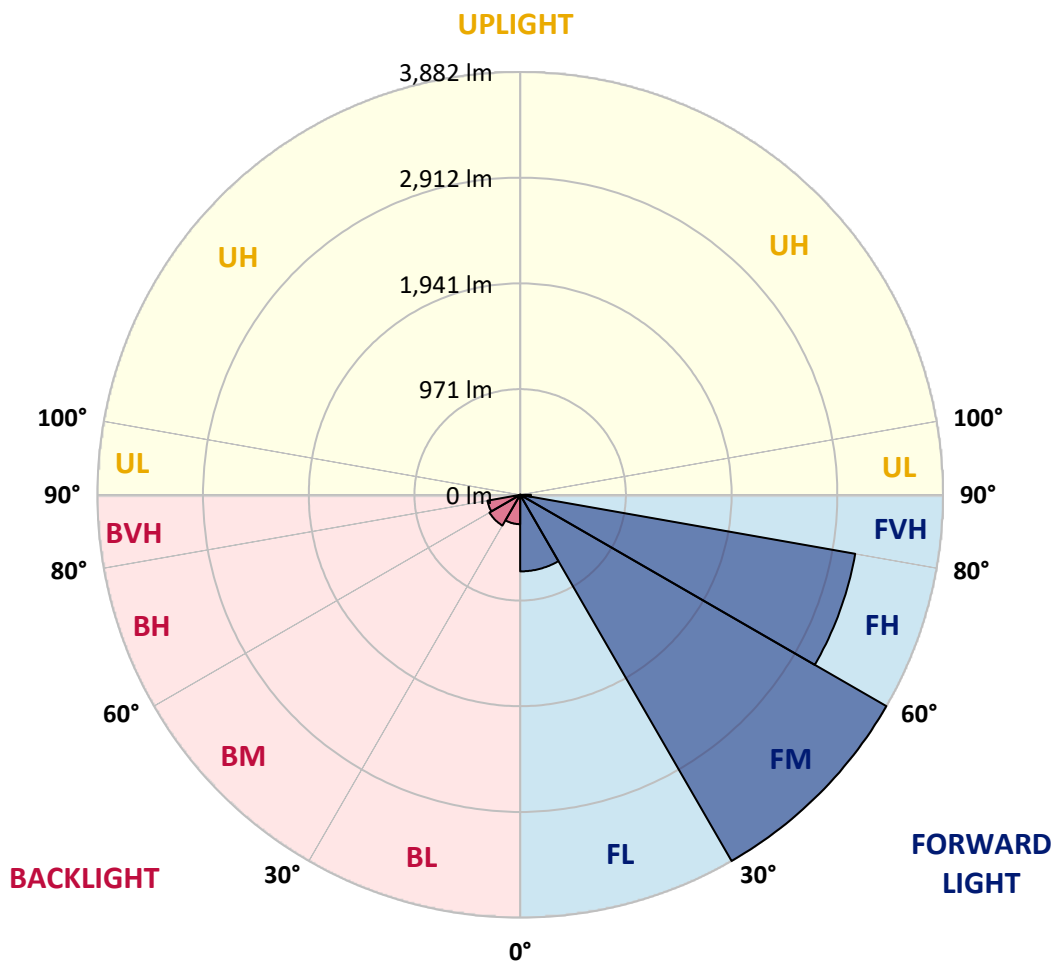
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.9	8.1			
FM (30°-60°)	3882.2	44.6			
FH (60°-80°)	3123.4	35.9			G2/5000
FVH (80°-90°)	99.1	1.1			G1/100
BL (0°-30°)	269.9	3.1	B1/500		
BM (30°-60°)	325.1	3.7	B1/1000		
BH (60°-80°)	304.9	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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1986.4	1990.5	1990.0	1993.0	2000.1	2000.6	1993.5	1979.8	1976.8	1959.0	1928.0
5°	1831.9	1843.6	1850.7	1879.7	1912.2	1951.4	1980.8	1991.5	1990.0	1977.3	1930.5
7.5°	1655.6	1667.3	1675.4	1709.5	1752.7	1819.7	1896.5	1959.5	1965.1	1978.8	1928.5
10°	1538.2	1540.2	1551.4	1584.0	1629.2	1697.8	1789.2	1899.5	1916.3	1966.6	1923.4
12.5°	1441.7	1443.2	1457.9	1493.0	1541.3	1610.4	1706.4	1834.0	1859.9	1951.4	1922.4
15°	1373.1	1378.7	1391.9	1428.5	1479.8	1548.4	1647.0	1785.7	1816.7	1945.8	1931.5
17.5°	1350.2	1356.3	1360.4	1386.8	1433.5	1500.6	1601.7	1754.2	1789.2	1948.8	1949.3
20°	1374.1	1378.7	1369.5	1376.1	1405.1	1465.0	1563.6	1727.3	1768.9	1952.4	1972.2
22.5°	1463.0	1465.0	1440.1	1411.2	1406.1	1439.1	1533.6	1705.9	1750.6	1962.0	1999.1
25°	1615.5	1611.9	1571.2	1508.7	1449.8	1434.6	1515.9	1692.7	1741.5	1972.2	2027.1
27.5°	1799.4	1804.5	1748.6	1657.6	1545.3	1465.0	1513.3	1687.1	1737.4	1979.3	2051.5
30°	2023.0	2030.1	1966.1	1851.8	1690.7	1540.2	1536.7	1686.1	1734.9	1974.7	2053.5
32.5°	2251.2	2259.8	2209.5	2091.6	1884.8	1666.3	1589.5	1697.3	1740.0	1959.0	2041.8
35°	2490.0	2502.2	2468.7	2367.5	2148.0	1848.2	1682.5	1731.3	1763.8	1957.5	2030.1
37.5°	2819.8	2831.0	2768.0	2660.8	2466.6	2092.1	1831.9	1795.3	1820.2	1981.8	2033.2
40°	3312.2	3310.7	3148.1	2983.9	2816.8	2402.1	2041.8	1911.2	1923.9	2055.5	2070.8
42.5°	3848.8	3846.3	3605.9	3356.4	3205.5	2783.7	2317.7	2111.4	2102.8	2191.2	2168.3
45°	4262.5	4262.0	4065.8	3784.8	3673.5	3221.8	2674.5	2389.9	2376.7	2411.8	2348.2
47.5°	4438.8	4441.9	4343.3	4145.6	4192.4	3814.3	3124.2	2793.4	2773.6	2759.3	2662.8
