

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: P199950

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199950
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: GWC-AF-02-LED-E1-SL2-7030-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7904.1 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

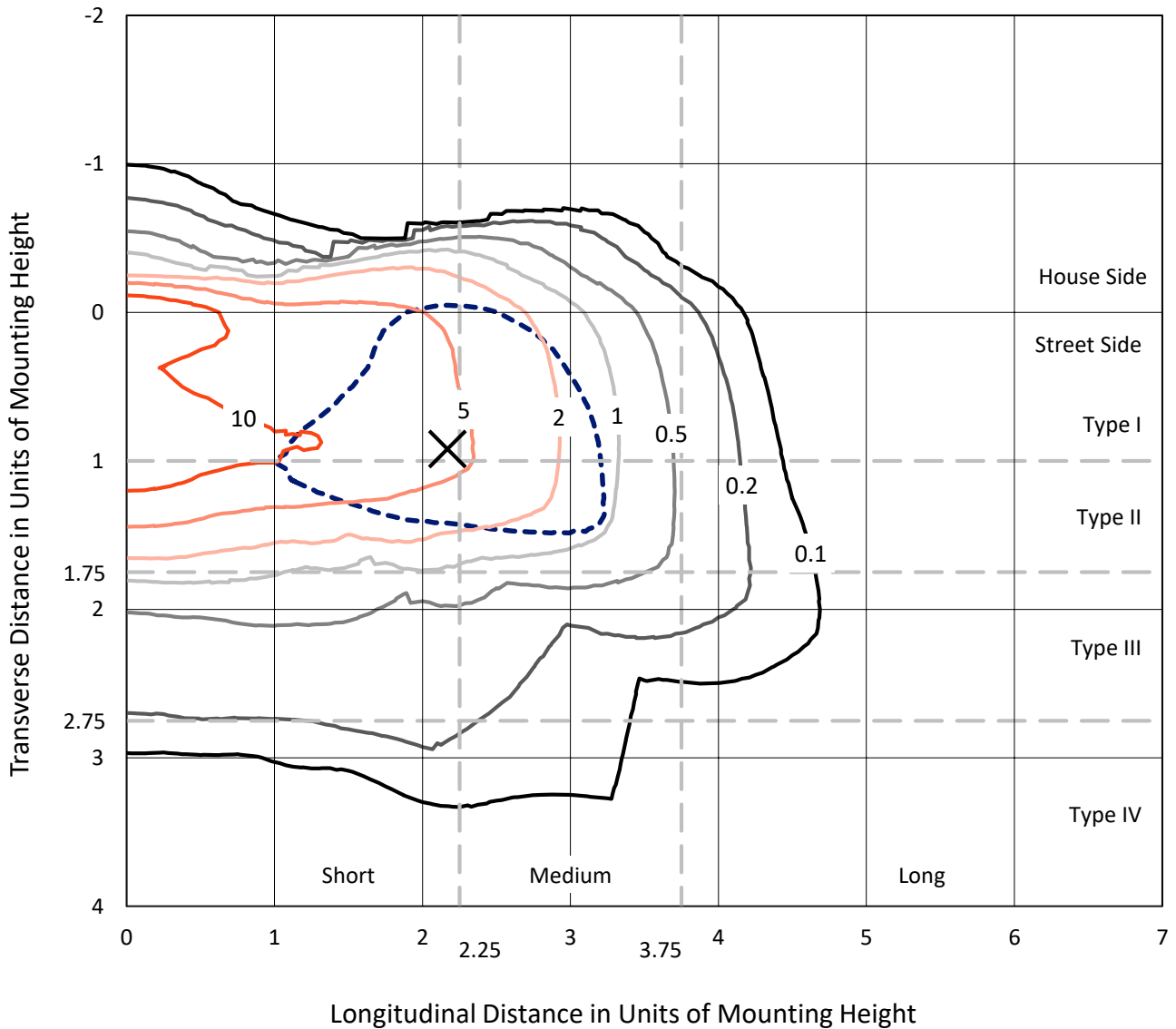
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P199950
 CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

