

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: P199960

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199960
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
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 11770.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

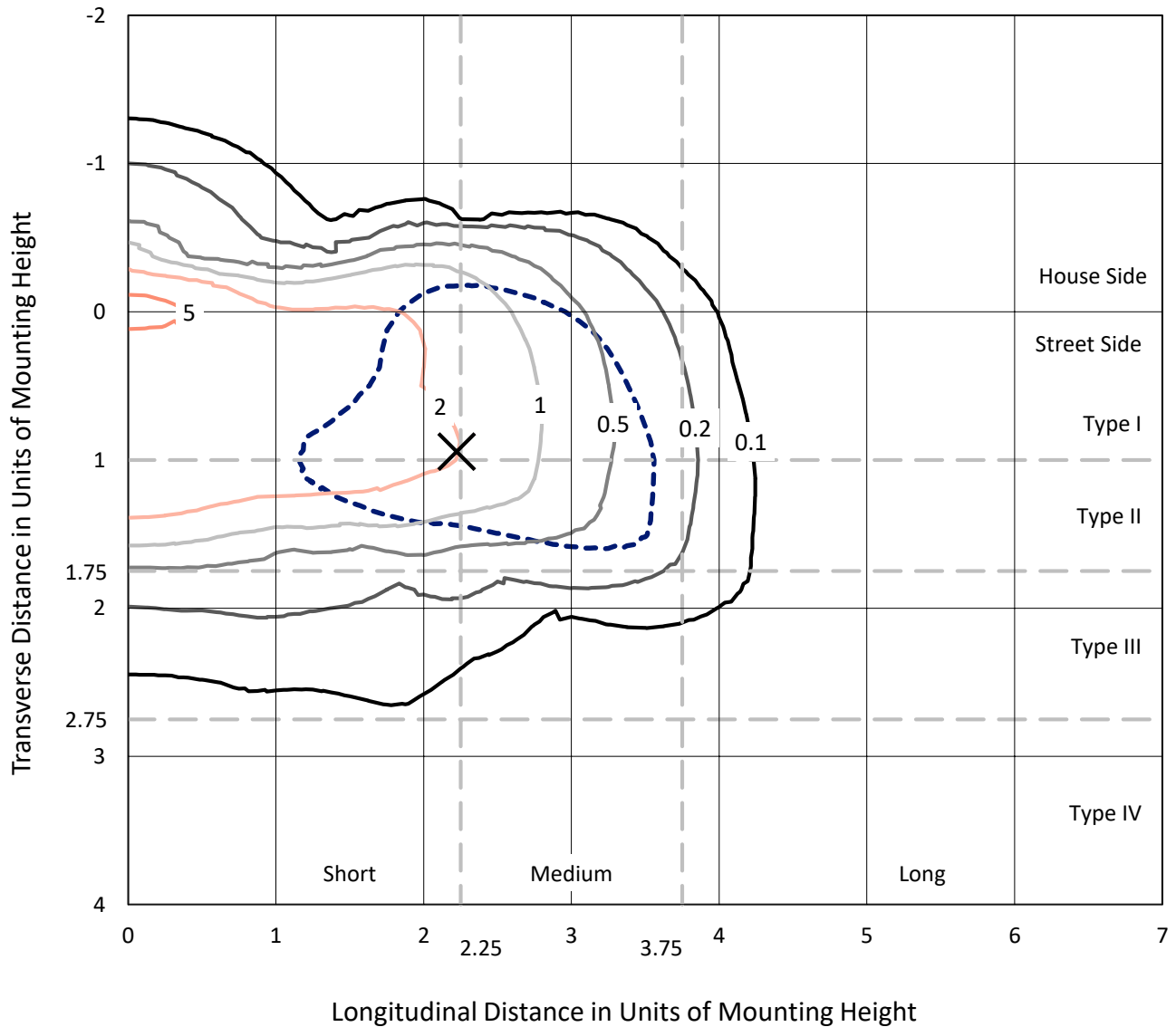
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

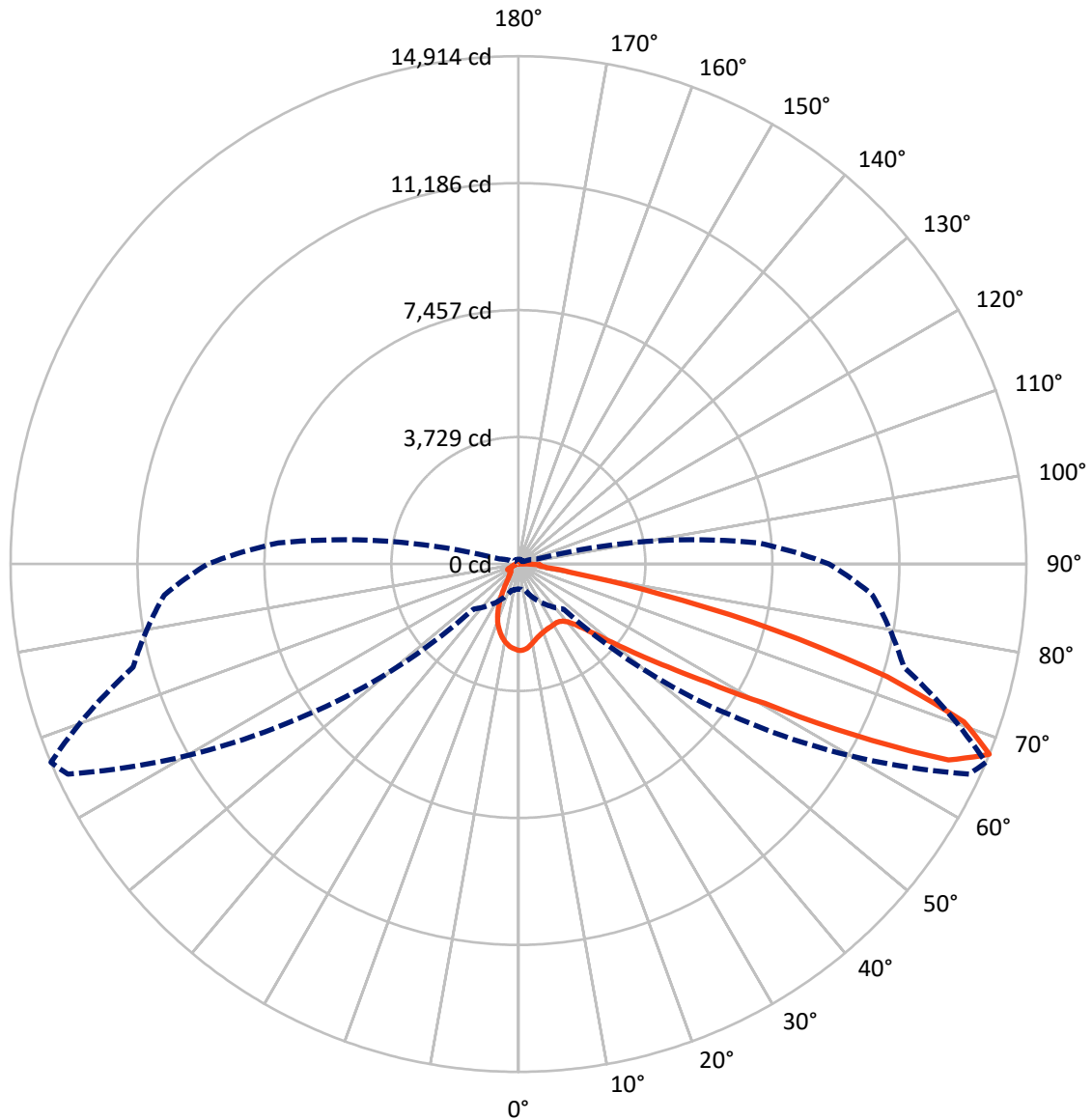
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	1950.3	0.0	1950.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9820.3	0.0	9820.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	11770.5	0.0	11770.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	1.8
10°-20°	501.2	4.3
20°-30°	679.4	5.8
30°-40°	965.8	8.2
40°-50°	1615.8	13.7
50°-60°	2556.2	21.7
60°-70°	3256.3	27.7
70°-80°	1705.7	14.5
80°-90°	273.6	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°	11770.5	100.0
0°-180°	11770.5	100.0

Coefficient of Utilization



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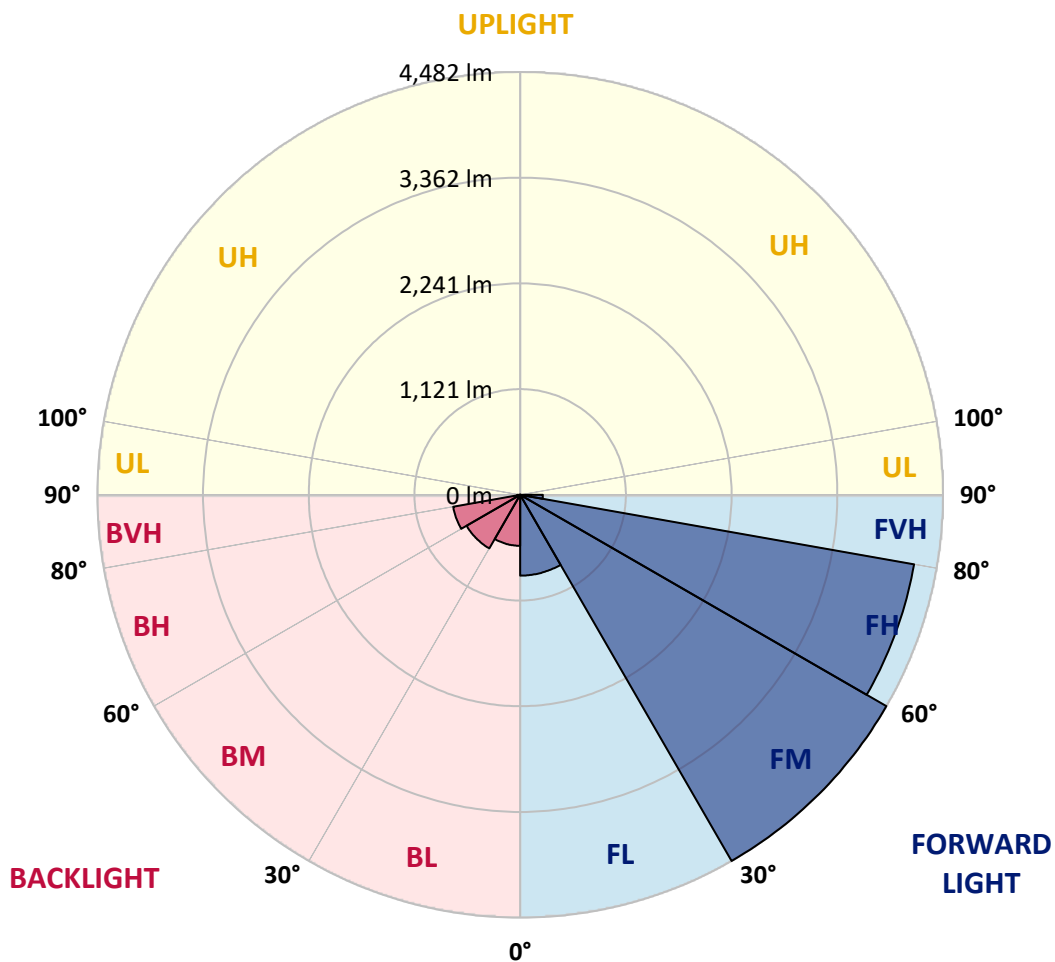
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.6	7.3			
FM	(30°-60°)	4482.4	38.1			
FH	(60°-80°)	4240.7	36.0			G2/5000
FVH	(80°-90°)	240.5	2.0			G3/500
BL	(0°-30°)	540.6	4.6	B2/1000		
BM	(30°-60°)	655.3	5.6	B1/1000		
BH	(60°-80°)	721.3	6.1	B2/1000		G2/1000
