

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: P200134

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200134  
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-SL3-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 10268.4 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

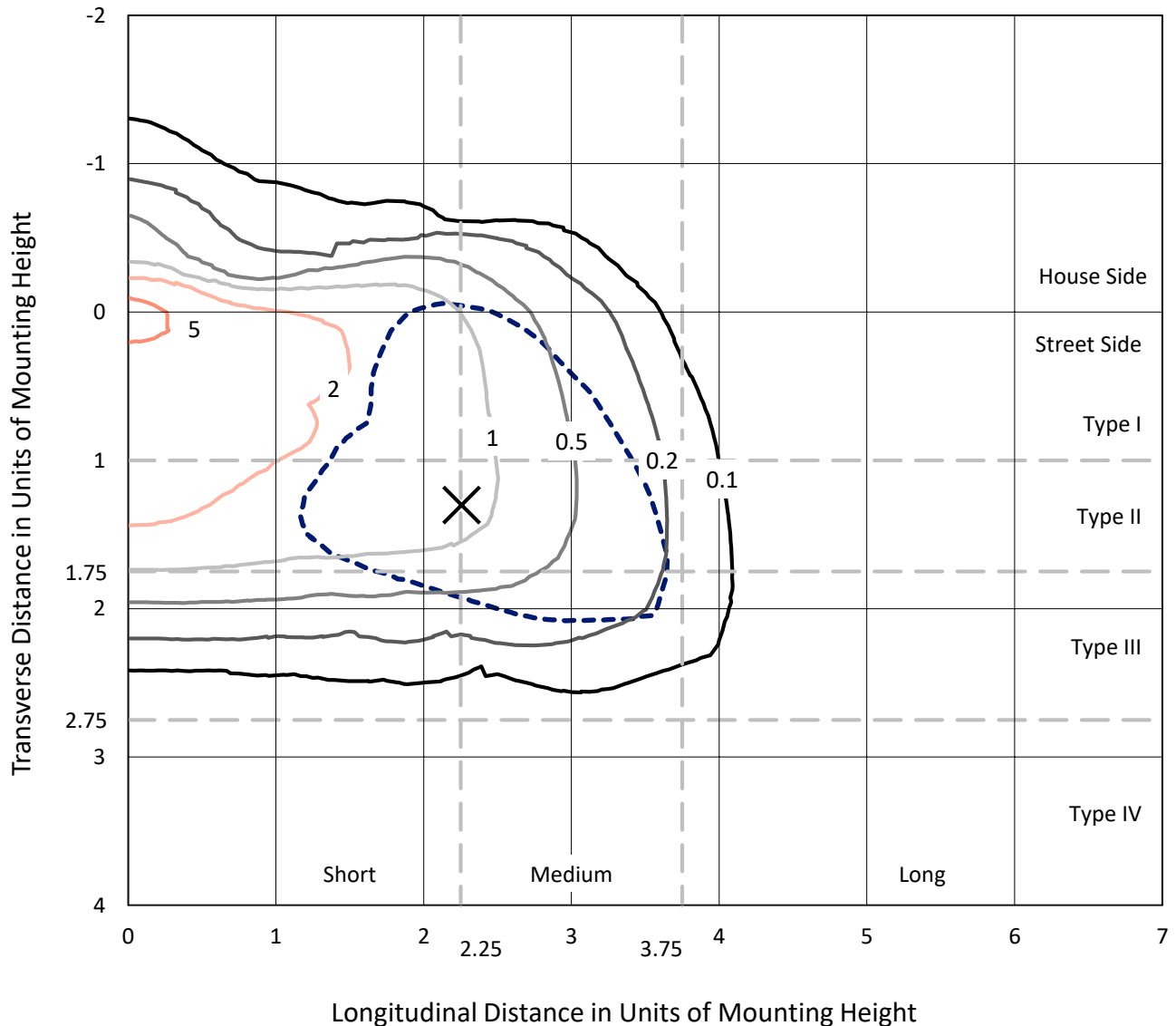
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

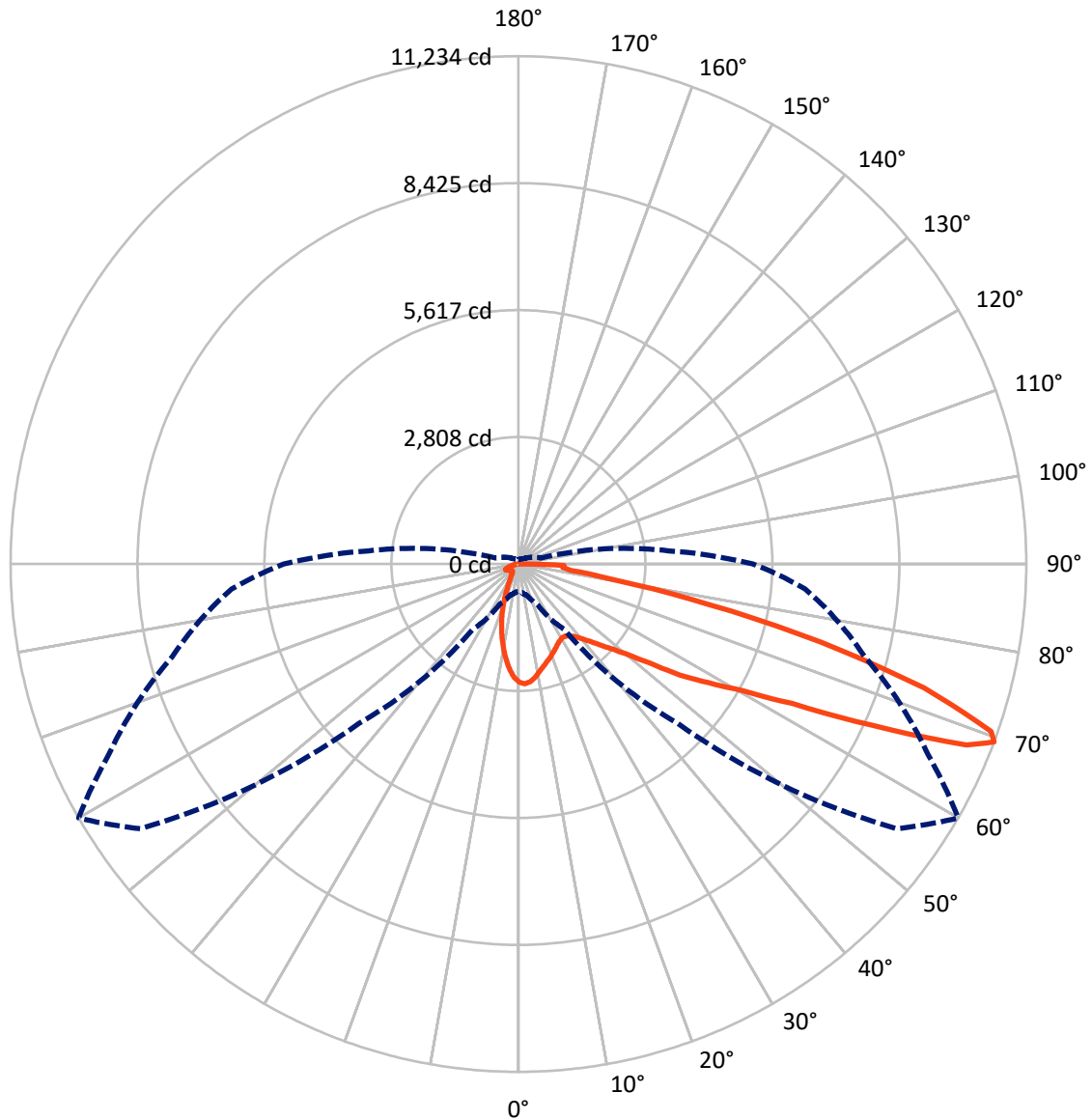
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1460.9	0.0	1460.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8807.5	0.0	8807.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	10268.4	0.0	10268.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	2.2
10°-20°	471.4	4.6
20°-30°	600.6	5.8
30°-40°	825.7	8.0
40°-50°	1339.7	13.0
50°-60°	2148.6	20.9
60°-70°	2859.6	27.8
70°-80°	1544.0	15.0
80°-90°	257.6	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°	10268.4	100.0
0°-180°	10268.4	100.0

**Coefficient of Utilization**



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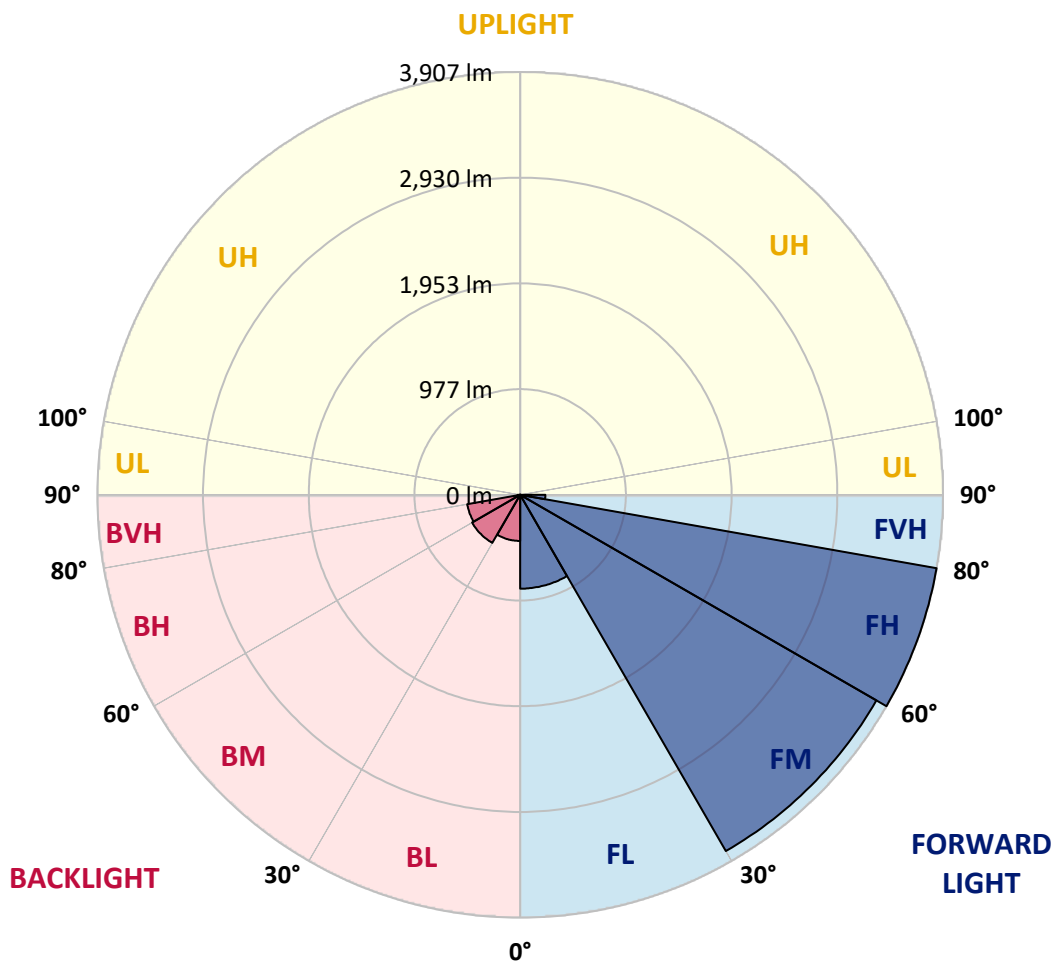
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.0	8.4			
FM	(30°-60°)	3800.8	37.0			
FH	(60°-80°)	3906.9	38.0			G2/5000
FVH	(80°-90°)	232.8	2.3			G3/500
BL	(0°-30°)	426.2	4.2	B1/500		
BM	(30°-60°)	513.2	5.0	B1/1000		
BH	(60°-80°)	496.6	4.8	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5