50°	4301.6	4307.7	4315.8	4277.2	4573.0	4610.6	3727.4	3362.0	3352.4	3288.8	3137.9
52.5°	3853.4	3884.4	3980.0	4102.4	4705.1	5374.9	4673.1	4068.4	4016.5	3949.0	3782.8
55°	3098.3	3132.3	3313.7	3611.0	4508.4	5876.9	5998.4	4979.0	4892.6	4690.9	4451.0
57.5°	2050.4	2103.3	2366.5	2744.6	3937.3	5957.7	7320.6	6242.8	5942.0	5389.6	5119.3
60°	1129.7	1180.5	1466.1	1808.6	2843.7	5558.3	8209.9	7888.2	7356.7	6170.7	5930.8
62.5°	695.7	723.1	934.0	1252.6	1705.4	4387.0	8393.9	9956.0	9340.6	7176.3	6911.0
65°	553.9	565.6	668.7	1024.0	1222.6	2609.4	7799.8	11532.3	11327.0	8393.9	7788.6
67°	537.6	542.2	591.0	879.1	1152.5	1599.7	6534.5	11788.9	11997.3	9130.7	7816.1
67.5°	541.2	546.3	592.5	839.0	1150.5	1470.1	6098.5	11687.8	11951.0	9189.2	7694.6
70°	521.9	537.6	678.4	838.5	1094.1	1221.6	3652.2	10126.7	10400.6	8538.2	6528.9
72.5°	185.0	186.0	293.2	678.4	1189.6	1234.8	1834.0	7423.8	7626.5	6531.4	4707.1
75°	109.8	93.5	97.6	193.1	1136.8	1199.3	1058.0	4743.7	4819.4	3742.6	2383.8
77.5°	75.7	66.1	68.1	85.4	433.0	1182.5	840.5	2473.7	2393.0	1312.6	507.7
80°	43.2	38.1	40.7	74.7	157.5	1103.2	792.7	1003.1	855.2	222.6	140.3
82.5°	22.9	19.3	23.4	61.5	109.8	687.5	794.3	484.8	384.2	75.2	95.5
85°	8.1	6.6	11.2	42.2	73.2	210.9	736.3	407.5	320.1	36.6	72.7
87.5°	1.5	1.5	4.6	17.3	29.5	64.5	435.5	241.9	162.1	21.9	49.8
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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1915.3	1893.4	1864.0	1827.9	1785.2	1747.6	1719.6	1690.7	1684.6	1674.4	1672.9
5°	1902.6	1865.0	1791.8	1707.9	1618.5	1537.7	1472.2	1413.7	1387.8	1365.4	1362.9
7.5°	1883.8	1827.4	1702.9	1567.7	1427.9	1300.9	1193.2	1116.9	1046.8	1013.3	1008.2
10°	1861.9	1781.1	1602.8	1415.2	1222.1	1042.8	882.7	748.5	667.2	618.9	612.8
12.5°	1841.6	1735.9	1500.6	1257.2	1000.6	760.7	554.9	426.9	341.5	306.9	302.9
15°	1831.9	1699.3	1405.1	1095.6	768.9	484.3	303.4	234.8	206.8	198.7	198.2
17.5°	1830.9	1668.3	1311.6	928.4	538.7	281.5	197.7	180.4	174.8	172.8	172.8
