

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: P200454

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7060-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10038 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G3

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

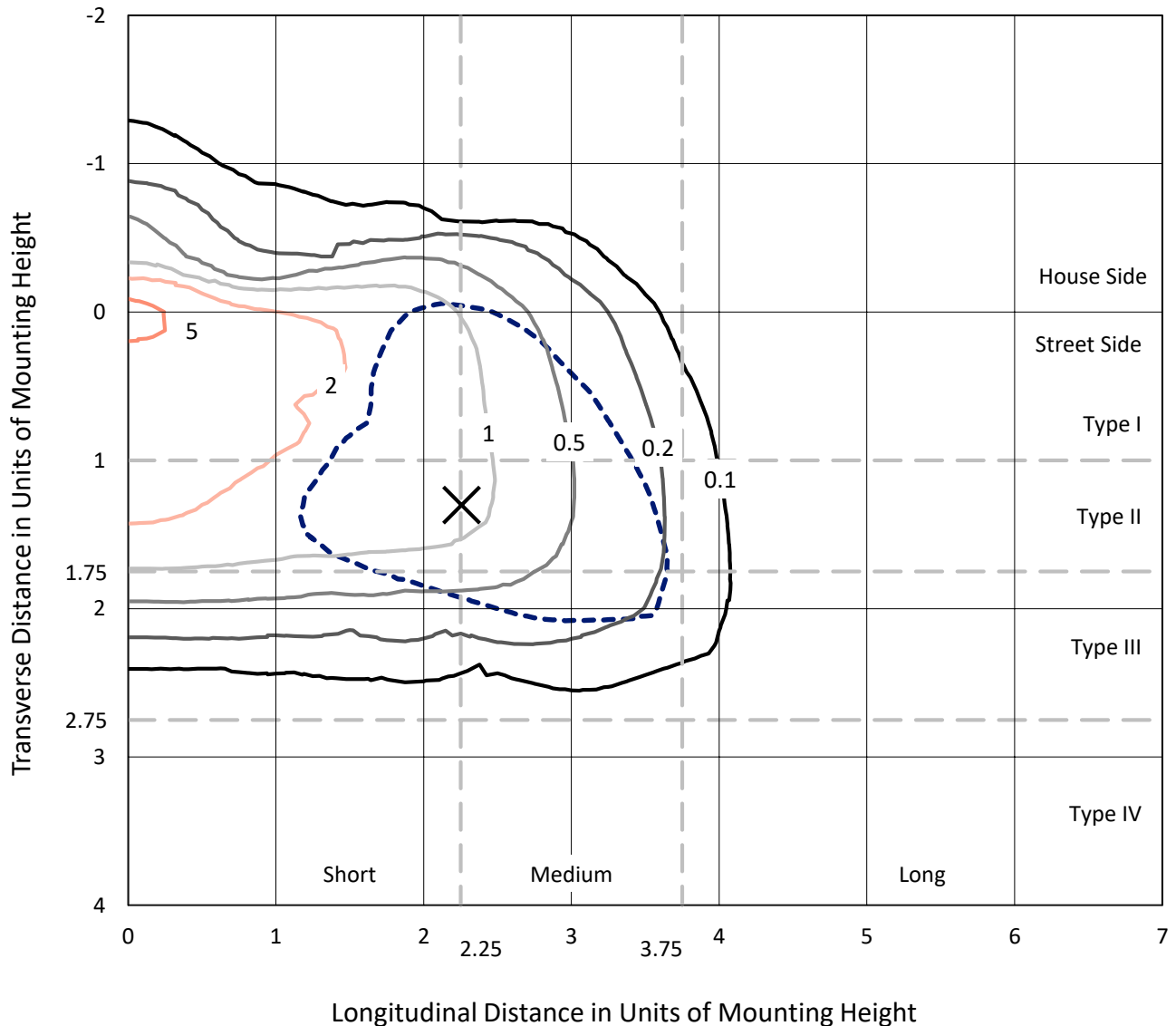


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### Iso-Footcandle Lines of Horizontal Illumination

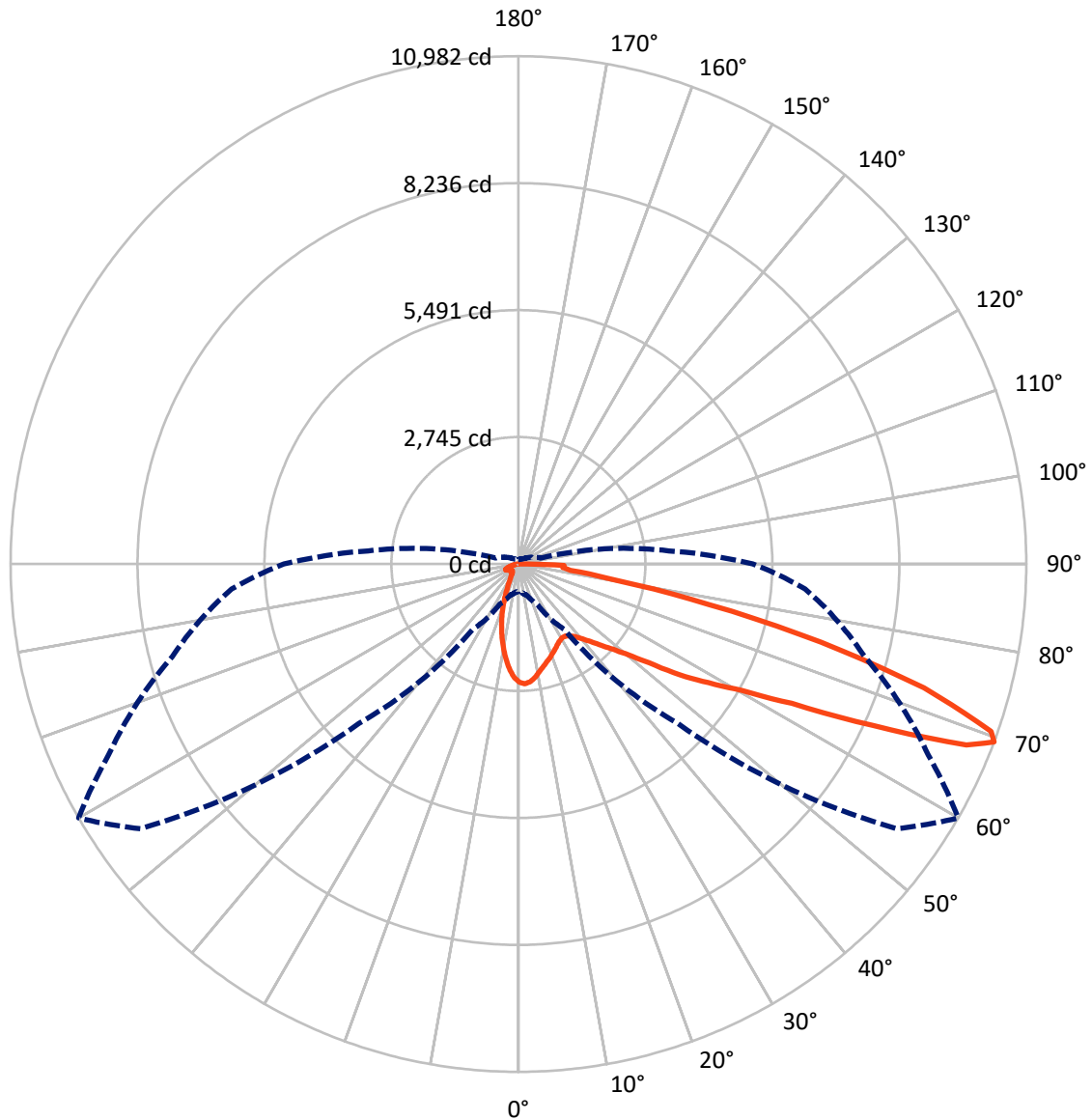
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1428.1	0.0	1428.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8609.9	0.0	8609.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	10038.0	0.0	10038.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.3	2.2
10°-20°	460.8	4.6
20°-30°	587.1	5.8
30°-40°	807.1	8.0
40°-50°	1309.7	13.0
50°-60°	2100.4	20.9
60°-70°	2795.4	27.8
70°-80°	1509.3	15.0
80°-90°	251.8	2.5
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°	10038.0	100.0
0°-180°	10038.0	100.0

**Coefficient of Utilization**



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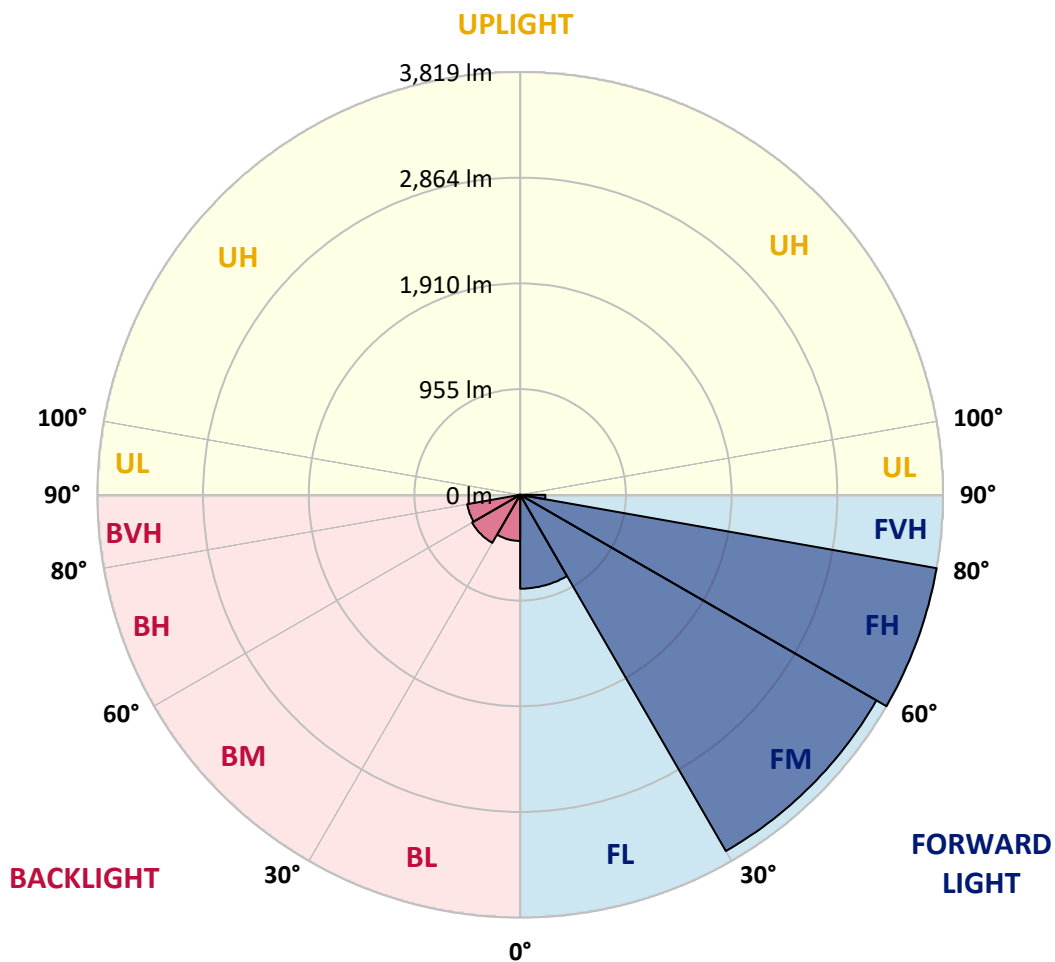
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.6	8.4			
FM (30°-60°)	3715.5	37.0			
FH (60°-80°)	3819.3	38.0			G2/5000
FVH (80°-90°)	227.6	2.3			G3/500
BL (0°-30°)	416.6	4.2	B1/500		
BM (30°-60°)	501.7	5.0	B1/1000		
BH (60°-80°)	485.5	4.8	B1/500		G1/500
