

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: P200280

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200280  
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-SL2-7050  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA 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: 12170 lumens  
Efficiency: N/A  
Efficacy: 107.7 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 - G3

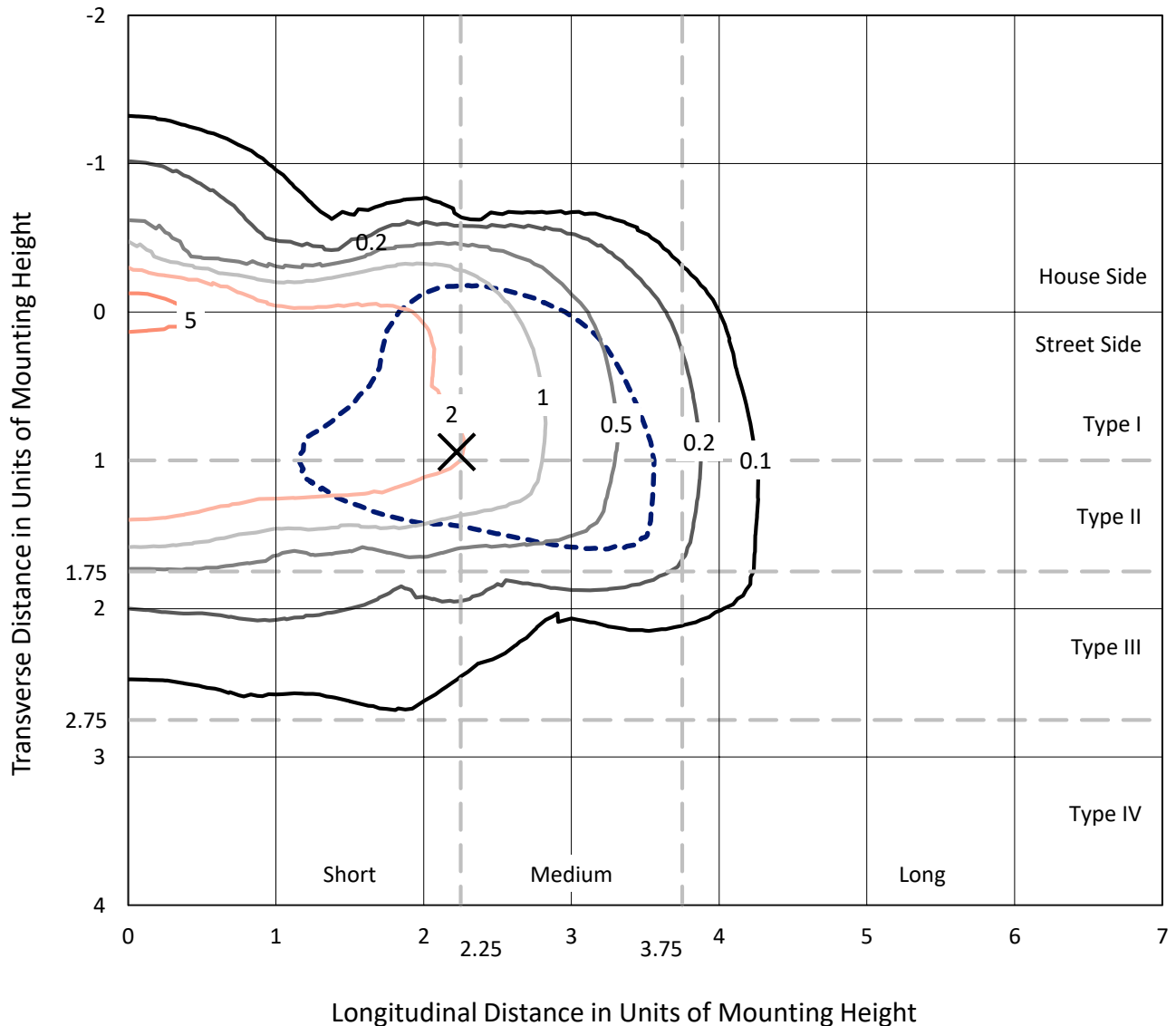
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

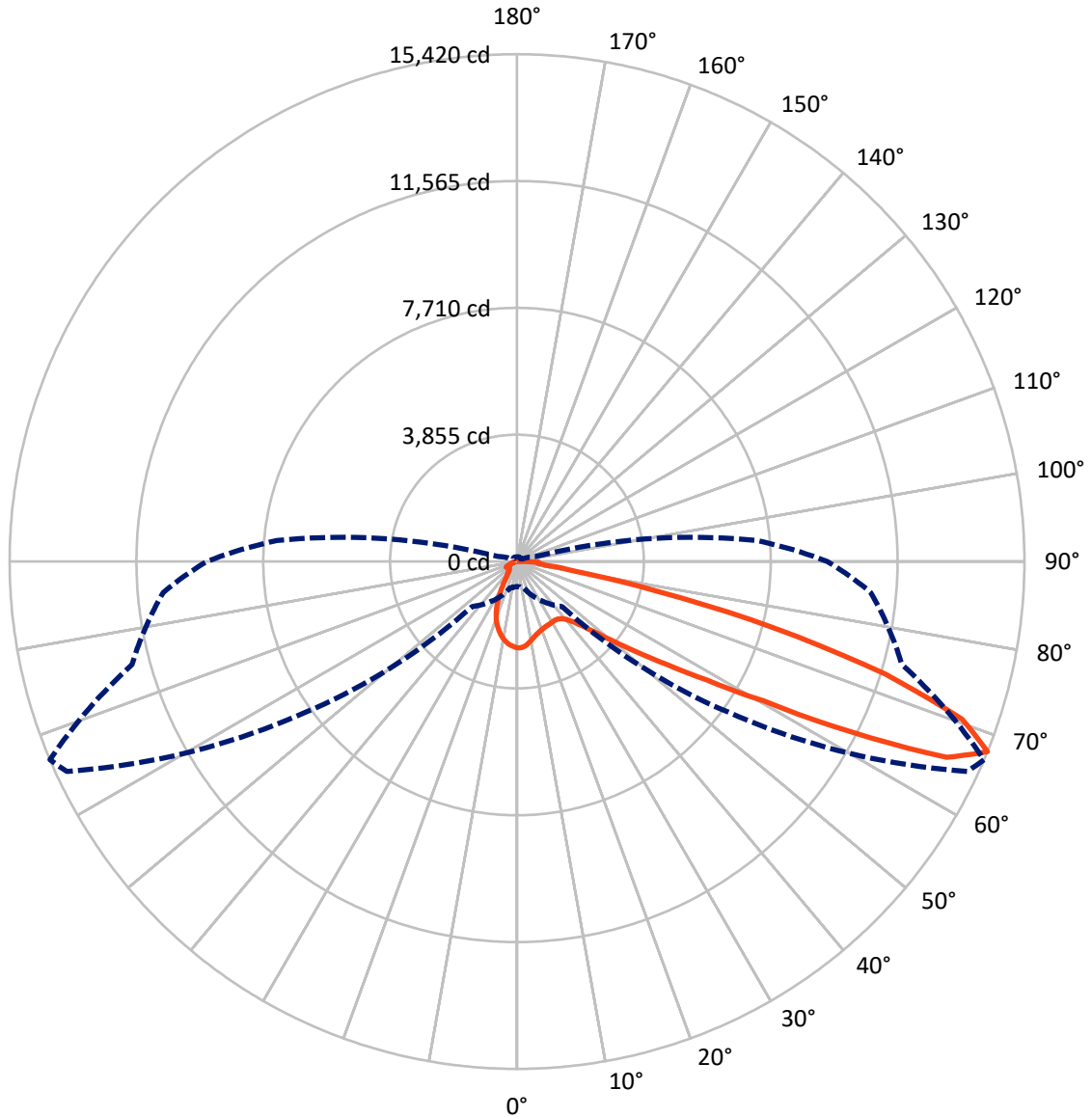
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	2016.4	0.0	2016.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	10153.6	0.0	10153.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	12170.0	0.0	12170.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.0	1.8
10°-20°	518.2	4.3
20°-30°	702.4	5.8
30°-40°	998.6	8.2
40°-50°	1670.7	13.7
50°-60°	2642.9	21.7
60°-70°	3366.8	27.7
70°-80°	1763.5	14.5
80°-90°	282.8	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°	12170.0	100.0
0°-180°	12170.0	100.0

**Coefficient of Utilization**



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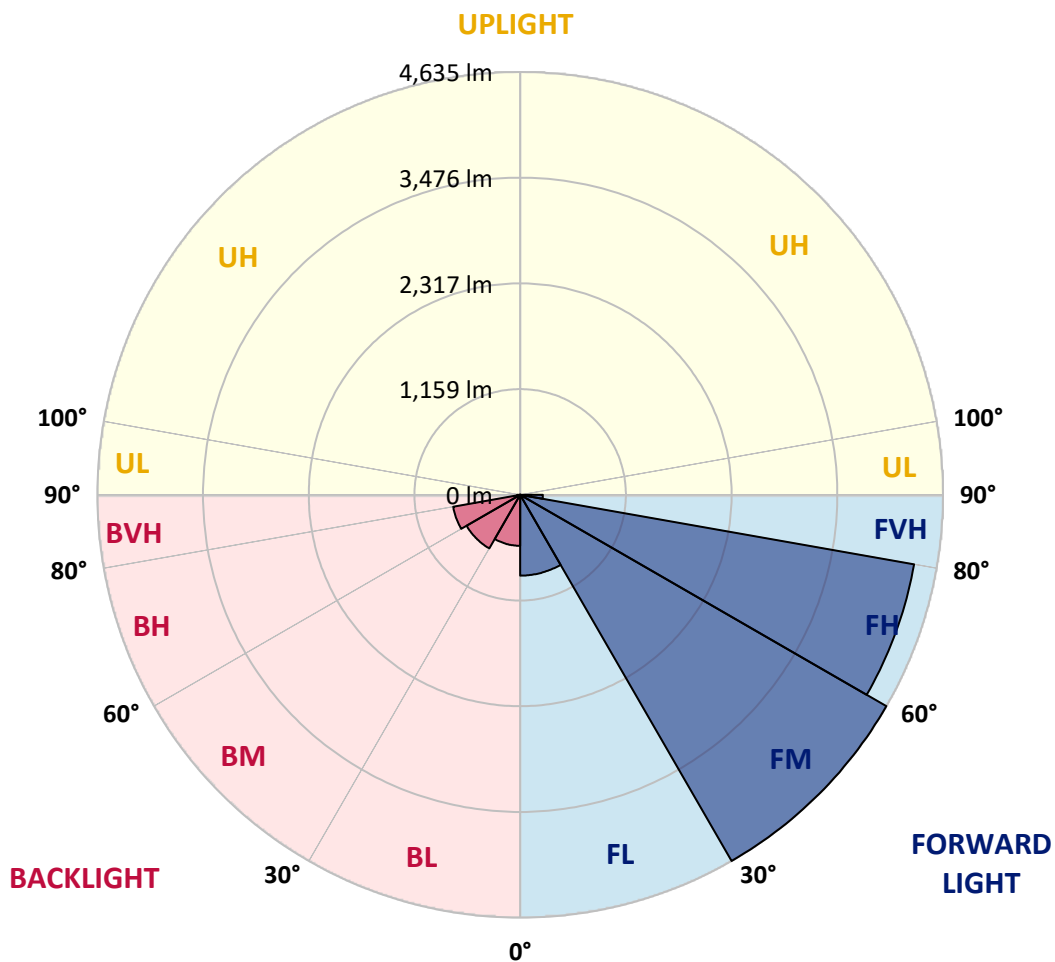
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.7	7.3			
FM	(30°-60°)	4634.6	38.1			
FH	(60°-80°)	4384.6	36.0			G2/5000
FVH	(80°-90°)	248.7	2.0			G3/500
BL	(0°-30°)	558.9	4.6	B2/1000		
BM	(30°-60°)	677.6	5.6	B1/1000		
