

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: P200118

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10057.6 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

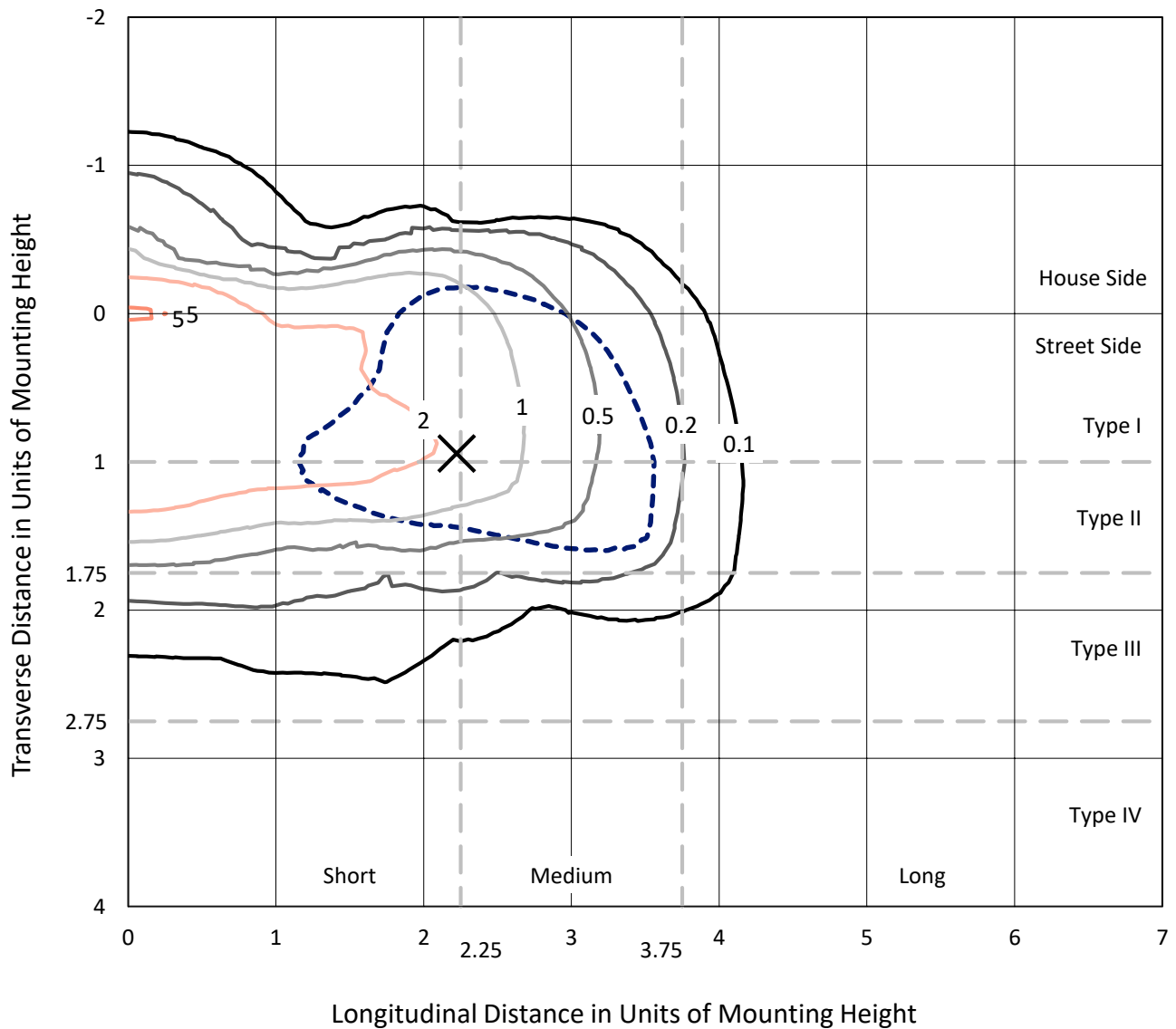
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

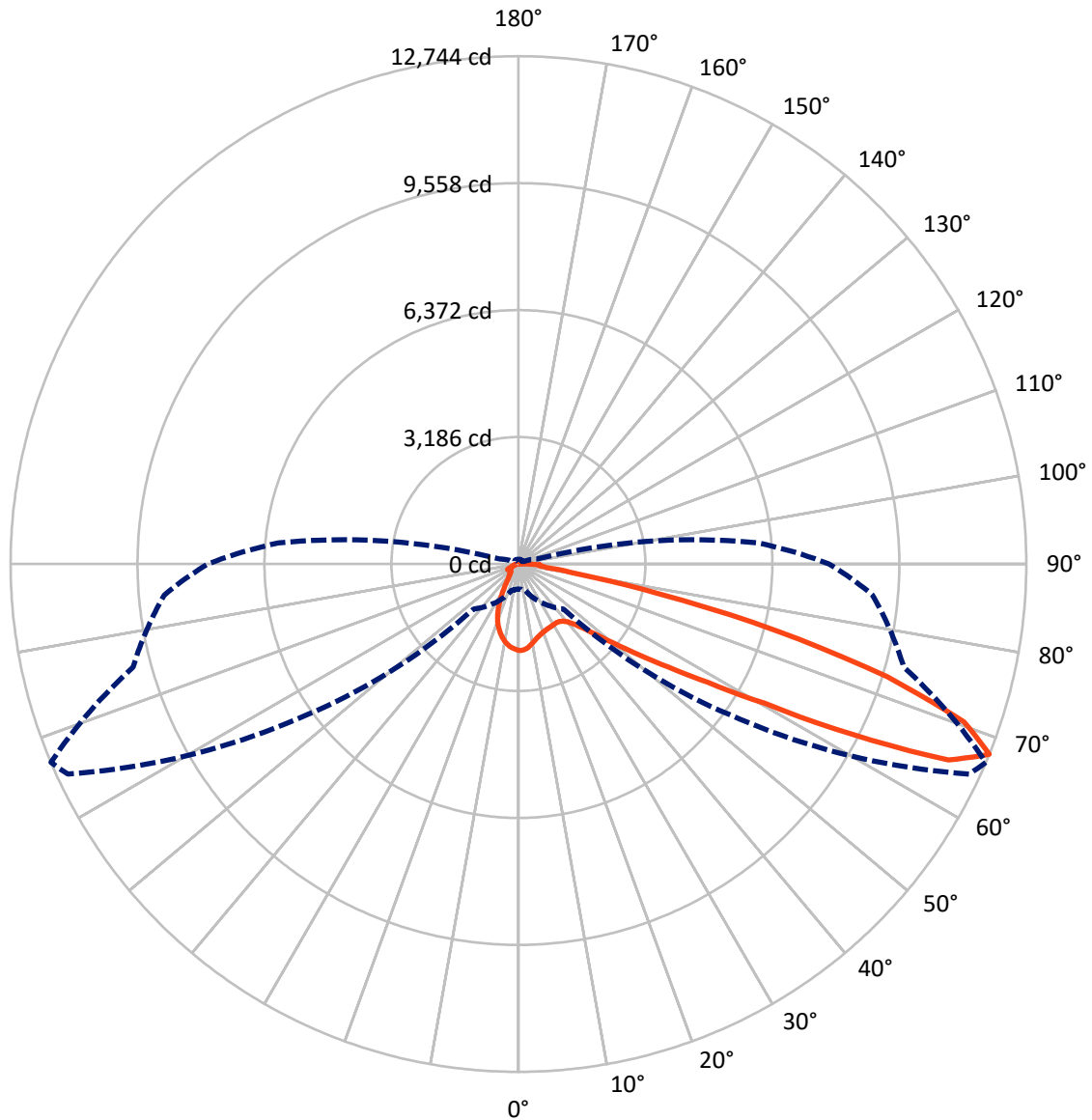
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1666.4	0.0	1666.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	8391.2	0.0	8391.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	10057.6	0.0	10057.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	1.8
10°-20°	428.3	4.3
20°-30°	580.5	5.8
30°-40°	825.2	8.2
40°-50°	1380.7	13.7
50°-60°	2184.2	21.7
60°-70°	2782.5	27.7
70°-80°	1457.4	14.5
80°-90°	233.7	2.3
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°	10057.6	100.0
0°-180°	10057.6	100.0

**Coefficient of Utilization**



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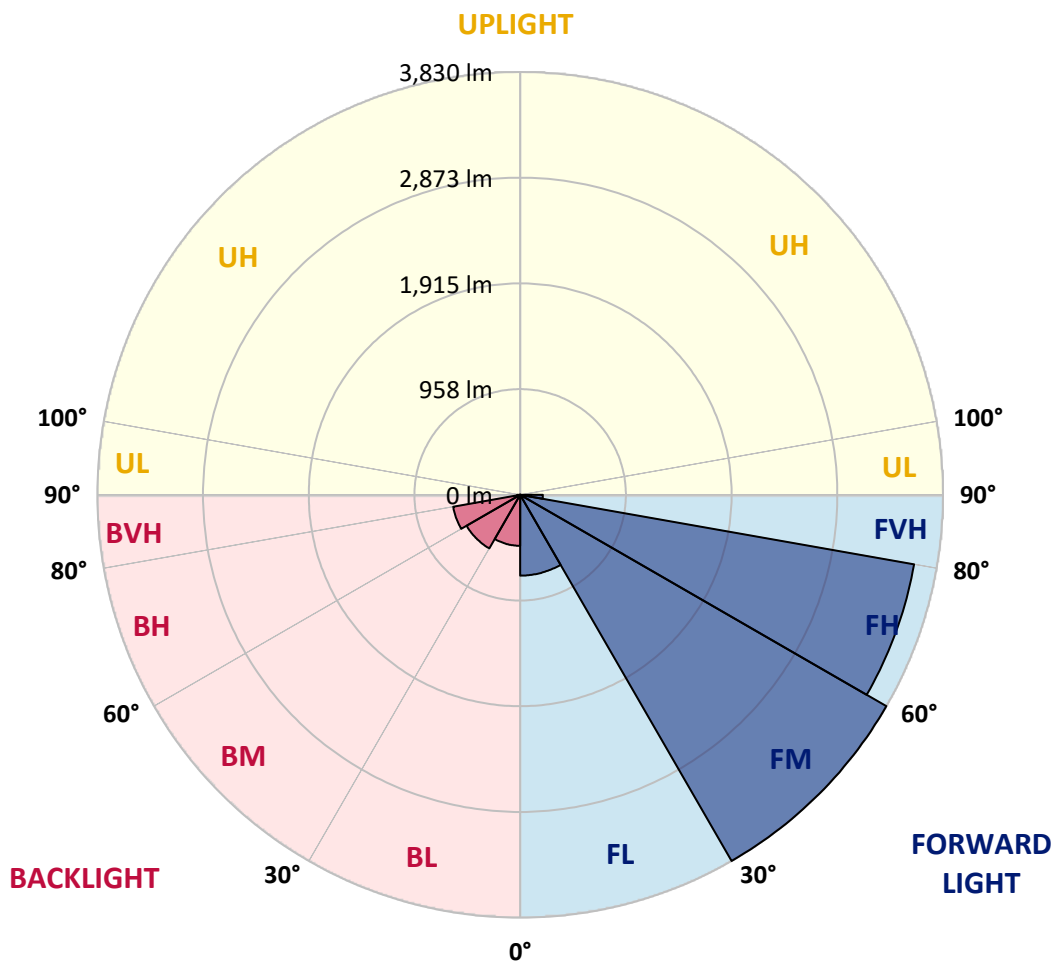
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.0	7.3			
FM	(30°-60°)	3830.2	38.1			
FH	(60°-80°)	3623.6	36.0			G2/5000
FVH	(80°-90°)	205.5	2.0			G2/225
BL	(0°-30°)	461.9	4.6	B1/500		
BM	(30°-60°)	560.0	5.6	B1/1000		
BH	(60°-80°)	616.4	6.1	B2/1000		G2/1000
BVH	(80°-90°)	28.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2.5°	2080.2	2083.6	2094.5	2101.4	2132.8	2146.2	2155.6	2165.0	2166.4	2170.9	2166.4