2.5°	2670.1	2676.0	2673.6	2672.0	2676.6	2669.6	2655.3	2650.8	2643.8	2627.4	2599.6
5°	2570.0	2587.8	2586.7	2600.1	2622.5	2628.5	2622.0	2622.9	2610.1	2589.8	2543.7
7.5°	2396.8	2404.2	2408.2	2437.5	2478.1	2510.9	2538.7	2547.6	2541.6	2524.2	2464.8
10°	2218.3	2224.2	2233.6	2267.9	2319.4	2364.6	2417.1	2447.4	2460.3	2457.3	2390.8
12.5°	2064.9	2070.9	2083.3	2122.0	2183.5	2239.0	2315.4	2353.2	2383.9	2402.3	2330.8
15°	1927.5	1940.4	1952.4	1997.0	2066.0	2138.9	2225.2	2272.8	2320.5	2361.6	2277.7
17.5°	1820.4	1833.3	1840.3	1880.9	1954.3	2043.7	2144.8	2200.9	2260.4	2327.8	2225.2
20°	1758.5	1764.4	1761.4	1784.2	1850.2	1944.9	2064.9	2130.0	2201.9	2296.1	2172.6
22.5°	1741.1	1741.6	1730.6	1728.2	1770.8	1850.7	1979.6	2058.5	2146.8	2275.2	2127.4
25°	1783.2	1781.8	1752.0	1727.7	1732.2	1778.7	1897.3	1989.0	2100.6	2270.8	2092.8
27.5°	1877.0	1881.4	1837.3	1791.7	1746.5	1745.1	1834.8	1931.5	2063.0	2291.1	2077.8
30°	2008.5	2015.8	1968.8	1910.7	1825.9	1755.9	1810.5	1897.3	2039.7	2333.4	2075.4
32.5°	2152.3	2160.2	2124.5	2063.5	1952.4	1823.4	1827.4	1900.2	2038.6	2392.4	2092.2
35°	2305.5	2314.4	2296.1	2244.6	2121.0	1947.9	1891.8	1948.4	2070.9	2482.6	2137.4
37.5°	2476.7	2490.6	2495.5	2446.4	2314.4	2112.1	1997.5	2039.7	2143.8	2608.1	2220.2
40°	2723.2	2742.5	2741.0	2670.6	2536.2	2333.8	2160.7	2171.6	2257.4	2775.8	2352.7
42.5°	3195.4	3199.4	3075.9	2922.6	2780.3	2566.9	2353.2	2344.2	2414.2	2988.0	2547.6
45°	3796.1	3779.7	3504.9	3208.8	3035.2	2834.8	2603.6	2560.0	2613.0	3246.9	2791.6
