

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: P199962

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199962
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-SL2-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 12911.2 lumens
Efficiency: N/A
Efficacy: 100.1 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

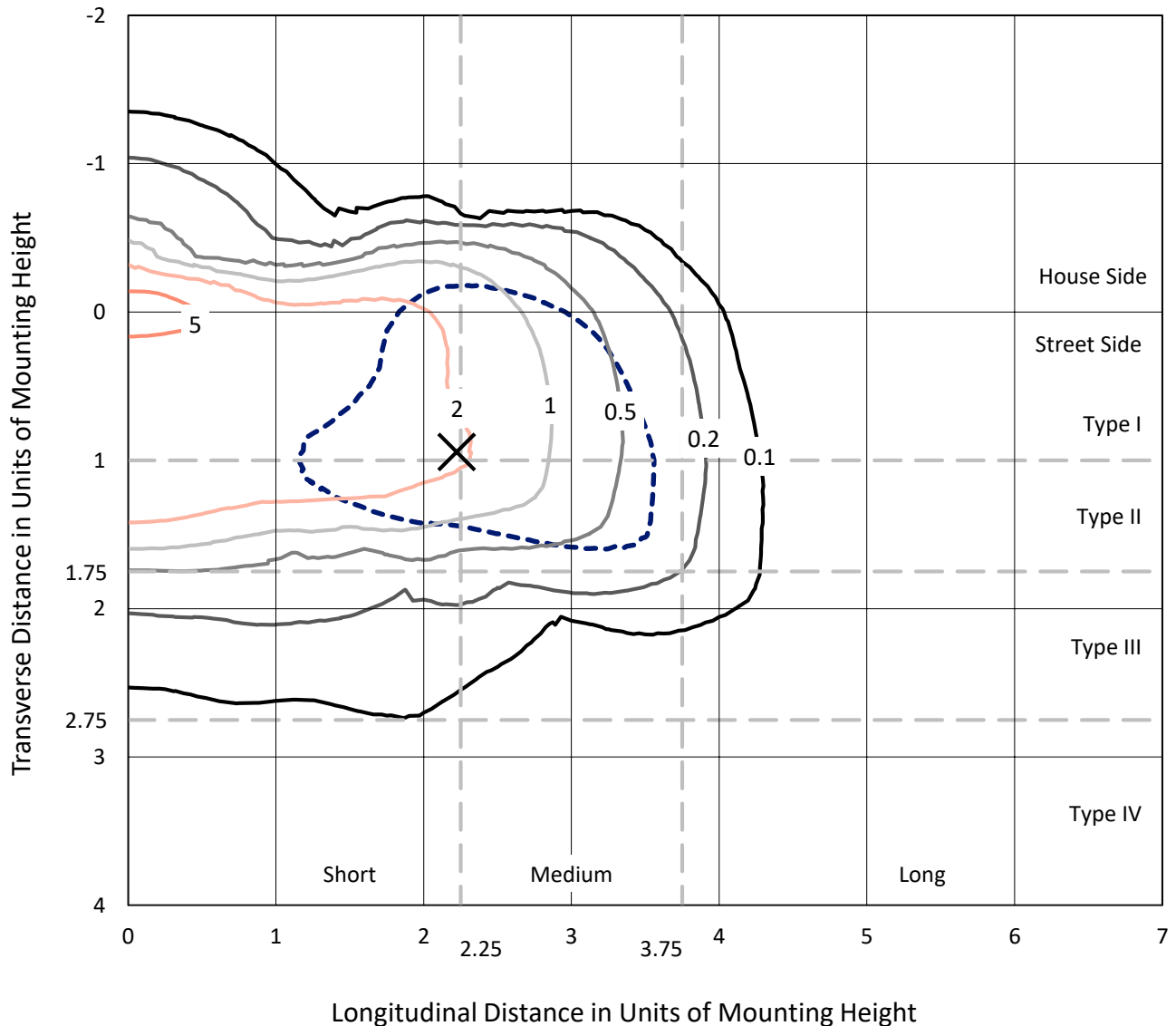
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

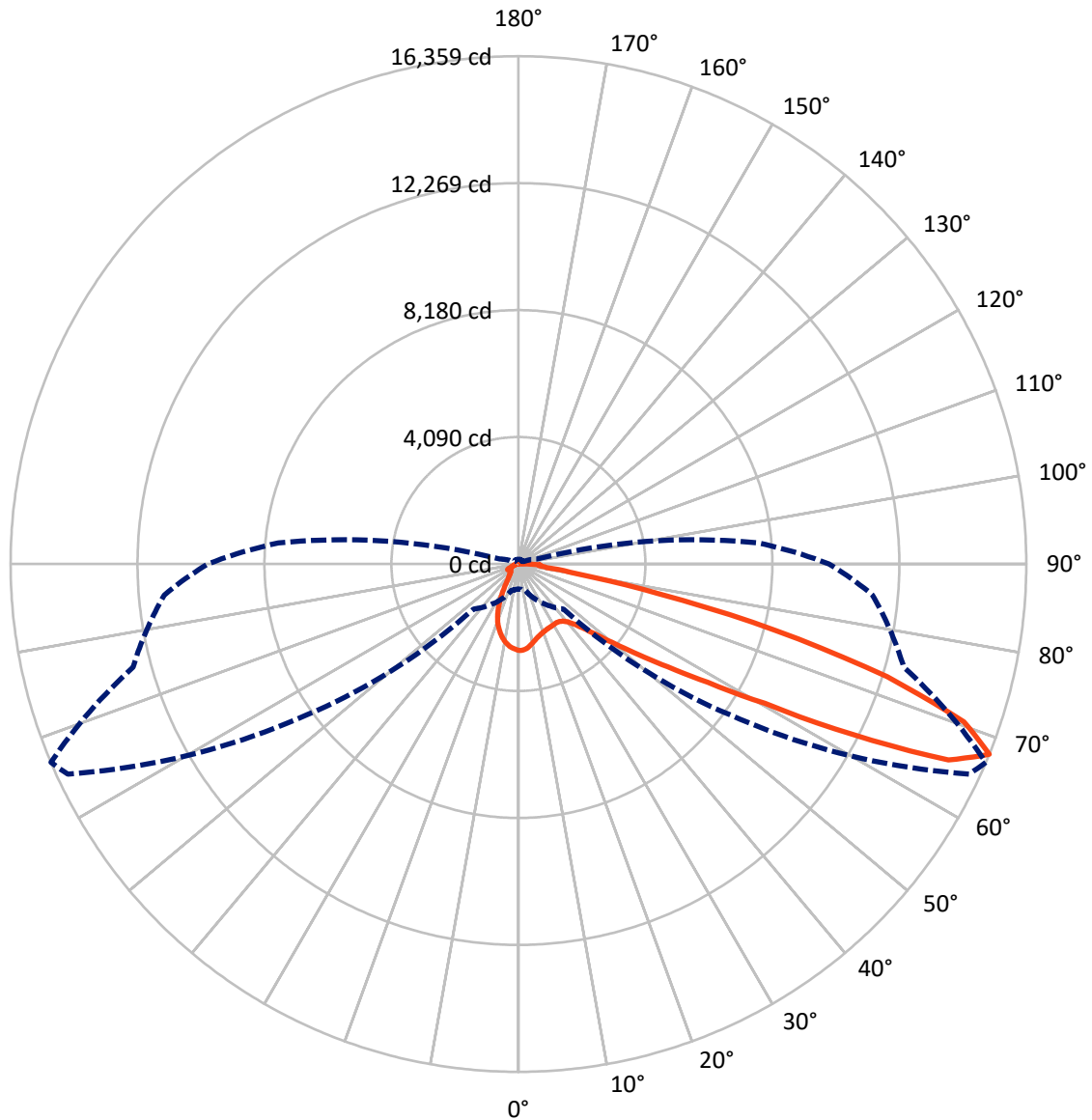


Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Semi-Cutoff

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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
House Side	Lumens	2139.2	0.0	2139.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10771.9	0.0	10771.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	12911.2	0.0	12911.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.8
10°-20°	549.8	4.3
20°-30°	745.2	5.8
30°-40°	1059.4	8.2
40°-50°	1772.4	13.7
50°-60°	2803.9	21.7
60°-70°	3571.9	27.7
70°-80°	1871.0	14.5
80°-90°	300.1	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°	12911.2	100.0
0°-180°	12911.2	100.0



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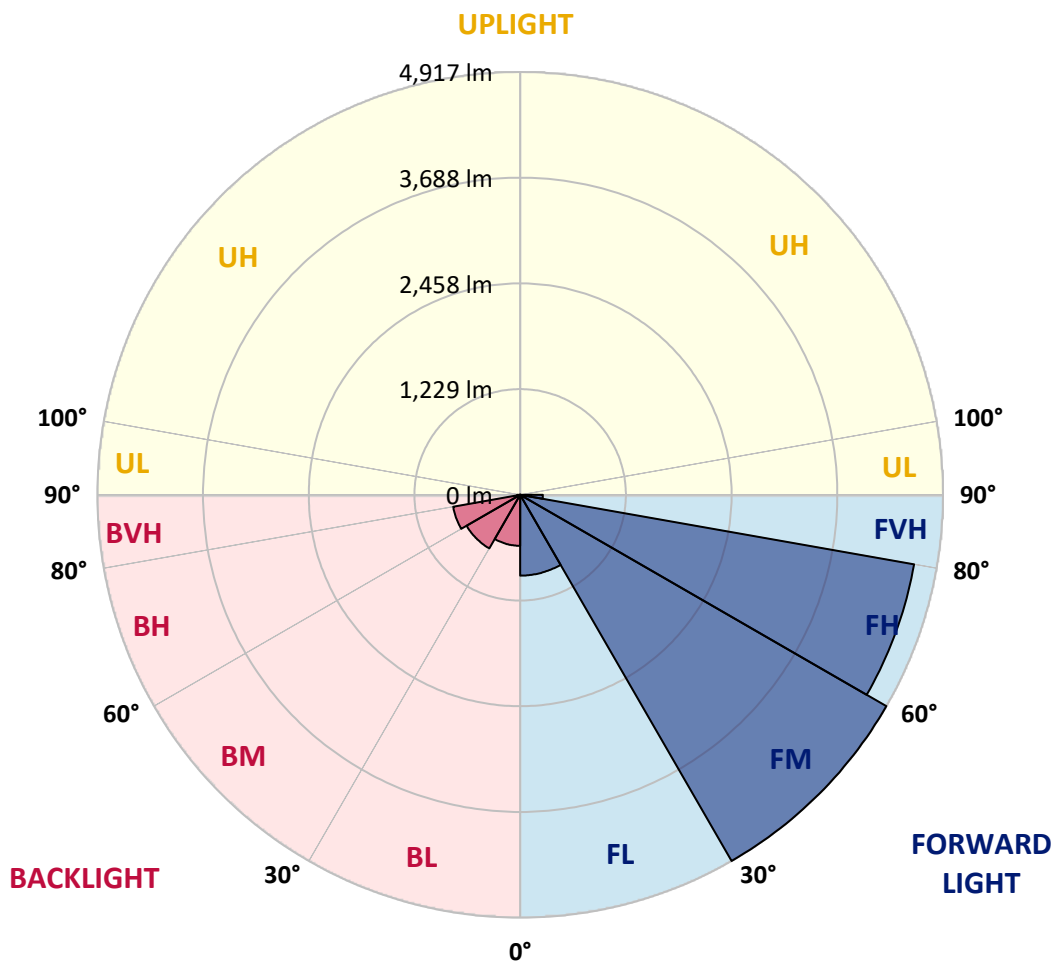
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.6	7.3			
FM (30°-60°)	4916.8	38.1			
FH (60°-80°)	4651.6	36.0			G2/5000
FVH (80°-90°)	263.9	2.0			G3/500
BL (0°-30°)	592.9	4.6	B2/1000		
BM (30°-60°)	718.8	5.6	B1/1000		