5°	1861.9	1869.3	1889.7	1912.5	1973.0	2020.6	2070.8	2122.8	2132.2	2165.9	2175.4
7.5°	1692.8	1690.8	1707.6	1734.9	1796.9	1862.9	1950.7	2054.4	2074.6	2150.5	2187.3
10°	1569.3	1567.8	1585.7	1613.9	1672.9	1735.4	1834.7	1976.4	2005.3	2126.3	2198.6
12.5°	1478.1	1478.5	1496.4	1527.6	1587.6	1650.6	1751.3	1901.1	1937.8	2098.0	2210.6
15°	1417.5	1421.5	1435.8	1469.1	1527.6	1590.6	1689.3	1844.6	1885.7	2075.7	2224.0
17.5°	1397.1	1403.6	1408.6	1432.8	1483.0	1546.0	1642.7	1802.8	1846.5	2060.3	2235.9
20°	1416.0	1423.4	1414.0	1422.5	1454.2	1509.8	1605.9	1770.1	1814.8	2042.9	2237.4
22.5°	1496.9	1503.8	1476.0	1451.8	1449.7	1483.5	1575.8	1744.3	1790.5	2030.0	2237.8
25°	1639.2	1643.7	1597.0	1540.5	1485.4	1474.1	1554.4	1726.5	1775.6	2018.6	2228.4
27.5°	1813.8	1817.3	1763.7	1680.4	1569.8	1496.4	1547.0	1716.1	1767.1	2008.7	2212.5
30°	2026.1	2042.4	1970.5	1865.4	1704.1	1562.4	1561.8	1710.7	1757.7	1991.9	2181.3
32.5°	2243.3	2250.3	2200.7	2094.0	1885.2	1678.4	1603.5	1714.6	1755.3	1971.5	2141.6
35°	2463.6	2472.5	2440.2	2354.4	2132.8	1848.5	1684.8	1737.9	1770.6	1964.6	2113.8
37.5°	2748.7	2760.6	2715.9	2616.8	2433.8	2079.1	1820.2	1796.4	1817.8	1984.4	2105.4
40°	3199.6	3194.1	3063.6	2915.8	2763.1	2374.3	2013.7	1895.6	1908.0	2048.4	2131.2
42.5°	3724.3	3711.0	3486.2	3254.1	3125.1	2731.4	2269.6	2067.7	2065.2	2174.4	2222.0
45°	4143.0	4132.0	3929.7	3643.4	3540.3	3138.1	2600.4	2324.1	2305.8	2374.3	2389.6