47.5°	4294.6	4256.9	3909.7	3500.9	3305.1	3125.9	2897.8	2821.4	2850.7	3540.6	3107.1
50°	4467.7	4439.4	4151.7	3744.0	3560.5	3481.1	3259.8	3151.7	3159.7	3890.8	3476.6
52.5°	4430.5	4426.5	4234.6	3904.2	3799.5	3854.2	3772.7	3626.5	3549.0	4279.7	3875.4
55°	4342.7	4351.1	4281.7	4090.8	4072.9	4214.3	4442.9	4334.8	4094.2	4672.1	4287.7
57.5°	4037.7	4059.5	4212.3	4325.3	4512.8	4723.2	4982.6	4951.8	4681.0	5096.1	4777.7
60°	3253.0	3303.5	3713.2	4279.7	4965.7	5623.5	5739.6	5668.1	5286.2	5622.4	5425.0
62.5°	2279.2	2331.8	2818.9	3705.3	4891.3	6640.3	7092.7	6784.6	6155.2	6397.7	6262.8
65°	1220.2	1245.5	1617.6	2570.9	4129.4	6850.1	9070.3	8601.6	7531.2	7353.6	6979.6
67.5°	673.1	687.0	829.3	1298.1	2644.8	6032.1	10330.3	10684.4	9250.9	7990.0	6849.2
69°	608.7	621.5	714.7	983.2	1769.8	4987.5	10207.2	11233.5	10004.9	7926.9	6366.9
70°	595.3	607.1	691.0	906.2	1432.5	4111.0	9795.1	11093.1	10184.4	7701.3	5946.4
72.5°	535.7	548.6	629.9	814.0	1224.2	2049.6	7758.9	9379.3	9246.5	6677.5	4510.4
75°	499.5	511.4	649.3	797.1	1172.1	1297.1	5115.1	6912.6	6797.1	4671.1	2432.1
77.5°	213.8	212.8	301.1	674.6	1189.5	1256.0	2748.5	4318.4	3939.9	1996.5	698.4
80°	142.9	140.3	142.9	198.5	1090.8	1262.8	1440.0	2192.0	1655.7	508.9	344.2
82.5°	123.1	121.0	125.5	121.0	383.4	1441.4	1224.2	1165.7	787.2	289.2	170.6
85°	82.9	79.4	108.1	108.6	181.1	1280.7	1378.9	984.6	636.9	171.7	84.3
