

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: P191071

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191071
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: GLEON-AF-03-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 11998.2 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

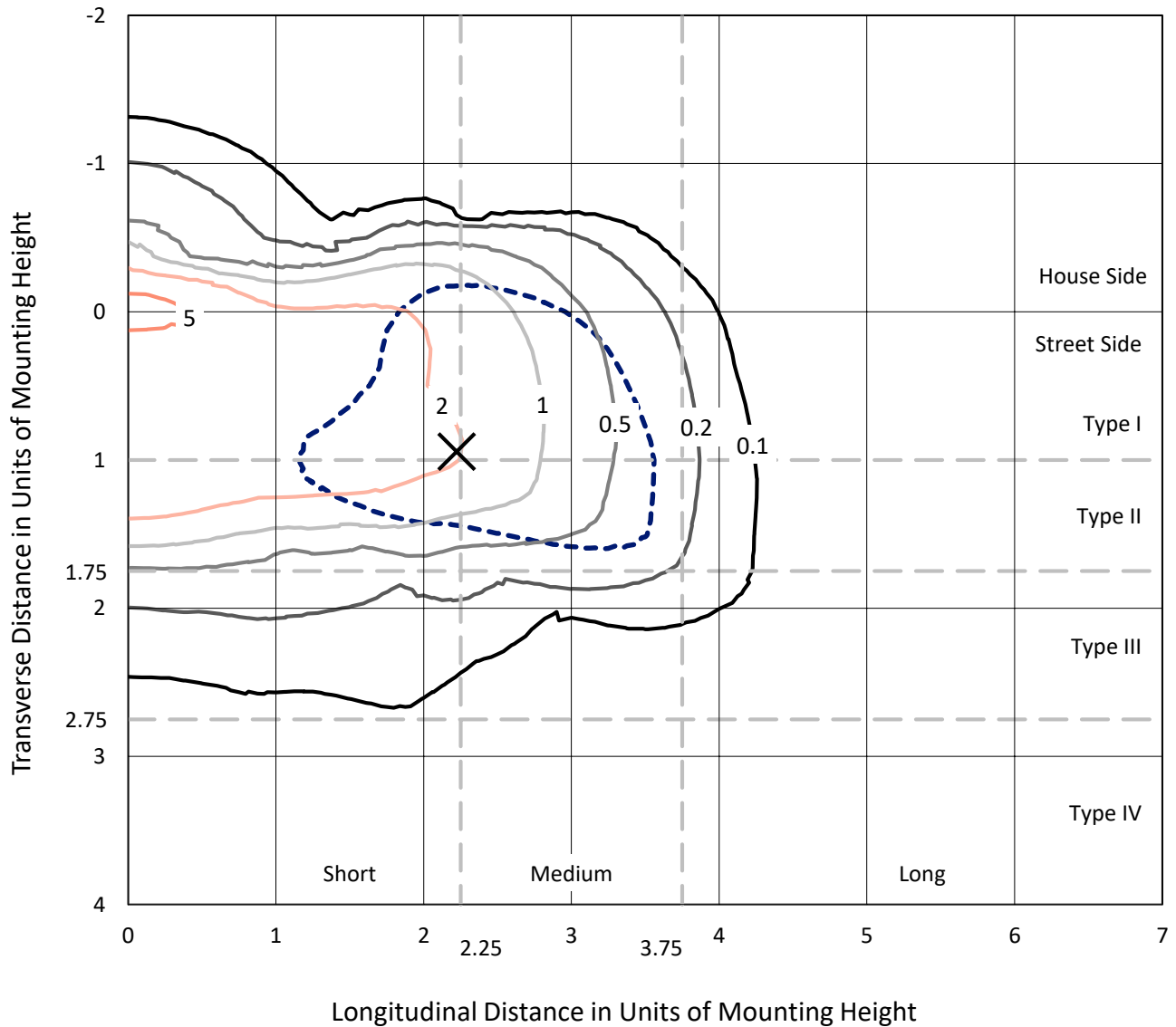
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

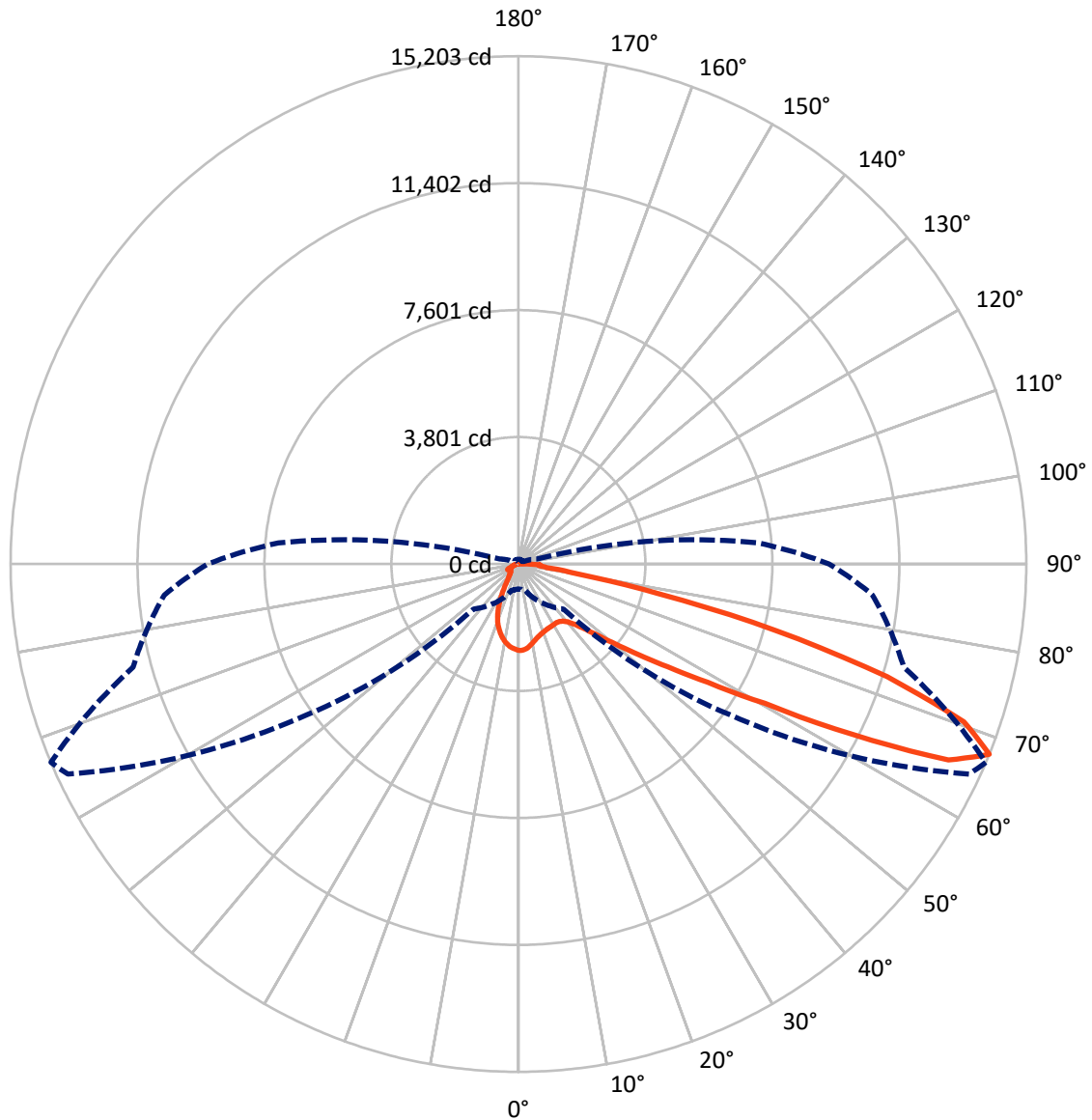
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type 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	1988.0	0.0	1988.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10010.2	0.0	10010.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	11998.2	0.0	11998.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	1.8
10°-20°	510.9	4.3
20°-30°	692.5	5.8
30°-40°	984.5	8.2
40°-50°	1647.1	13.7
50°-60°	2605.6	21.7
60°-70°	3319.3	27.7
70°-80°	1738.7	14.5
80°-90°	278.8	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°	11998.2	100.0
0°-180°	11998.2	100.0



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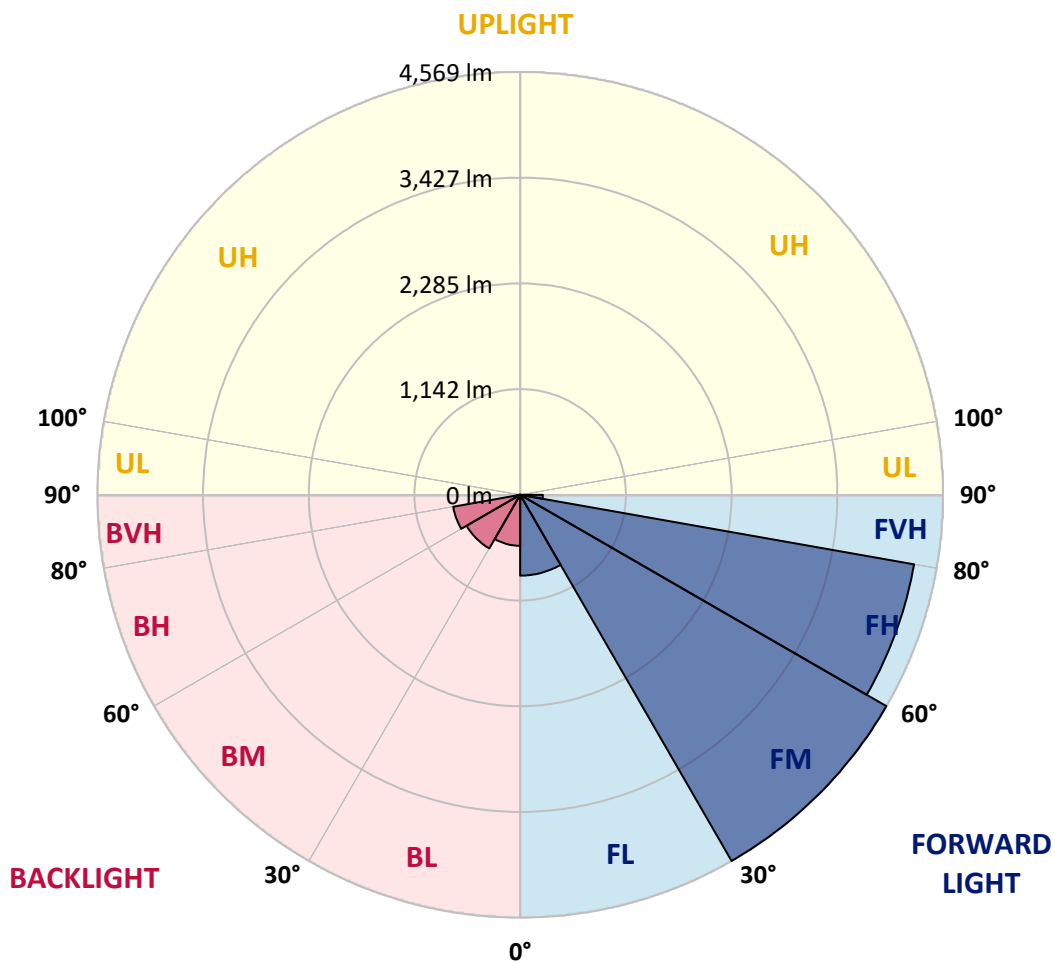