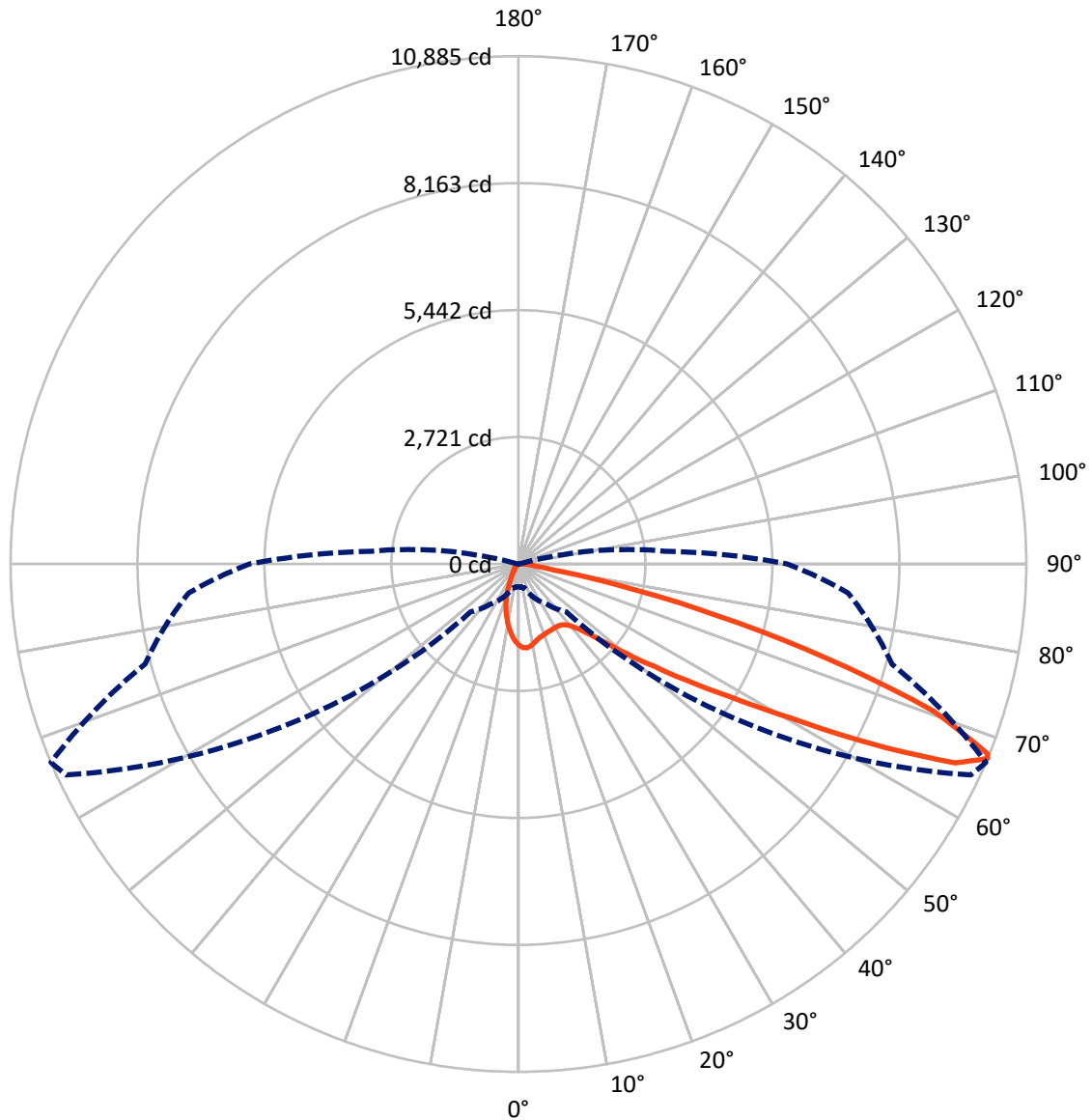


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P199950

CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P199950

CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	820.7	0.0	820.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7083.4	0.0	7083.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	7904.1	0.0	7904.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.8
10°-20°	301.9	3.8
20°-30°	438.9	5.6
30°-40°	684.7	8.7
40°-50°	1212.9	15.3
50°-60°	1919.4	24.3
60°-70°	2198.4	27.8
70°-80°	911.9	11.5
80°-90°	94.2	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°	7904.1	100.0
0°-180°	7904.1	100.0