BH (60°-80°)	791.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	36.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9
2.5°	2670.3	2674.7	2688.8	2697.7	2737.8	2755.0	2767.1	2779.2	2781.0	2786.7	2781.0
5°	2390.1	2399.7	2425.8	2455.0	2532.7	2594.0	2658.2	2725.0	2737.2	2780.4	2792.5
7.5°	2173.0	2170.6	2192.2	2227.1	2306.8	2391.4	2504.1	2637.2	2663.3	2760.8	2807.9
10°	2014.5	2012.5	2035.5	2071.8	2147.6	2227.8	2355.1	2537.2	2574.1	2729.6	2822.5
12.5°	1897.4	1898.0	1920.9	1960.9	2038.0	2119.0	2248.1	2440.5	2487.7	2693.2	2837.8
15°	1819.7	1824.7	1843.2	1886.0	1960.9	2041.8	2168.6	2367.8	2420.7	2664.7	2855.0
17.5°	1793.6	1801.8	1808.2	1839.4	1903.8	1984.5	2108.7	2314.4	2370.4	2644.8	2870.2
20°	1817.7	1827.4	1815.3	1826.0	1866.8	1938.2	2061.6	2272.4	2329.6	2622.5	2872.1
22.5°	1921.6	1930.5	1894.8	1863.6	1861.0	1904.4	2022.8	2239.3	2298.5	2606.0	2872.8
25°	2104.4	2110.1	2050.1	1977.6	1906.9	1892.3	1995.4	2216.4	2279.3	2591.3	2860.6
27.5°	2328.5	2332.9	2264.1	2157.1	2015.2	1920.9	1985.9	2203.0	2268.5	2578.6	2840.3
30°	2600.9	2621.9	2529.6	2394.6	2187.7	2005.6	2004.9	2196.0	2256.4	2557.0	2800.2
32.5°	2879.7	2888.7	2825.0	2688.1	2420.1	2154.6	2058.5	2201.0	2253.3	2530.9	2749.3
35°	3162.5	3174.0	3132.6	3022.4	2737.8	2373.0	2162.9	2231.0	2273.0	2521.9	2713.6
37.5°	3528.5	3543.9	3486.6	3359.1	3124.3	2668.9	2336.7	2306.1	2333.4	2547.4	2702.7
40°	4107.3	4100.3	3932.9	3743.1	3547.0	3047.9	2585.0	2433.4	2449.4	2629.6	2735.9