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.2	7.3			
FM	(30°-60°)	4569.2	38.1			
FH	(60°-80°)	4322.7	36.0			G2/5000
FVH	(80°-90°)	245.2	2.0			G3/500
BL	(0°-30°)	551.0	4.6	B2/1000		
BM	(30°-60°)	668.0	5.6	B1/1000		
BH	(60°-80°)	735.3	6.1	B2/1000		G2/1000
BVH	(80°-90°)	33.7	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°	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0
2.5°	2481.5	2485.7	2498.7	2506.9	2544.2	2560.1	2571.4	2582.6	2584.4	2589.8	2584.4
5°	2221.1	2230.0	2254.3	2281.5	2353.7	2410.5	2470.2	2532.3	2543.6	2583.9	2595.1
7.5°	2019.4	2017.1	2037.1	2069.6	2143.6	2222.4	2327.0	2450.7	2474.9	2565.5	2609.2
10°	1872.1	1870.3	1891.5	1925.3	1995.7	2070.2	2188.6	2357.8	2392.2	2536.5	2622.8
12.5°	1763.2	1763.8	1785.0	1822.4	1894.0	1969.1	2089.2	2267.9	2311.7	2502.8	2637.1
15°	1691.0	1695.7	1712.9	1752.5	1822.4	1897.5	2015.2	2200.5	2249.6	2476.2	2653.0
17.5°	1666.7	1674.5	1680.4	1709.4	1769.1	1844.3	1959.7	2150.8	2202.8	2457.8	2667.2
20°	1689.2	1698.1	1686.8	1696.9	1734.8	1801.0	1915.9	2111.7	2165.0	2437.1	2669.1
22.5°	1785.7	1793.9	1760.8	1731.9	1729.5	1769.7	1879.8	2080.9	2135.9	2421.7	2669.6