BVH (80°-90°)	24.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2610.2	2616.0	2613.6	2612.1	2616.5	2609.7	2595.7	2591.3	2584.5	2568.5	2541.3
5°	2512.3	2529.7	2528.7	2541.8	2563.7	2569.5	2563.2	2564.1	2551.5	2531.7	2486.6
7.5°	2343.0	2350.3	2354.2	2382.8	2422.5	2454.6	2481.7	2490.4	2484.6	2467.6	2409.5
10°	2168.5	2174.3	2183.5	2217.0	2267.4	2311.5	2362.9	2392.5	2405.1	2402.2	2337.2
12.5°	2018.6	2024.4	2036.6	2074.4	2134.5	2188.8	2263.5	2300.4	2330.4	2348.4	2278.5
15°	1884.3	1896.9	1908.6	1952.2	2019.6	2090.9	2175.3	2221.8	2268.4	2308.6	2226.6
17.5°	1779.6	1792.2	1799.0	1838.7	1910.5	1997.8	2096.7	2151.5	2209.7	2275.6	2175.3
20°	1719.0	1724.8	1721.9	1744.2	1808.7	1901.3	2018.6	2082.2	2152.5	2244.6	2123.9
22.5°	1702.0	1702.5	1691.8	1689.4	1731.1	1809.2	1935.2	2012.3	2098.6	2224.2	2079.7
25°	1743.2	1741.8	1712.7	1688.9	1693.3	1738.8	1854.7	1944.4	2053.5	2219.9	2045.8
27.5°	1834.9	1839.2	1796.1	1751.5	1707.3	1705.9	1793.6	1888.2	2016.7	2239.7	2031.2
30°	1963.4	1970.6	1924.6	1867.8	1784.9	1716.5	1769.9	1854.7	1993.9	2281.0	2028.8
32.5°	2104.0	2111.7	2076.8	2017.2	1908.6	1782.5	1786.4	1857.6	1992.9	2338.7	2045.3
35°	2253.8	2262.5	2244.6	2194.2	2073.4	1904.2	1849.4	1904.7	2024.4	2426.9	2089.4
37.5°	2421.1	2434.7	2439.5	2391.5	2262.5	2064.7	1952.7	1993.9	2095.7	2549.6	2170.4
40°	2662.1	2681.0	2679.5	2610.7	2479.3	2281.4	2112.2	2122.9	2206.8	2713.5	2299.9
42.5°	3123.7	3127.6	3006.9	2857.0	2717.9	2509.3	2300.4	2291.6	2360.0	2921.0	2490.4