BVH	(80°-90°)	33.0	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°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2434.4	2438.4	2451.2	2459.3	2495.9	2511.6	2522.6	2533.6	2535.4	2540.6	2535.4
5°	2178.9	2187.7	2211.5	2238.1	2308.9	2364.7	2423.4	2484.3	2495.4	2534.9	2545.8
7.5°	1981.1	1978.6	1998.5	2030.4	2102.9	2180.2	2282.9	2404.2	2428.0	2516.8	2559.7
10°	1836.5	1834.8	1855.7	1888.8	1957.8	2031.0	2147.1	2313.1	2346.8	2488.4	2573.2
12.5°	1729.7	1730.3	1751.2	1787.8	1858.0	1931.7	2049.6	2224.8	2267.7	2455.3	2587.0
15°	1658.9	1663.6	1680.4	1719.3	1787.8	1861.4	1977.0	2158.6	2206.8	2429.2	2602.7
17.5°	1635.1	1642.7	1648.5	1676.9	1735.6	1809.3	1922.4	2109.9	2161.0	2411.2	2616.6
20°	1657.1	1665.8	1654.8	1664.7	1701.8	1766.8	1879.5	2071.5	2123.9	2390.8	2618.4
22.5°	1751.8	1759.9	1727.4	1699.0	1696.7	1736.1	1844.1	2041.4	2095.4	2375.8	2619.0
25°	1918.4	1923.6	1869.0	1802.9	1738.5	1725.1	1819.1	2020.5	2078.0	2362.4	2607.9
27.5°	2122.7	2126.7	2064.0	1966.5	1837.0	1751.2	1810.4	2008.3	2068.2	2350.8	2589.3
30°	2371.2	2390.3	2306.1	2183.1	1994.4	1828.5	1827.8	2001.9	2057.2	2331.0	2552.9
32.5°	2625.4	2633.4	2575.5	2450.6	2206.3	1964.3	1876.5	2006.5	2054.2	2307.2	2506.4
35°	2883.1	2893.5	2855.8	2755.4	2495.9	2163.4	1971.8	2033.9	2072.2	2299.2	2473.8
37.5°	3216.8	3230.8	3178.6	3062.4	2848.3	2433.2	2130.2	2102.3	2127.3	2322.5	2464.1
40°	3744.5	3738.1	3585.5	3412.3	3233.6	2778.6	2356.6	2218.5	2232.9	2397.2	2494.2