25°	1955.5	1960.8	1905.1	1837.7	1772.1	1758.5	1854.3	2059.6	2118.2	2408.1	2658.3
27.5°	2163.7	2167.9	2104.0	2004.6	1872.6	1785.0	1845.4	2047.2	2108.1	2396.3	2639.4
30°	2417.0	2436.5	2350.7	2225.3	2033.0	1863.8	1863.2	2040.7	2096.8	2376.1	2602.2
32.5°	2676.1	2684.4	2625.3	2498.0	2249.0	2002.2	1912.9	2045.4	2094.0	2351.9	2554.8
35°	2938.8	2949.5	2911.0	2808.7	2544.2	2205.2	2009.9	2073.2	2112.3	2343.6	2521.7
37.5°	3279.1	3293.3	3240.0	3121.6	2903.3	2480.2	2171.4	2143.1	2168.5	2367.3	2511.7
40°	3816.9	3810.4	3654.8	3478.4	3296.3	2832.3	2402.2	2261.3	2276.2	2443.6	2542.4
42.5°	4442.9	4426.9	4158.9	3882.0	3728.1	3258.3	2707.5	2466.6	2463.8	2593.9	2650.7
45°	4942.3	4929.2	4687.9	4346.4	4223.4	3743.5	3102.1	2772.6	2750.7	2832.3	2850.7
47.5°	5212.7	5213.3	5074.1	4795.5	4792.5	4360.0	3609.2	3215.1	3177.3	3215.7	3196.2
50°	5118.0	5130.4	5115.6	5026.9	5312.1	5168.3	4271.3	3832.3	3756.0	3793.8	3718.6
52.5°	4660.1	4676.0	4763.6	4899.6	5530.4	6145.2	5244.0	4599.1	4510.3	4496.7	4413.3
55°	3848.2	3867.8	4046.5	4416.3	5348.7	6801.3	6778.8	5576.5	5435.1	5306.8	5271.3
57.5°	2652.5	2685.0	2972.6	3521.6	4761.2	6999.5	8606.5	6969.9	6682.3	6233.9	6242.1