47.5°	4369.5	4370.0	4253.5	4019.9	4017.4	3654.9	3025.5	2695.2	2663.4	2695.7	2679.3
50°	4290.3	4300.6	4288.2	4213.8	4452.9	4332.4	3580.4	3212.5	3148.4	3180.3	3117.2
52.5°	3906.3	3919.7	3993.1	4107.2	4635.9	5151.3	4395.8	3855.2	3780.8	3769.5	3699.5
55°	3225.9	3242.2	3392.0	3702.0	4483.7	5701.3	5682.4	4674.6	4556.0	4448.4	4418.6
57.5°	2223.5	2250.8	2491.8	2952.0	3991.1	5867.4	7214.5	5842.6	5601.6	5225.6	5232.6
60°	1253.3	1285.0	1569.3	1987.4	2997.2	5686.9	8380.0	7611.8	7103.0	6135.8	6187.3
62.5°	797.1	831.2	1047.0	1380.8	1798.4	4714.8	8857.7	10071.4	9425.1	7257.6	7308.3
65°	645.3	660.1	761.8	1139.8	1305.9	2840.4	8495.1	12097.4	11856.4	8681.6	8445.5
67.5°	629.9	634.8	687.4	956.8	1252.3	1596.5	6776.0	12476.3	12743.7	10011.3	8919.2
70°	622.5	639.9	774.7	913.1	1199.3	1346.6	4072.0	11437.7	11859.9	10359.0	8288.8
72.5°	302.1	301.1	389.8	825.8	1351.0	1396.6	2092.0	9254.4	9678.0	8974.8	6811.3
75°	243.6	222.7	212.8	302.6	1298.9	1442.3	1333.2	6367.9	6674.3	6017.2	4187.0
77.5°	231.1	206.3	188.9	189.5	549.0	1529.6	1129.3	3524.5	3613.7	2718.0	1147.2
80°	191.5	168.6	156.2	176.0	265.9	1456.7	1221.1	1595.1	1463.6	667.6	381.9
82.5°	132.9	121.0	117.5	147.8	212.8	1038.1	1420.0	857.0	718.6	334.3	235.6
85°	84.8	72.4	80.3	107.6	165.6	479.2	1462.6	668.1	531.2	212.3	132.9
87.5°	39.2	31.7	39.7	59.5	108.1	165.2	1391.7	750.4	547.1	112.1	83.8
