

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: P270122

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7324.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-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

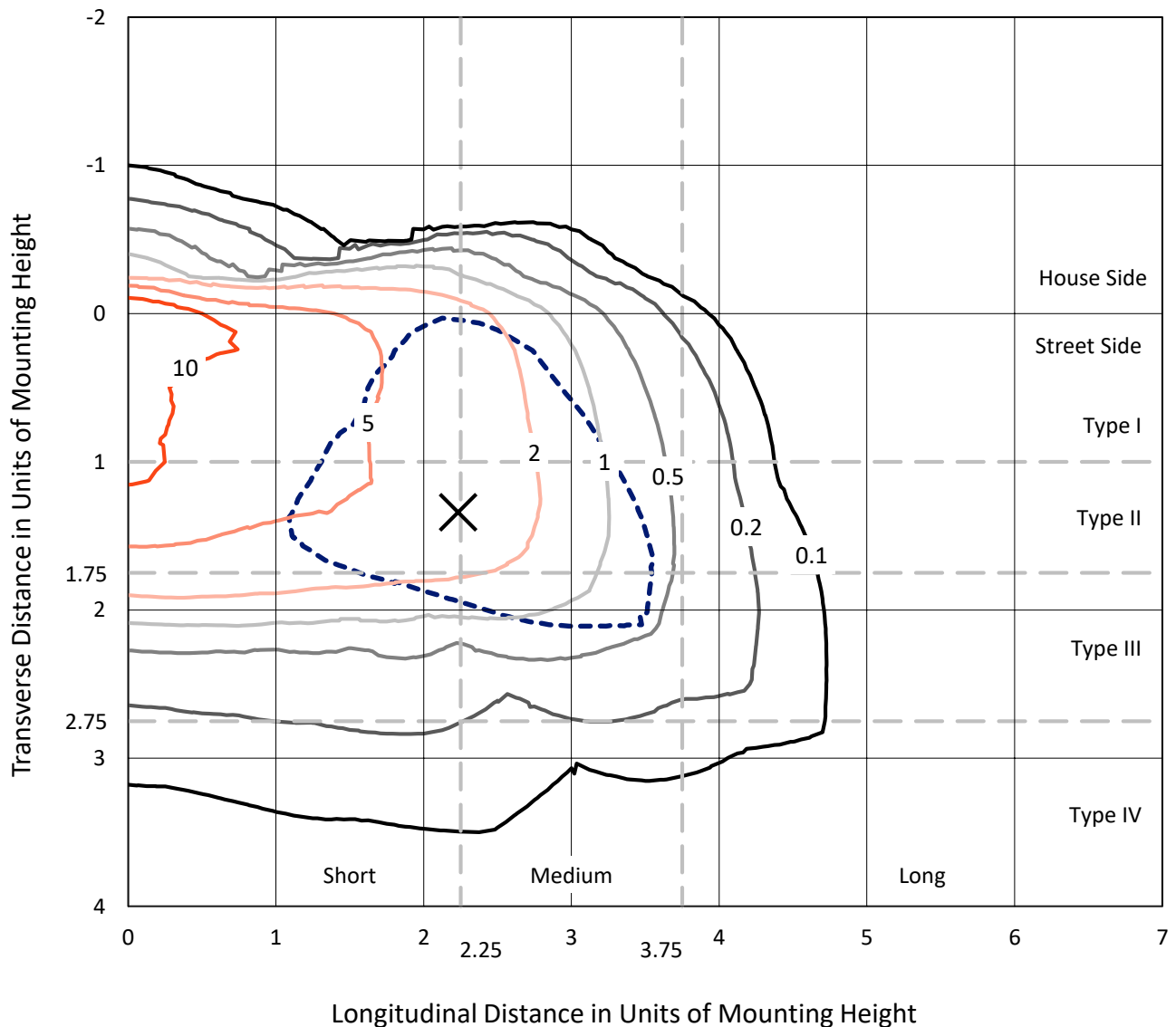


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

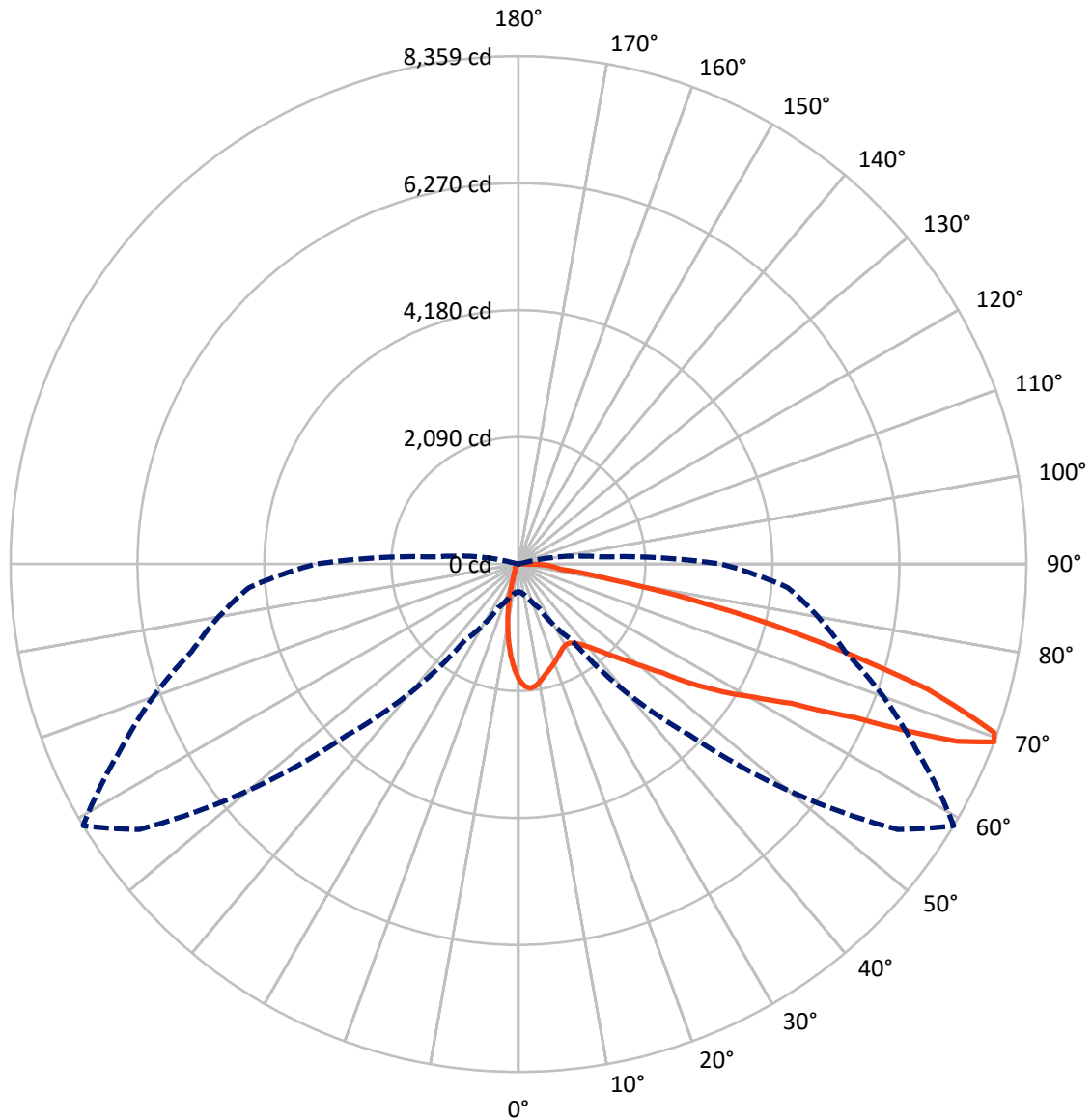


Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	596.4	0.0	596.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6727.7	0.0	6727.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	7324.1	0.0	7324.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	2.1
10°-20°	319.7	4.4
20°-30°	430.2	5.9
30°-40°	624.7	8.5
40°-50°	1040.2	14.2
50°-60°	1622.6	22.2
60°-70°	2007.9	27.4
70°-80°	1017.6	13.9
80°-90°	106.5	1.5
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°	7324.1	100.0
0°-180°	7324.1	100.0



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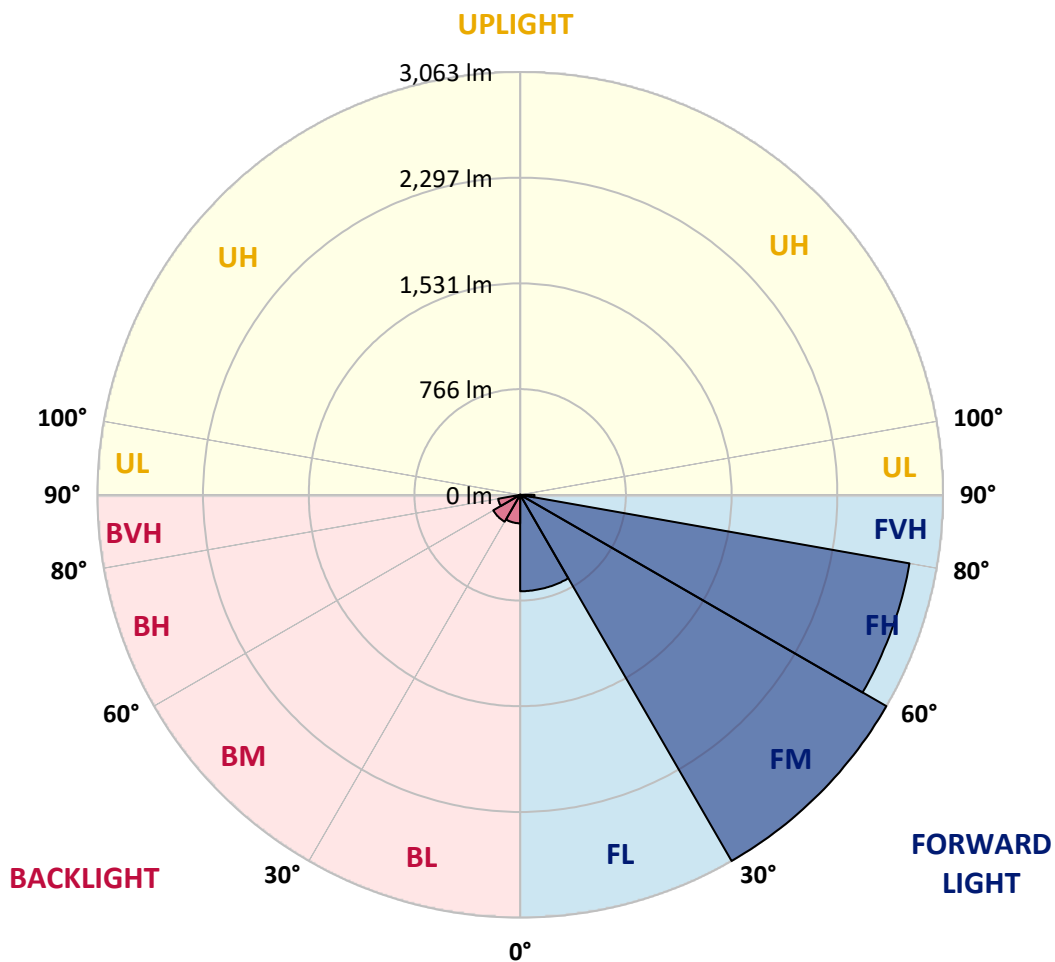
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.3	9.5			
FM (30°-60°)	3062.7	41.8			
FH (60°-80°)	2863.5	39.1			G2/5000
FVH (80°-90°)	103.2	1.4			G2/225
BL (0°-30°)	206.4	2.8	B1/500		
BM (30°-60°)	224.7	3.1	B1/1000		
BH (60°-80°)	162.0	2.2	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4
2.5°	2089.5	2088.6	2079.6	2075.4	2067.9	2052.1	2027.7	2014.9	1994.1	1958.1	1909.7