BH	(60°-80°)	745.8	6.1	B2/1000		G2/1000
BVH	(80°-90°)	34.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0
2.5°	2517.0	2521.2	2534.4	2542.8	2580.6	2596.8	2608.2	2619.6	2621.4	2626.8	2621.4
5°	2252.9	2262.0	2286.6	2314.2	2387.4	2445.0	2505.6	2568.6	2580.0	2620.8	2632.2
7.5°	2048.3	2045.9	2066.3	2099.3	2174.3	2254.1	2360.4	2485.8	2510.4	2602.2	2646.6
10°	1898.9	1897.1	1918.7	1952.9	2024.3	2099.9	2219.9	2391.6	2426.4	2572.8	2660.4
12.5°	1788.4	1789.0	1810.6	1848.5	1921.1	1997.3	2119.1	2300.4	2344.8	2538.6	2674.9
15°	1715.2	1720.0	1737.4	1777.6	1848.5	1924.7	2044.1	2231.9	2281.8	2511.6	2691.1
17.5°	1690.6	1698.4	1704.4	1733.8	1794.4	1870.7	1987.7	2181.5	2234.3	2493.0	2705.5
20°	1713.4	1722.4	1711.0	1721.2	1759.6	1826.8	1943.3	2141.9	2195.9	2472.0	2707.3
22.5°	1811.2	1819.6	1786.0	1756.6	1754.2	1795.0	1906.7	2110.7	2166.5	2456.4	2707.9
25°	1983.5	1988.9	1932.5	1864.1	1797.4	1783.6	1880.9	2089.1	2148.5	2442.6	2696.5
27.5°	2194.7	2198.9	2134.1	2033.3	1899.5	1810.6	1871.9	2076.5	2138.3	2430.6	2677.3
30°	2451.6	2471.4	2384.4	2257.1	2062.1	1890.5	1889.9	2069.9	2126.9	2410.2	2639.4
32.5°	2714.5	2722.9	2662.8	2533.8	2281.2	2030.9	1940.3	2074.7	2123.9	2385.6	2591.4
35°	2980.9	2991.7	2952.7	2848.9	2580.6	2236.7	2038.7	2102.9	2142.5	2377.2	2557.8
37.5°	3326.0	3340.4	3286.4	3166.4	2944.9	2515.8	2202.5	2173.7	2199.5	2401.2	2547.6
40°	3871.5	3864.9	3707.1	3528.3	3343.4	2872.9	2436.6	2293.8	2308.8	2478.6	2578.8