42.5°	4358.6	4342.9	4080.0	3808.3	3657.4	3196.5	2656.1	2419.9	2417.0	2544.6	2600.4
45°	4848.5	4835.7	4598.8	4264.0	4143.2	3672.5	3043.3	2720.0	2698.4	2778.6	2796.6
47.5°	5113.8	5114.3	4977.9	4704.4	4701.7	4277.3	3540.8	3154.1	3116.9	3154.8	3135.5
50°	5020.9	5033.0	5018.5	4931.4	5211.2	5070.1	4190.2	3759.5	3684.7	3721.8	3648.0
52.5°	4571.6	4587.2	4673.1	4806.7	5425.4	6028.5	5144.5	4511.8	4424.8	4411.4	4329.5
55°	3775.2	3794.3	3969.7	4332.4	5247.1	6672.3	6650.2	5470.7	5332.0	5205.9	5171.2
57.5°	2602.1	2634.0	2916.1	3454.8	4670.9	6866.6	8443.1	6837.7	6555.5	6115.6	6123.7
60°	1466.8	1504.0	1836.5	2325.8	3507.7	6655.4	9807.2	8908.1	8312.6	7180.7	7241.0
62.5°	932.7	972.9	1225.4	1616.0	2104.7	5517.7	10366.2	11786.6	11030.2	8493.7	8552.9
65°	755.2	772.6	891.5	1333.8	1528.3	3324.2	9941.8	14157.6	13875.6	10160.1	9883.8
67.5°	737.2	743.0	804.4	1119.7	1465.6	1868.5	7930.0	14601.1	14914.0	11716.3	10438.2
70°	728.4	748.8	906.7	1068.5	1403.6	1575.9	4765.5	13385.7	13879.6	12123.2	9700.4
72.5°	353.5	352.4	456.2	966.4	1581.1	1634.5	2448.3	10830.6	11326.3	10503.2	7971.2
75°	284.9	260.6	249.0	354.1	1520.3	1687.9	1560.2	7452.3	7811.1	7042.0	4900.2
77.5°	270.5	241.5	221.1	221.7	642.6	1790.1	1321.7	4124.6	4229.1	3180.9	1342.6
80°	224.1	197.3	182.8	206.1	311.2	1704.8	1429.1	1866.7	1712.8	781.3	447.0
82.5°	155.5	141.6	137.5	172.9	249.0	1214.9	1661.9	1003.0	841.1	391.2	275.7
85°	99.2	84.7	94.1	125.9	193.8	560.7	1711.8	781.9	621.6	248.4	155.5