5°	2070.3	2080.3	2085.7	2086.1	2091.5	2085.7	2063.7	2053.0	2024.4	1966.5	1879.4
7.5°	1941.1	1944.9	1960.2	1973.5	1999.2	2023.6	2031.5	2026.8	2009.9	1947.8	1832.3
10°	1802.8	1806.6	1824.8	1842.2	1877.0	1914.6	1954.4	1962.7	1969.7	1921.3	1786.7
12.5°	1683.6	1687.3	1706.0	1728.7	1769.3	1815.7	1877.4	1891.1	1922.1	1896.1	1750.3
15°	1580.8	1582.5	1600.7	1628.9	1677.4	1737.1	1806.9	1828.9	1876.6	1878.2	1718.4
17.5°	1493.5	1497.7	1508.8	1535.7	1588.7	1662.4	1744.1	1775.5	1831.4	1863.4	1687.3
20°	1440.1	1444.2	1443.8	1458.7	1506.3	1585.0	1681.1	1718.8	1786.7	1848.0	1659.5
22.5°	1429.7	1429.7	1418.9	1416.9	1444.9	1510.9	1615.6	1661.6	1746.5	1841.3	1640.0
25°	1466.6	1465.0	1438.0	1416.0	1417.3	1456.6	1552.3	1607.0	1712.5	1845.9	1629.7
27.5°	1544.5	1542.3	1508.3	1466.6	1433.0	1432.6	1504.2	1563.1	1685.6	1867.5	1633.8
30°	1652.1	1651.3	1614.3	1561.8	1500.9	1444.9	1487.7	1541.0	1668.2	1906.4	1643.4
32.5°	1769.8	1768.5	1740.6	1685.2	1608.2	1500.9	1505.0	1549.8	1673.3	1958.1	1666.5
35°	1894.3	1892.3	1880.3	1831.8	1746.9	1604.0	1562.2	1597.0	1704.7	2035.6	1712.1
37.5°	2029.4	2031.5	2040.1	1993.8	1904.7	1748.6	1657.9	1681.5	1768.0	2140.8	1786.3
40°	2228.6	2228.2	2231.1	2170.2	2084.4	1925.4	1791.6	1799.1	1874.1	2280.3	1898.9
42.5°	2590.2	2564.8	2488.2	2364.1	2277.9	2127.5	1960.2	1952.4	2003.7	2453.0	2056.7