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°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2.5°	2170.4	2161.0	2153.5	2139.6	2124.3	2109.4	2096.0	2079.1	2074.1	2069.7	2076.7
5°	2177.4	2167.9	2140.6	2098.0	2050.9	2006.7	1962.6	1924.9	1901.6	1888.7	1896.1
7.5°	2187.8	2174.4	2117.8	2039.5	1954.7	1877.3	1797.4	1733.5	1686.3	1664.0	1670.5
10°	2197.2	2171.4	2079.1	1961.6	1837.6	1722.5	1596.5	1492.4	1415.0	1374.3	1384.3
12.5°	2201.2	2160.0	2025.0	1864.4	1694.3	1525.6	1340.2	1184.4	1073.3	1032.7	1024.2
15°	2205.1	2147.1	1965.6	1753.7	1521.1	1282.6	1022.7	836.3	744.0	723.6	719.1
17.5°	2206.1	2124.8	1898.1	1633.8	1318.3	993.5	699.3	580.8	581.2	614.0	618.0
20°	2195.7	2091.5	1816.2	1484.5	1075.3	686.9	480.1	459.8	534.7	616.5	626.5
22.5°	2171.9	2047.4	1723.6	1310.4	797.1	452.3	371.5	393.8	490.5	590.8	602.1
25°	2141.6	1993.8	1613.9	1108.5	527.7	323.4	311.5	338.8	404.3	471.2	477.6
27.5°	2100.4	1930.3	1491.0	877.4	342.7	266.4	274.3	292.7	319.4	349.1	352.1
30°	2047.4	1854.5	1359.5	639.9	258.9	239.6	250.9	260.9	272.3	289.2	290.6
32.5°	1986.4	1781.6	1224.6	441.9	229.7	225.7	234.6	239.6	248.5	258.9	259.9
35°	1935.3	1712.1	1084.7	312.5	217.3	215.2	221.2	223.2	231.6	243.1	244.0
37.5°	1906.1	1655.5	940.4	252.0	208.8	205.8	209.3	209.3	221.2	238.0	240.6
40°	1908.0	1624.3	796.1	227.6	201.8	197.9	198.4	198.4	213.8	232.1	233.6