42.5°	4506.5	4490.3	4218.4	3937.6	3781.5	3305.0	2746.3	2502.0	2499.0	2631.0	2688.7
45°	5013.0	4999.8	4755.0	4408.7	4283.8	3797.1	3146.6	2812.3	2790.1	2872.9	2891.5
47.5°	5287.3	5287.9	5146.9	4864.2	4861.2	4422.5	3660.9	3261.2	3222.8	3261.8	3242.0
50°	5191.3	5203.9	5188.9	5098.8	5388.1	5242.3	4332.5	3887.1	3809.7	3848.1	3771.9
52.5°	4726.8	4743.0	4831.8	4969.8	5609.6	6233.1	5319.1	4664.9	4574.9	4561.1	4476.5
55°	3903.4	3923.2	4104.4	4479.5	5425.3	6898.7	6875.9	5656.4	5512.9	5382.7	5346.7
57.5°	2690.5	2723.5	3015.1	3572.1	4829.4	7099.7	8729.7	7069.7	6778.1	6323.1	6331.5
60°	1516.6	1555.0	1898.9	2404.8	3626.7	6881.3	10140.1	9210.4	8594.7	7424.4	7486.8
62.5°	964.4	1005.8	1266.9	1670.8	2176.1	5705.0	10718.0	12186.6	11404.6	8781.9	8843.2
65°	780.8	798.8	921.8	1379.1	1580.2	3437.0	10279.3	14638.2	14346.5	10505.0	10219.3
67.5°	762.2	768.2	831.8	1157.7	1515.4	1931.9	8199.2	15096.7	15420.2	12113.9	10792.4
70°	753.2	774.2	937.4	1104.9	1451.2	1629.4	4927.2	13840.0	14350.7	12534.7	10029.6
72.5°	365.5	364.3	471.7	999.2	1634.8	1690.0	2531.4	11198.1	11710.7	10859.6	8241.8
75°	294.7	269.5	257.5	366.1	1571.8	1745.2	1613.2	7705.3	8076.2	7281.0	5066.4
77.5°	279.7	249.7	228.7	229.3	664.4	1850.9	1366.5	4264.6	4372.7	3288.8	1388.1
80°	231.7	204.0	189.0	213.1	321.7	1762.6	1477.6	1930.1	1771.0	807.8	462.1
82.5°	160.8	146.4	142.2	178.8	257.5	1256.1	1718.2	1037.1	869.6	404.5	285.1
85°	102.6	87.6	97.2	130.2	200.4	579.7	1769.8	808.4	642.8	256.9	160.8