45°	3075.9	3022.1	2823.4	2585.2	2475.0	2355.3	2167.7	2142.5	2175.2	2660.6	2251.3
47.5°	3493.8	3437.9	3156.6	2815.4	2684.2	2571.5	2410.9	2365.2	2376.0	2892.9	2498.2
50°	3635.9	3608.5	3363.0	3015.9	2886.7	2843.6	2692.8	2637.4	2622.1	3161.7	2784.4
52.5°	3586.7	3584.5	3420.9	3146.0	3072.3	3125.2	3047.8	2983.6	2927.2	3445.0	3075.5
55°	3507.5	3517.9	3444.6	3259.9	3257.3	3382.5	3533.2	3479.7	3316.5	3752.7	3326.5
57.5°	3289.2	3333.5	3431.3	3475.2	3577.1	3705.1	3937.5	3968.9	3775.9	3988.4	3534.8
60°	2668.9	2766.2	3085.9	3506.3	3989.2	4308.0	4425.2	4452.2	4152.8	4184.2	3816.1
62.5°	1894.3	1993.8	2399.2	3110.4	3995.4	5100.4	5152.1	5046.5	4567.8	4474.5	4301.0
65°	1005.6	1082.2	1413.5	2245.2	3464.0	5284.3	6423.2	6108.5	5300.0	5045.7	4927.7
67.5°	514.4	537.6	669.3	1098.8	2381.4	4693.6	7562.6	7784.1	6561.9	5612.3	4897.5
69°	455.1	468.8	556.2	794.4	1525.0	3975.5	7618.1	8359.4	7222.6	5565.0	4450.6
70°	440.6	452.7	532.2	719.0	1192.0	3334.1	7405.5	8308.9	7391.5	5385.2	4116.8
72.5°	374.0	384.3	473.9	635.4	968.7	1655.0	6015.6	7040.6	6632.7	4486.1	2979.9
75°	250.2	284.1	454.7	595.6	901.2	940.2	3966.0	5087.9	4726.4	3025.9	1552.3
77.5°	60.0	64.7	128.5	473.9	824.2	827.4	2039.8	3162.9	2579.8	1078.5	367.0
80°	32.3	31.1	36.0	94.0	767.4	776.5	918.2	1535.3	921.0	178.9	120.9
82.5°	22.7	21.6	23.2	39.3	241.5	707.4	664.3	695.0	381.9	68.8	54.3