45°	3710.9	3694.9	3426.3	3136.8	2967.1	2771.2	2545.2	2502.6	2554.4	3174.1	2729.0
47.5°	4198.2	4161.4	3822.0	3422.4	3230.9	3055.8	2832.8	2758.1	2786.7	3461.2	3037.4
50°	4367.5	4339.8	4058.6	3660.0	3480.6	3403.0	3186.7	3081.0	3088.8	3803.5	3398.6
52.5°	4331.1	4327.2	4139.6	3816.6	3714.3	3767.7	3688.1	3545.1	3469.4	4183.7	3788.5
55°	4245.3	4253.5	4185.6	3999.0	3981.5	4119.7	4343.2	4237.5	4002.3	4567.3	4191.5
57.5°	3947.1	3968.4	4117.8	4228.3	4411.6	4617.2	4870.8	4840.7	4576.0	4981.8	4670.5
60°	3180.0	3229.4	3629.9	4183.7	4854.3	5497.3	5610.8	5540.9	5167.6	5496.3	5303.3
62.5°	2228.1	2279.5	2755.7	3622.2	4781.6	6491.3	6933.6	6632.4	6017.1	6254.2	6122.3
65°	1192.8	1217.6	1581.3	2513.2	4036.8	6696.4	8866.8	8408.6	7362.2	7188.6	6823.0
67.5°	658.0	671.6	810.7	1269.0	2585.5	5896.8	10098.5	10444.7	9043.3	7810.7	6695.5
69°	595.0	607.6	698.7	961.1	1730.1	4875.6	9978.2	10981.5	9780.4	7749.1	6224.1
70°	581.9	593.5	675.5	885.9	1400.4	4018.8	9575.3	10844.2	9955.9	7528.5	5813.0
72.5°	523.7	536.3	615.8	795.7	1196.7	2003.6	7584.8	9168.9	9039.0	6527.7	4409.2
75°	488.3	499.9	634.7	779.2	1145.8	1268.0	5000.3	6757.5	6644.6	4566.3	2377.5
77.5°	209.0	208.0	294.3	659.5	1162.8	1227.8	2686.8	4221.5	3851.5	1951.7	682.7
80°	139.7	137.2	139.7	194.0	1066.3	1234.5	1407.7	2142.8	1618.6	497.5	336.5
82.5°	120.3	118.3	122.7	118.3	374.8	1409.1	1196.7	1139.5	769.5	282.7	166.8
85°	81.0	77.6	105.7	106.2	177.0	1252.0	1348.0	962.5	622.6	167.8	82.4