42.5°	4780.9	4763.7	4475.4	4177.3	4011.8	3506.2	2913.5	2654.4	2651.1	2791.2	2852.4
45°	5318.3	5304.3	5044.5	4677.2	4544.7	4028.4	3338.2	2983.6	2960.1	3047.9	3067.6
47.5°	5609.3	5609.9	5460.3	5160.5	5157.2	4691.8	3883.8	3459.8	3419.0	3460.5	3439.5
50°	5507.4	5520.8	5504.9	5409.3	5716.2	5561.6	4596.3	4123.9	4041.7	4082.5	4001.6
52.5°	5014.6	5031.8	5126.0	5272.6	5951.3	6612.7	5643.0	4949.0	4853.6	4838.9	4749.1
55°	4141.0	4162.1	4354.3	4752.3	5755.8	7318.8	7294.5	6000.8	5848.6	5710.6	5672.3
57.5°	2854.3	2889.4	3198.8	3789.6	5123.5	7532.2	9261.4	7500.3	7190.8	6708.2	6717.2
60°	1609.0	1649.7	2014.5	2551.2	3847.6	7300.3	10757.5	9771.4	9118.1	7876.6	7942.8
62.5°	1023.2	1067.1	1344.1	1772.5	2308.6	6052.4	11370.7	12928.7	12099.2	9316.7	9381.8
65°	828.3	847.5	978.0	1463.1	1676.5	3646.3	10905.2	15529.7	15220.3	11144.8	10841.7
67.5°	808.6	815.0	882.5	1228.2	1607.6	2049.4	8698.5	16016.1	16359.3	12851.7	11449.8
70°	799.0	821.3	994.5	1172.2	1539.6	1728.6	5227.3	14682.8	15224.6	13298.1	10640.4
72.5°	387.8	386.4	500.4	1060.2	1734.4	1793.0	2685.6	11880.1	12423.9	11521.1	8743.7
75°	312.6	285.8	273.1	388.4	1667.6	1851.5	1711.4	8174.6	8568.0	7724.4	5375.0
77.5°	296.7	264.9	242.5	243.2	704.8	1963.6	1449.8	4524.3	4638.9	3489.0	1472.7
80°	245.8	216.5	200.6	226.0	341.2	1870.0	1567.6	2047.6	1878.9	857.0	490.2
82.5°	170.7	155.3	150.9	189.8	273.1	1332.6	1822.9	1100.2	922.5	429.2	302.4