85°	8.3	7.9	12.8	35.6	75.8	406.7	682.5	573.2	309.3	31.4	39.8
87.5°	2.9	2.5	5.0	19.5	23.2	173.1	421.1	433.3	121.7	19.0	18.6
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°	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4	1906.4
2.5°	1889.4	1863.7	1816.6	1768.0	1723.3	1669.5	1642.6	1616.1	1604.8	1600.7	1581.3
5°	1834.8	1791.2	1691.0	1590.4	1497.7	1399.0	1334.0	1281.8	1251.2	1236.2	1212.6
7.5°	1764.7	1693.5	1541.5	1386.2	1241.6	1099.2	993.6	912.3	856.5	829.6	805.2
10°	1696.8	1601.9	1385.8	1174.1	977.9	789.0	643.2	537.6	470.1	439.0	419.1
12.5°	1635.9	1512.8	1235.3	967.5	721.1	499.9	351.6	267.5	225.7	211.2	204.2
15°	1581.6	1431.0	1093.3	771.2	488.3	285.8	192.2	163.7	157.0	157.0	156.1
17.5°	1530.4	1350.6	956.2	586.9	306.4	174.7	146.2	142.5	142.5	144.2	144.2
20°	1481.0	1274.0	823.7	421.1	193.0	138.8	132.1	131.3	132.1	134.2	134.2
22.5°	1438.8	1204.4	699.9	289.1	143.3	125.0	121.7	120.6	120.9	122.2	123.0
25°	1407.3	1145.5	583.2	195.8	123.4	113.8	110.2	108.1	106.4	106.4	107.3
27.5°	1387.4	1095.8	470.1	142.5	110.9	103.5	97.7	94.5	90.7	88.7	89.5
30°	1373.0	1048.7	364.0	116.3	99.4	92.0	84.5	79.1	73.8	71.2	72.0
32.5°	1367.6	1010.6	272.1	102.8	89.0	80.8	71.7	64.7	58.8	56.8	57.1
35°	1382.0	980.3	199.2	92.8	80.8	70.4	60.0	52.2	47.7	46.4	46.8
37.5°	1420.1	964.2	149.0	84.5	73.3	61.7	50.0	42.7	39.8	39.8	40.2