87.5°	38.8	37.8	61.6	75.2	103.8	508.7	1512.4	986.3	627.9	85.8	39.3
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°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2533.1	2513.2	2493.8	2470.6	2446.3	2419.2	2405.6	2392.0	2388.6	2384.7	2371.1
5°	2463.3	2435.2	2386.7	2333.3	2277.1	2222.3	2180.6	2154.4	2134.5	2124.3	2106.4
7.5°	2373.1	2331.9	2247.0	2154.9	2060.3	1974.0	1899.3	1852.3	1807.7	1786.8	1763.1
10°	2287.3	2225.7	2093.8	1958.0	1822.2	1691.8	1569.1	1482.3	1405.2	1362.1	1331.5
12.5°	2213.6	2129.2	1946.4	1762.6	1576.4	1390.7	1206.9	1062.4	941.7	878.1	845.7
15°	2141.8	2040.0	1806.2	1573.0	1334.0	1081.3	839.8	675.9	576.1	536.3	522.7
17.5°	2076.8	1946.4	1665.6	1382.0	1083.7	778.3	564.4	474.2	435.9	422.8	418.5
20°	2006.5	1851.8	1519.7	1182.2	822.9	544.1	440.8	401.0	385.5	381.6	379.7
22.5°	1938.6	1758.7	1380.0	968.3	591.1	419.9	378.7	362.2	359.8	363.2	363.2
25°	1880.9	1675.3	1229.2	744.8	434.0	353.5	338.9	335.1	344.3	356.9	359.3
27.5°	1837.8	1607.0	1068.7	549.9	345.7	307.4	306.9	313.2	336.0	360.3	365.1
30°	1808.2	1542.0	897.1	396.6	290.0	270.6	278.3	291.9	325.4	359.8	369.0
32.5°	1793.2	1494.0	718.1	306.9	248.3	237.6	250.7	267.2	300.2	332.2	344.3
35°	1804.8	1458.6	549.4	256.0	219.2	210.9	224.5	240.5	259.9	273.5	282.7
37.5°	1848.4	1444.5	414.6	229.4	199.3	191.5	202.2	211.4	219.2	223.1	227.4
40°	1942.5	1459.5	332.2	215.8	188.1	178.4	182.8	186.2	191.0	194.9	196.9