87.5°	45.9	37.1	46.4	69.7	126.5	193.3	1628.7	878.2	640.3	131.2	98.2
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°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2540.1	2529.1	2520.3	2504.0	2486.0	2468.6	2453.0	2433.2	2427.4	2422.2	2430.4
5°	2548.2	2537.1	2505.2	2455.3	2400.1	2348.5	2296.8	2252.7	2225.4	2210.4	2219.0
7.5°	2560.4	2544.6	2478.5	2386.8	2287.6	2196.9	2103.6	2028.6	1973.5	1947.4	1954.9
10°	2571.4	2541.2	2433.2	2295.6	2150.5	2015.9	1868.5	1746.5	1656.1	1608.4	1620.0
12.5°	2576.0	2527.8	2370.0	2181.9	1982.8	1785.4	1568.4	1386.1	1256.1	1208.5	1198.6
15°	2580.7	2512.8	2300.4	2052.4	1780.3	1501.0	1196.8	978.6	870.7	846.9	841.7
17.5°	2581.8	2486.6	2221.3	1912.0	1542.8	1162.6	818.5	679.7	680.2	718.6	723.2
20°	2569.7	2447.7	2125.6	1737.2	1258.4	803.9	561.9	538.1	625.7	721.5	733.1
22.5°	2541.8	2396.0	2017.0	1533.6	932.7	529.4	434.8	460.8	574.0	691.3	704.6
25°	2506.4	2333.3	1888.8	1297.4	617.7	378.5	364.5	396.4	473.1	551.4	559.0
27.5°	2458.3	2259.1	1744.9	1026.8	401.1	311.7	321.0	342.4	373.7	408.6	412.1
30°	2396.0	2170.3	1591.1	748.8	302.9	280.4	293.7	305.3	318.7	338.3	340.2
32.5°	2324.7	2085.0	1433.2	517.2	268.8	264.1	274.6	280.4	290.8	302.9	304.2
35°	2265.0	2003.7	1269.5	365.7	254.2	252.0	258.8	261.2	271.1	284.4	285.6
37.5°	2230.6	1937.5	1100.6	294.9	244.4	240.9	245.0	245.0	258.8	278.6	281.6
40°	2232.9	1901.0	931.7	266.4	236.2	231.6	232.1	232.1	250.2	271.6	273.3