40°	1492.3	963.8	119.7	78.7	66.7	53.4	41.4	36.0	34.3	35.2	35.6
42.5°	1597.4	985.7	104.4	73.3	60.9	45.5	34.3	30.7	30.2	31.1	31.4
45°	1741.2	1025.9	96.1	68.8	54.7	38.1	28.9	26.5	26.5	27.8	28.2
47.5°	1917.2	1084.7	89.0	64.1	48.4	32.0	24.9	23.2	23.6	24.9	25.2
50°	2129.3	1158.8	82.0	59.2	43.9	26.5	21.6	20.3	20.8	22.4	22.7
52.5°	2370.6	1258.6	76.3	54.7	38.1	22.0	18.2	17.3	18.2	19.9	20.3
55°	2577.7	1348.1	69.2	50.9	30.7	18.2	14.9	14.9	15.7	17.9	18.2
57.5°	2776.9	1441.7	62.9	43.9	24.0	14.5	12.5	12.8	14.1	16.1	16.6
60°	3069.3	1600.3	55.5	36.8	18.2	11.6	10.3	10.8	12.5	14.5	14.9
62.5°	3565.9	1841.8	48.1	30.7	14.1	9.1	8.3	9.1	11.2	13.7	14.1
65°	4014.1	1939.9	39.3	25.7	10.8	7.0	7.0	8.3	10.8	13.2	13.7
67.5°	3764.3	1633.0	30.7	20.3	8.3	5.4	5.7	7.9	10.3	13.2	13.7
69°	3329.0	1335.2	26.1	16.1	7.0	5.0	5.4	7.9	10.3	12.8	13.2
70°	2989.7	1127.3	23.2	13.7	6.2	5.0	5.4	7.5	10.3	12.8	13.2
72.5°	2002.4	608.8	18.6	10.0	5.7	4.5	4.5	7.5	10.0	12.5	12.8
75°	860.7	168.2	14.9	7.0	5.0	4.1	4.1	7.0	9.5	11.9	12.8
77.5°	157.4	42.7	11.9	6.2	5.0	4.1	3.8	6.6	9.1	11.6	11.9
80°	62.5	21.1	9.5	5.4	4.5	3.8	3.3	6.2	8.7	11.2	11.6
82.5°	37.7	11.9	7.9	5.0	4.5	3.3	2.9	5.4	8.3	10.8	11.2
85°	30.7	8.3	6.2	5.0	4.1	3.3	2.5	5.0	7.5	10.3	10.8
87.5°	14.9	5.7	5.7	4.5	4.1	3.3	2.5	4.5	7.0	10.0	10.3
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)