REPORT NUMBER: P199950

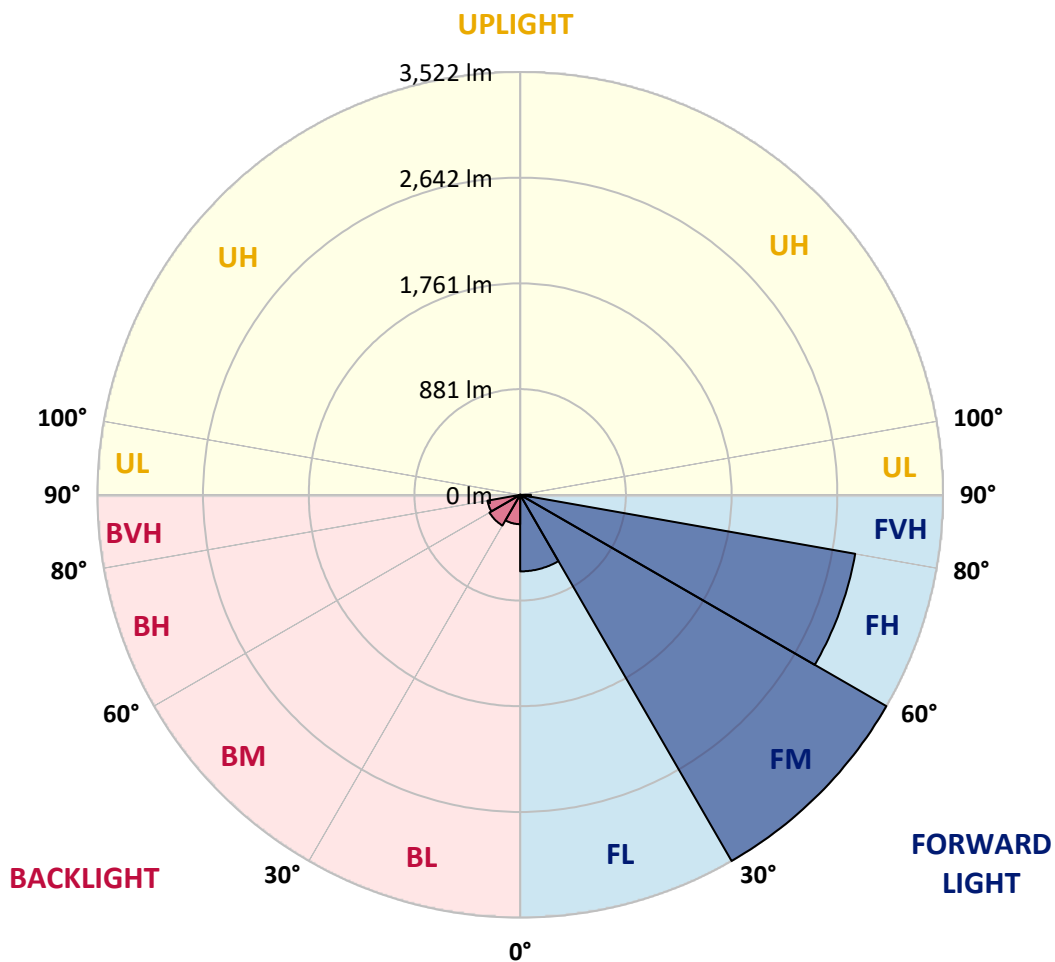
CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.7	8.1			
FM (30°-60°)	3522.1	44.6			
FH (60°-80°)	2833.6	35.9			G2/5000
FVH (80°-90°)	89.9	1.1			G1/100
BL (0°-30°)	244.9	3.1	B1/500		
BM (30°-60°)	294.9	3.7	B1/1000		
BH (60°-80°)	276.6	3.5	B1/500		G1/500
BVH (80°-90°)	4.2	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