42.5°	2296.2	1910.3	781.9	255.4	229.9	224.6	221.7	223.4	238.5	252.5	253.7
45°	2444.7	1975.9	641.4	248.4	223.4	221.7	215.3	214.8	220.6	226.9	226.9
47.5°	2688.7	2105.3	546.2	243.7	218.3	217.7	210.1	202.5	202.0	204.4	204.4
50°	3085.1	2328.2	482.4	238.5	214.8	210.1	201.4	189.8	185.7	187.5	187.5
52.5°	3679.5	2725.8	458.1	231.6	207.3	199.7	189.8	178.2	174.7	175.3	175.3
55°	4459.0	3336.4	454.5	223.4	199.1	187.0	178.7	170.1	166.0	167.1	167.1
57.5°	5411.5	4181.0	516.6	210.7	188.0	174.2	169.5	163.7	160.8	162.6	161.9
60°	6569.4	5286.1	766.2	197.3	177.0	162.6	162.6	157.9	155.5	157.4	156.7
62.5°	7903.4	6555.5	1077.3	187.5	165.4	153.3	155.5	153.3	150.9	152.1	151.6
65°	9086.3	7382.6	1008.8	180.0	153.8	144.5	148.6	147.4	145.7	146.9	146.3
67.5°	9120.5	7076.1	566.5	171.9	142.8	135.8	141.6	141.1	139.9	141.1	140.5
70°	8139.6	5975.1	319.2	156.7	131.2	125.4	133.6	133.0	131.7	134.1	133.6
72.5°	6521.3	4336.0	233.4	138.1	119.5	114.4	123.7	123.0	123.0	126.5	124.8
75°	3752.6	2231.2	186.3	118.4	107.4	103.4	111.5	112.0	113.2	117.8	114.4
77.5°	1069.7	695.3	152.1	100.4	92.4	90.5	98.7	99.9	100.4	105.7	100.9
80°	397.6	320.4	125.4	84.1	75.5	76.1	83.6	85.3	85.9	91.1	85.3
82.5°	253.7	211.3	101.6	65.0	59.2	58.7	68.0	70.3	70.3	70.8	67.3
85°	148.0	126.5	76.6	47.0	41.8	40.1	50.5	54.5	52.8	51.7	49.3
87.5°	99.2	87.1	47.0	26.1	22.6	21.6	29.6	32.6	31.3	29.6	27.9
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)