85°	108.8	93.0	103.1	138.2	212.6	615.0	1877.6	857.5	681.9	272.5	170.7
87.5°	50.3	40.8	51.0	76.4	138.8	212.1	1786.6	963.3	702.3	143.9	107.6
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°	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9	2784.9
2.5°	2786.2	2774.1	2764.6	2746.7	2727.0	2707.9	2690.7	2668.9	2662.6	2656.9	2665.8
5°	2795.1	2783.0	2748.0	2693.2	2632.7	2576.2	2519.4	2471.0	2441.1	2424.6	2434.1
7.5°	2808.5	2791.2	2718.7	2618.1	2509.2	2409.9	2307.3	2225.3	2164.8	2136.1	2144.4
10°	2820.5	2787.4	2668.9	2518.1	2358.9	2211.3	2049.4	1915.9	1816.6	1764.3	1777.0
12.5°	2825.7	2772.8	2599.6	2393.4	2175.0	1958.5	1720.4	1520.5	1377.8	1325.7	1314.8
15°	2830.8	2756.3	2523.3	2251.4	1952.8	1646.5	1312.9	1073.5	955.0	928.9	923.2
17.5°	2832.0	2727.6	2436.6	2097.2	1692.3	1275.3	897.8	745.5	746.2	788.2	793.3
20°	2818.7	2684.9	2331.6	1905.6	1380.4	881.8	616.3	590.2	686.3	791.4	804.1
22.5°	2788.1	2628.2	2212.5	1682.1	1023.2	580.7	476.9	505.6	629.7	758.3	772.9
25°	2749.3	2559.5	2071.8	1423.0	677.4	415.0	399.9	434.9	518.9	604.9	613.2
27.5°	2696.4	2478.0	1913.9	1126.4	440.0	341.9	352.2	375.7	410.0	448.2	452.0
30°	2628.2	2380.6	1745.2	821.3	332.3	307.6	322.2	334.9	349.5	371.2	373.1
32.5°	2550.0	2287.1	1572.0	567.3	294.8	289.6	301.1	307.6	319.0	332.3	333.7
35°	2484.3	2197.9	1392.4	401.1	278.8	276.3	284.0	286.5	297.3	311.9	313.2
37.5°	2446.9	2125.3	1207.2	323.4	268.0	264.2	268.7	268.7	284.0	305.6	308.7
40°	2449.4	2085.2	1021.9	292.3	259.2	254.0	254.7	254.7	274.5	297.9	299.9