87.5°	47.4	38.4	48.0	72.0	130.8	199.8	1684.0	908.0	662.0	135.6	101.4
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°	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0	2625.0
2.5°	2626.2	2614.8	2605.8	2589.0	2570.4	2552.4	2536.2	2515.8	2509.8	2504.4	2512.8
5°	2634.6	2623.2	2590.2	2538.6	2481.6	2428.2	2374.8	2329.2	2301.0	2285.4	2294.4
7.5°	2647.2	2631.0	2562.6	2467.8	2365.2	2271.6	2174.9	2097.5	2040.5	2013.5	2021.3
10°	2658.6	2627.4	2515.8	2373.6	2223.5	2084.3	1931.9	1805.8	1712.2	1663.0	1675.0
12.5°	2663.4	2613.6	2450.4	2255.9	2050.1	1846.0	1621.6	1433.1	1298.7	1249.5	1239.3
15°	2668.2	2598.0	2378.4	2122.1	1840.6	1552.0	1237.5	1011.8	900.2	875.6	870.2
17.5°	2669.5	2571.0	2296.8	1976.9	1595.2	1202.1	846.2	702.8	703.4	743.0	747.8
20°	2656.8	2530.8	2197.7	1796.2	1301.1	831.2	580.9	556.3	647.0	746.0	758.0
22.5°	2628.0	2477.4	2085.5	1585.6	964.4	547.3	449.5	476.5	593.5	714.8	728.6
25°	2591.4	2412.6	1952.9	1341.3	638.6	391.3	376.9	409.9	489.1	570.1	577.9
27.5°	2541.6	2335.8	1804.0	1061.7	414.7	322.3	331.9	354.1	386.5	422.5	426.1
30°	2477.4	2243.9	1645.0	774.2	313.3	289.9	303.7	315.7	329.5	349.9	351.7
32.5°	2403.6	2155.7	1481.8	534.7	277.9	273.1	283.9	289.9	300.7	313.3	314.5
35°	2341.8	2071.7	1312.5	378.1	262.9	260.5	267.7	270.1	280.3	294.1	295.3
37.5°	2306.4	2003.3	1137.9	304.9	252.7	249.1	253.3	253.3	267.7	288.1	291.1
40°	2308.8	1965.5	963.2	275.5	244.3	239.5	240.1	240.1	258.7	280.9	282.7