42.5°	2081.2	1504.6	297.7	210.4	182.3	168.3	167.3	168.7	175.0	182.3	183.8
45°	2275.1	1584.2	295.3	213.8	179.4	160.0	155.7	157.6	167.3	178.4	180.4
47.5°	2522.9	1705.4	314.7	224.0	181.8	155.7	148.4	150.8	162.9	178.0	180.4
50°	2823.1	1874.6	347.2	239.1	192.5	156.6	146.0	147.4	160.0	176.5	178.9
52.5°	3177.5	2114.6	382.6	253.6	203.7	162.9	147.9	144.5	156.1	170.7	173.6
55°	3571.8	2422.5	419.0	266.7	209.5	170.7	151.8	140.6	148.9	161.0	163.4
57.5°	4055.7	2853.1	482.0	279.3	213.4	176.0	155.7	136.7	139.7	148.4	150.3
60°	4710.8	3462.2	593.0	300.2	222.1	178.0	155.2	133.3	130.4	135.3	136.3
62.5°	5495.8	4123.6	685.6	326.3	236.6	179.4	152.3	130.9	122.7	122.7	123.6
65°	5961.8	4300.6	634.2	348.2	248.8	178.0	148.9	128.5	116.9	111.5	112.0
67.5°	5566.6	3782.2	543.6	352.5	248.3	171.2	143.5	124.1	111.0	102.8	102.3
69°	5071.5	3263.4	502.8	340.9	236.6	162.4	136.7	119.3	106.7	97.9	97.5
70°	4672.5	2946.7	476.2	328.3	224.0	156.1	131.4	114.9	103.3	95.0	94.1
72.5°	3397.2	1930.9	406.8	282.2	184.7	130.9	113.5	100.9	92.1	87.3	86.3
75°	1697.6	920.8	330.2	228.9	141.6	104.7	93.1	84.4	80.0	79.0	78.6
77.5°	557.6	421.9	236.1	170.7	105.2	81.9	75.2	68.9	67.9	70.8	69.8
80°	306.5	245.4	149.8	113.0	71.8	60.1	59.2	55.8	57.2	62.1	61.1
82.5°	156.1	127.5	92.6	67.9	48.5	43.2	47.0	45.1	47.0	51.4	50.9
85°	77.1	69.8	58.7	41.2	32.0	27.6	33.5	34.9	35.9	39.3	39.3
87.5°	44.6	41.2	31.0	19.4	16.0	14.5	19.4	18.9	22.3	24.2	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)