87.5°	39.7	38.7	63.0	76.9	106.2	520.4	1547.1	1008.9	642.3	87.8	40.2
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°	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5	2616.5
2.5°	2591.2	2570.9	2551.0	2527.3	2502.4	2474.7	2460.8	2446.9	2443.4	2439.4	2425.5
5°	2519.8	2491.1	2441.5	2386.9	2329.4	2273.3	2230.6	2203.8	2183.5	2173.1	2154.7
7.5°	2427.6	2385.4	2298.6	2204.4	2107.6	2019.3	1942.9	1894.8	1849.2	1827.8	1803.6
10°	2339.8	2276.8	2141.9	2002.9	1864.0	1730.6	1605.1	1516.3	1437.5	1393.4	1362.1
12.5°	2264.4	2178.1	1991.1	1803.1	1612.6	1422.6	1234.6	1086.8	963.3	898.3	865.1
15°	2191.0	2086.8	1847.7	1609.1	1364.6	1106.1	859.1	691.4	589.3	548.6	534.7
17.5°	2124.5	1991.1	1703.8	1413.7	1108.6	796.2	577.4	485.1	445.9	432.5	428.1
20°	2052.6	1894.3	1554.6	1209.3	841.8	556.6	450.9	410.2	394.3	390.4	388.4
22.5°	1983.1	1799.1	1411.7	990.5	604.7	429.5	387.4	370.5	368.1	371.5	371.5
25°	1924.1	1713.7	1257.4	761.9	444.0	361.6	346.7	342.8	352.2	365.1	367.5
27.5°	1880.0	1643.9	1093.2	562.5	353.6	314.5	313.9	320.4	343.7	368.6	373.5
30°	1849.7	1577.4	917.7	405.7	296.7	276.8	284.7	298.6	332.9	368.1	377.5
32.5°	1834.4	1528.3	734.6	313.9	254.0	243.1	256.5	273.3	307.1	339.8	352.2
35°	1846.2	1492.1	562.0	261.9	224.2	215.7	229.7	246.0	265.9	279.8	289.2
37.5°	1890.8	1477.7	424.1	234.7	203.9	195.9	206.8	216.3	224.2	228.2	232.6
40°	1987.1	1493.0	339.8	220.8	192.4	182.5	187.0	190.5	195.4	199.4	201.4
42.5°	2129.0	1539.1	304.5	215.2	186.5	172.2	171.1	172.6	179.0	186.5	188.0