20°	1830.4	1638.8	1218.1	755.1	342.0	187.5	164.6	160.6	156.5	154.0	154.0
22.5°	1836.0	1612.4	1120.5	578.3	215.5	151.9	144.8	140.8	135.7	132.1	131.6
25°	1841.6	1592.1	1020.9	411.6	156.0	132.1	125.0	119.4	112.3	107.7	107.2
27.5°	1842.6	1566.7	914.2	275.4	130.6	115.4	106.2	97.6	89.4	84.9	84.4
30°	1827.4	1524.0	795.8	186.0	115.4	100.1	87.9	78.8	71.1	67.6	67.6
32.5°	1797.4	1471.1	665.7	140.3	102.6	85.9	72.7	64.0	58.9	57.4	56.9
35°	1770.4	1414.2	532.0	118.9	92.0	72.7	59.5	53.9	50.8	50.3	49.8
37.5°	1754.7	1368.5	406.5	107.7	81.8	61.0	50.3	46.2	44.7	43.7	44.2
40°	1766.9	1330.4	300.3	98.6	71.7	50.8	42.7	40.7	39.1	38.6	38.6
42.5°	1820.2	1323.8	223.1	90.5	62.0	42.2	37.1	35.6	34.6	34.0	34.6
45°	1960.5	1364.4	173.3	82.8	52.3	35.6	31.5	31.0	30.5	30.5	30.5
47.5°	2171.4	1448.3	144.3	74.2	43.7	30.5	27.4	26.9	26.4	26.9	26.9
50°	2528.6	1601.7	129.1	65.6	36.1	25.9	23.4	23.4	23.4	23.4	23.9
52.5°	3071.9	1903.6	118.9	56.9	29.5	21.9	19.8	19.8	20.3	20.3	20.8
55°	3677.1	2304.0	109.8	48.3	24.9	18.3	16.3	16.8	17.3	17.8	17.8
57.5°	4333.6	2747.6	102.1	39.6	21.3	14.7	13.7	14.2	14.7	15.8	15.8
60°	5125.9	3227.9	91.0	31.0	17.8	11.7	10.7	11.7	13.2	14.2	14.7
62.5°	5995.8	3692.3	76.7	24.4	14.7	9.1	8.6	10.7	12.7	13.7	14.2
65°	6590.4	3838.2	58.9	19.8	11.2	6.6	7.1	9.7	12.2	13.7	13.7
67°	6349.5	3479.9	48.3	16.8	9.1	5.1	6.6	9.7	12.2	13.2	13.7
67.5°	6182.3	3339.7	46.2	16.3	8.6	5.1	6.6	9.7	12.2	13.7	13.7
70°	5030.3	2508.8	38.6	12.2	7.1	4.6	5.6	9.1	11.7	13.2	13.2
72.5°	3495.2	1546.9	34.6	8.6	6.1	4.1	5.1	8.6	11.2	12.7	13.2
75°	1661.7	560.0	29.5	6.6	5.6	3.6	4.6	8.6	11.2	12.7	12.7
77.5°	338.9	130.1	23.9	5.6	4.6	3.6	4.1	8.1	10.7	12.2	12.2
80°	111.3	50.3	17.8	5.1	4.6	3.6	4.1	7.6	10.7	11.7	12.2
82.5°	80.3	25.4	11.7	5.1	4.6	3.6	3.6	7.6	10.2	11.7	11.7
85°	61.5	17.8	7.6	5.1	4.6	3.6	3.6	7.1	9.7	11.2	11.2
87.5°	40.7	7.1	6.1	5.1	4.6	3.6	3.6	7.1	9.1	10.7	11.2
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)