REPORT NUMBER: P199950

CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1
2.5°	1802.2	1805.8	1805.4	1808.2	1814.6	1815.1	1808.6	1796.2	1793.4	1777.3	1749.1
5°	1662.0	1672.7	1679.1	1705.3	1734.8	1770.4	1797.1	1806.8	1805.4	1793.8	1751.5
7.5°	1502.0	1512.6	1520.0	1550.9	1590.1	1651.0	1720.6	1777.7	1782.7	1795.2	1749.6
10°	1395.5	1397.4	1407.5	1437.0	1478.0	1540.3	1623.2	1723.4	1738.5	1784.1	1744.9
12.5°	1307.9	1309.3	1322.7	1354.5	1398.3	1461.0	1548.2	1663.8	1687.4	1770.4	1744.1
15°	1245.7	1250.8	1262.8	1296.0	1342.5	1404.8	1494.1	1620.0	1648.2	1765.2	1752.4
17.5°	1225.0	1230.5	1234.2	1258.2	1300.6	1361.4	1453.1	1591.5	1623.2	1768.0	1768.5
20°	1246.6	1250.8	1242.5	1248.5	1274.7	1329.2	1418.6	1567.1	1604.9	1771.3	1789.3
22.5°	1327.3	1329.2	1306.5	1280.3	1275.7	1305.6	1391.4	1547.6	1588.2	1780.1	1813.7
25°	1465.6	1462.4	1425.5	1368.8	1315.3	1301.5	1375.2	1535.7	1580.0	1789.3	1839.0
27.5°	1632.5	1637.1	1586.4	1503.9	1402.0	1329.2	1373.0	1530.7	1576.2	1795.7	1861.2
30°	1835.4	1841.8	1783.7	1680.0	1533.9	1397.4	1394.1	1529.7	1573.9	1791.6	1863.0
32.5°	2042.4	2050.2	2004.5	1897.6	1709.9	1511.8	1442.1	1539.8	1578.6	1777.3	1852.5
35°	2259.0	2270.1	2239.7	2147.9	1948.8	1676.7	1526.5	1570.7	1600.3	1775.9	1841.8
37.5°	2558.2	2568.4	2511.2	2414.0	2237.8	1898.1	1662.0	1628.8	1651.4	1798.0	1844.6
40°	3004.9	3003.6	2856.1	2707.2	2555.4	2179.3	1852.5	1733.9	1745.5	1864.8	1878.7
42.5°	3491.8	3489.6	3271.4	3045.1	2908.2	2525.5	2102.7	1915.6	1907.8	1988.0	1967.2
45°	3867.1	3866.7	3688.7	3433.7	3332.7	2922.9	2426.4	2168.2	2156.2	2188.0	2130.4
47.5°	4027.1	4029.8	3940.5	3761.1	3803.5	3460.5	2834.4	2534.3	2516.3	2503.3	2415.8
50°	3902.6	3908.1	3915.5	3880.5	4148.8	4182.9	3381.6	3050.2	3041.5	2983.8	2846.8
52.5°	3496.0	3524.1	3610.8	3721.9	4268.7	4876.3	4239.6	3690.9	3644.0	3582.7	3431.9
55°	2810.9	2841.8	3006.3	3276.0	4090.3	5331.8	5442.0	4517.1	4438.8	4255.8	4038.2
57.5°	1860.3	1908.2	2147.0	2490.0	3572.0	5405.1	6641.5	5663.7	5390.8	4889.6	4644.4
60°	1024.9	1071.0	1330.0	1640.8	2579.9	5042.8	7448.4	7156.6	6674.3	5598.3	5380.7
62.5°	631.1	656.0	847.3	1136.5	1547.2	3980.1	7615.3	9032.4	8474.1	6510.6	6270.0
65°	502.6	513.1	606.7	929.0	1109.2	2367.4	7076.3	10462.6	10276.3	7615.3	7066.2
67°	487.7	491.9	536.2	797.6	1045.6	1451.3	5928.4	10695.4	10884.5	8283.8	7091.0
67.5°	491.0	495.6	537.6	761.2	1043.8	1333.8	5532.8	10603.7	10842.5	8336.7	6980.9
70°	473.5	487.7	615.4	760.7	992.6	1108.3	3313.4	9187.4	9435.8	7746.2	5923.3
72.5°	167.8	168.7	266.0	615.4	1079.2	1120.3	1663.8	6735.2	6919.1	5925.6	4270.5
75°	99.6	84.9	88.5	175.2	1031.3	1088.0	959.9	4303.7	4372.3	3395.5	2162.6
77.5°	68.7	59.9	61.8	77.4	392.8	1072.8	762.6	2244.3	2171.0	1190.8	460.6
80°	39.2	34.6	36.8	67.8	143.0	1000.9	719.2	910.1	775.9	201.9	127.3
82.5°	20.7	17.5	21.2	55.7	99.6	623.8	720.6	439.8	348.5	68.2	86.7
85°	7.4	6.0	10.1	38.2	66.4	191.3	668.1	369.7	290.4	33.2	65.9
87.5°	1.4	1.4	4.2	15.7	26.7	58.5	395.2	219.4	147.0	19.9	45.2
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: P199950