42.5°	2374.2	1975.1	808.4	264.1	237.7	232.3	229.3	231.1	246.7	261.1	262.3
45°	2527.8	2042.9	663.2	256.9	231.1	229.3	222.7	222.1	228.1	234.7	234.7
47.5°	2779.9	2176.7	564.7	252.1	225.7	225.1	217.3	209.5	208.9	211.3	211.3
50°	3189.8	2407.2	498.7	246.7	222.1	217.3	208.3	196.2	192.0	193.8	193.8
52.5°	3804.3	2818.3	473.5	239.5	214.3	206.5	196.2	184.2	180.6	181.2	181.2
55°	4610.3	3449.6	469.9	231.1	205.9	193.2	184.8	175.8	171.6	172.8	172.8
57.5°	5595.2	4322.9	534.1	217.9	194.4	180.0	175.2	169.2	166.2	168.0	167.4
60°	6792.5	5465.5	792.2	204.0	183.0	168.0	168.0	163.2	160.8	162.6	162.0
62.5°	8171.6	6778.1	1113.9	193.8	171.0	158.4	160.8	158.4	156.0	157.2	156.6
65°	9394.7	7633.3	1043.1	186.0	159.0	149.4	153.6	152.4	150.6	151.8	151.2
67.5°	9430.1	7316.4	585.7	177.6	147.6	140.4	146.4	145.8	144.6	145.8	145.2
70°	8415.8	6177.9	330.1	162.0	135.6	129.6	138.0	137.4	136.2	138.6	138.0
72.5°	6742.6	4483.1	241.3	142.8	123.6	118.2	127.8	127.2	127.2	130.8	129.0
75°	3879.9	2307.0	192.6	122.4	111.0	106.8	115.2	115.8	117.0	121.8	118.2
77.5°	1106.1	719.0	157.2	103.8	95.4	93.6	102.0	103.2	103.8	109.2	104.4
80°	411.1	331.3	129.6	87.0	78.0	78.6	86.4	88.2	88.8	94.2	88.2
82.5°	262.3	218.5	105.0	67.2	61.2	60.6	70.2	72.6	72.6	73.2	69.6
85°	153.0	130.8	79.2	48.6	43.2	41.4	52.2	56.4	54.6	53.4	51.0
87.5°	102.6	90.0	48.6	27.0	23.4	22.2	30.6	33.6	32.4	30.6	28.8
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)