45°	2327.3	1620.6	302.1	218.7	183.5	163.7	159.3	161.2	171.1	182.5	184.5
47.5°	2580.8	1744.5	321.9	229.1	186.0	159.3	151.8	154.3	166.6	182.1	184.5
50°	2887.9	1917.6	355.2	244.6	196.9	160.2	149.4	150.8	163.7	180.6	183.0
52.5°	3250.4	2163.1	391.4	259.4	208.4	166.6	151.3	147.8	159.7	174.6	177.6
55°	3653.8	2478.1	428.6	272.8	214.3	174.6	155.3	143.8	152.3	164.7	167.2
57.5°	4148.8	2918.6	493.1	285.7	218.3	180.0	159.3	139.8	142.9	151.8	153.7
60°	4818.9	3541.7	606.6	307.1	227.2	182.1	158.8	136.4	133.4	138.4	139.4
62.5°	5621.9	4218.2	701.3	333.8	242.0	183.5	155.8	133.9	125.5	125.5	126.4
65°	6098.6	4399.3	648.8	356.2	254.5	182.1	152.3	131.4	119.6	114.1	114.6
67.5°	5694.4	3869.0	556.1	360.6	254.0	175.1	146.8	126.9	113.5	105.2	104.6
69°	5187.9	3338.3	514.3	348.7	242.0	166.1	139.8	122.0	109.1	100.1	99.7
70°	4779.7	3014.3	487.1	335.8	229.1	159.7	134.4	117.5	105.7	97.2	96.3
72.5°	3475.2	1975.2	416.1	288.7	188.9	133.9	116.1	103.2	94.2	89.3	88.3
75°	1736.6	941.9	337.8	234.2	144.8	107.1	95.2	86.3	81.8	80.8	80.4
77.5°	570.4	431.6	241.5	174.6	107.6	83.8	76.9	70.5	69.5	72.4	71.4
80°	313.5	251.0	153.2	115.6	73.4	61.5	60.6	57.1	58.5	63.5	62.5
82.5°	159.7	130.4	94.7	69.5	49.6	44.2	48.1	46.1	48.1	52.6	52.1
85°	78.9	71.4	60.0	42.1	32.7	28.2	34.3	35.7	36.7	40.2	40.2
87.5°	45.6	42.1	31.7	19.8	16.4	14.8	19.8	19.3	22.8	24.8	24.3
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)