42.5°	1962.1	1632.2	668.1	218.2	196.4	191.9	189.5	191.0	203.9	215.7	216.8
45°	2089.1	1688.3	548.1	212.3	191.0	189.5	184.0	183.5	188.4	194.0	194.0
47.5°	2297.3	1799.0	466.7	208.3	186.5	186.0	179.5	173.1	172.6	174.6	174.6
50°	2636.1	1989.3	412.1	203.9	183.5	179.5	172.1	162.1	158.8	160.2	160.2
52.5°	3144.0	2329.2	391.3	197.9	177.1	170.6	162.1	152.2	149.2	149.8	149.8
55°	3810.1	2850.9	388.3	191.0	170.1	159.7	152.7	145.4	141.9	142.8	142.8
57.5°	4624.0	3572.6	441.4	180.0	160.7	148.8	144.8	139.8	137.4	138.9	138.4
60°	5613.4	4516.8	654.7	168.6	151.3	138.9	138.9	134.9	132.9	134.4	133.9
62.5°	6753.2	5601.6	920.6	160.2	141.4	130.9	132.9	130.9	129.0	129.9	129.4
65°	7764.1	6308.3	862.0	153.7	131.4	123.5	126.9	126.0	124.5	125.5	125.0
67.5°	7793.4	6046.5	484.1	146.8	122.0	116.1	121.0	120.5	119.5	120.5	120.0
70°	6955.1	5105.6	272.8	133.9	112.1	107.1	114.1	113.5	112.6	114.6	114.1
72.5°	5572.3	3704.9	199.4	118.0	102.2	97.7	105.7	105.2	105.2	108.1	106.6
75°	3206.5	1906.6	159.2	101.2	91.8	88.3	95.2	95.7	96.7	100.7	97.7
77.5°	914.1	594.2	129.9	85.8	78.9	77.3	84.3	85.3	85.8	90.2	86.3
80°	339.7	273.7	107.1	71.9	64.4	65.0	71.4	72.9	73.4	77.8	72.9
82.5°	216.8	180.6	86.7	55.5	50.6	50.1	58.0	60.0	60.0	60.6	57.5
85°	126.4	108.1	65.5	40.2	35.7	34.3	43.2	46.6	45.1	44.2	42.1
87.5°	84.8	74.4	40.2	22.3	19.3	18.3	25.3	27.8	26.8	25.3	23.8
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)