42.5°	2518.8	2095.4	857.5	280.1	252.2	246.4	243.2	245.2	261.6	277.0	278.3
45°	2681.8	2167.2	703.5	272.5	245.2	243.2	236.2	235.6	241.9	249.0	249.0
47.5°	2949.1	2309.3	599.2	267.4	239.4	238.7	230.5	222.3	221.6	224.1	224.1
50°	3384.1	2553.8	529.2	261.6	235.6	230.5	220.9	208.2	203.8	205.6	205.6
52.5°	4036.0	2989.9	502.4	254.0	227.3	219.1	208.2	195.5	191.6	192.3	192.3
55°	4891.1	3659.7	498.6	245.2	218.4	205.0	196.1	186.5	182.1	183.3	183.3
57.5°	5935.9	4586.1	566.6	231.1	206.3	190.9	186.0	179.5	176.4	178.3	177.6
60°	7206.0	5798.4	840.4	216.5	194.2	178.3	178.3	173.1	170.7	172.5	171.9
62.5°	8669.2	7190.8	1181.7	205.6	181.5	168.0	170.7	168.0	165.5	166.8	166.2
65°	9966.8	8098.2	1106.6	197.3	168.7	158.5	163.1	161.7	159.8	161.0	160.5
67.5°	10004.5	7762.0	621.4	188.5	156.7	149.0	155.3	154.7	153.4	154.7	154.0
70°	8928.3	6554.1	350.1	171.9	143.9	137.5	146.4	145.8	144.5	147.1	146.4
72.5°	7153.3	4756.2	256.0	151.6	131.1	125.4	135.6	134.9	134.9	138.8	136.9
75°	4116.3	2447.4	204.5	129.9	117.8	113.3	122.3	122.9	124.1	129.3	125.4
77.5°	1173.5	762.7	166.8	110.2	101.3	99.3	108.2	109.5	110.2	116.0	110.8
80°	436.2	351.5	137.5	92.4	82.8	83.4	91.7	93.6	94.2	100.0	93.6
82.5°	278.3	231.7	111.5	71.3	64.9	64.4	74.6	77.0	77.0	77.7	73.9
85°	162.4	138.8	84.0	51.6	45.9	43.9	55.4	59.9	57.9	56.7	54.1
87.5°	108.8	95.5	51.6	28.6	24.8	23.6	32.4	35.6	34.4	32.4	30.6
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)