CATALOG NUMBER: GWC-AF-02-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1	1743.1
2.5°	1737.6	1717.8	1691.0	1658.4	1619.6	1585.4	1560.1	1533.9	1528.3	1519.1	1517.7
5°	1726.0	1692.0	1625.6	1549.6	1468.4	1395.1	1335.6	1282.6	1259.0	1238.7	1236.5
7.5°	1709.1	1657.8	1544.9	1422.3	1295.4	1180.2	1082.5	1013.4	949.7	919.3	914.7
10°	1689.2	1615.9	1454.1	1283.9	1108.8	946.0	800.8	679.1	605.3	561.5	556.0
12.5°	1670.7	1574.9	1361.4	1140.6	907.8	690.2	503.4	387.3	309.8	278.5	274.7
15°	1662.0	1541.7	1274.7	993.9	697.5	439.4	275.3	213.0	187.6	180.2	179.8
17.5°	1661.1	1513.6	1190.0	842.3	488.7	255.4	179.4	163.7	158.6	156.7	156.7
20°	1660.6	1486.8	1105.1	685.0	310.3	170.1	149.4	145.6	142.0	139.7	139.7
22.5°	1665.7	1462.9	1016.6	524.7	195.5	137.8	131.4	127.7	123.1	119.9	119.4
25°	1670.7	1444.4	926.2	373.5	141.6	119.9	113.4	108.4	101.9	97.7	97.3
27.5°	1671.7	1421.3	829.4	249.8	118.5	104.6	96.3	88.5	81.1	77.0	76.6
30°	1657.8	1382.7	722.0	168.7	104.6	90.9	79.8	71.4	64.6	61.3	61.3
32.5°	1630.7	1334.6	604.0	127.3	93.1	77.9	65.9	58.1	53.5	52.1	51.7
35°	1606.2	1283.1	482.7	107.8	83.5	65.9	53.9	48.9	46.1	45.6	45.2
37.5°	1591.9	1241.5	368.8	97.7	74.2	55.3	45.6	42.0	40.6	39.6	40.1
40°	1602.9	1206.9	272.5	89.5	65.0	46.1	38.8	36.8	35.6	35.0	35.0
42.5°	1651.4	1201.0	202.4	82.1	56.3	38.2	33.6	32.2	31.4	30.9	31.4
45°	1778.7	1237.9	157.2	75.2	47.5	32.2	28.6	28.1	27.7	27.7	27.7
47.5°	1970.0	1313.9	130.9	67.3	39.6	27.7	24.9	24.4	24.0	24.4	24.4
50°	2294.1	1453.1	117.1	59.5	32.8	23.5	21.2	21.2	21.2	21.2	21.7
52.5°	2786.9	1727.0	107.8	51.7	26.7	19.9	17.9	17.9	18.5	18.5	18.9
55°	3336.0	2090.3	99.6	43.8	22.6	16.6	14.7	15.3	15.7	16.1	16.1
57.5°	3931.6	2492.8	92.7	36.0	19.3	13.3	12.5	12.9	13.3	14.3	14.3
60°	4650.4	2928.5	82.5	28.1	16.1	10.6	9.7	10.6	12.0	12.9	13.3
62.5°	5439.6	3349.8	69.6	22.1	13.3	8.3	7.8	9.7	11.5	12.5	12.9
65°	5979.0	3482.1	53.5	17.9	10.1	6.0	6.4	8.8	11.1	12.5	12.5
67°	5760.6	3157.1	43.8	15.3	8.3	4.6	6.0	8.8	11.1	12.0	12.5
67.5°	5608.9	3029.9	42.0	14.7	7.8	4.6	6.0	8.8	11.1	12.5	12.5
70°	4563.7	2276.1	35.0	11.1	6.4	4.2	5.0	8.3	10.6	12.0	12.0
72.5°	3171.0	1403.4	31.4	7.8	5.6	3.7	4.6	7.8	10.1	11.5	12.0
75°	1507.6	508.0	26.7	6.0	5.0	3.2	4.2	7.8	10.1	11.5	11.5
77.5°	307.5	118.0	21.7	5.0	4.2	3.2	3.7	7.4	9.7	11.1	11.1
80°	101.0	45.6	16.1	4.6	4.2	3.2	3.7	6.9	9.7	10.6	11.1
82.5°	72.8	23.1	10.6	4.6	4.2	3.2	3.2	6.9	9.2	10.6	10.6
85°	55.7	16.1	6.9	4.6	4.2	3.2	3.2	6.4	8.8	10.1	10.1
87.5°	36.8	6.4	5.6	4.6	4.2	3.2	3.2	6.4	8.3	9.7	10.1
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)