60°	1495.1	1533.0	1872.1	2370.8	3575.5	6784.1	9996.9	9080.4	8473.3	7319.6	7381.1
62.5°	950.8	991.6	1249.0	1647.3	2145.4	5624.5	10566.7	12014.6	11243.6	8657.9	8718.3
65°	769.8	787.5	908.8	1359.7	1557.9	3388.5	10134.2	14431.5	14143.9	10356.7	10075.0
67.5°	751.5	757.4	820.1	1141.3	1494.0	1904.6	8083.5	14883.5	15202.5	11943.0	10640.0
70°	742.6	763.2	924.2	1089.2	1430.7	1606.4	4857.7	13644.6	14148.1	12357.7	9888.0
72.5°	360.3	359.2	465.0	985.1	1611.8	1666.2	2495.7	11040.0	11545.3	10706.3	8125.5
75°	290.5	265.7	253.8	360.9	1549.6	1720.6	1590.4	7596.5	7962.1	7178.1	4994.9
77.5°	275.7	246.1	225.5	226.0	655.0	1824.7	1347.2	4204.4	4310.9	3242.3	1368.5
80°	228.4	201.2	186.4	210.0	317.1	1737.8	1456.7	1902.8	1746.1	796.4	455.6
82.5°	158.6	144.3	140.2	176.4	253.8	1238.4	1694.0	1022.4	857.3	398.7	281.0
85°	101.2	86.3	95.9	128.4	197.6	571.5	1744.8	797.0	633.7	253.3	158.6
87.5°	46.7	37.8	47.4	71.0	129.0	197.0	1660.2	895.2	652.6	133.7	99.9
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°	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0	2588.0
2.5°	2589.2	2577.9	2569.0	2552.5	2534.2	2516.4	2500.4	2480.2	2474.4	2469.1	2477.4
5°	2597.5	2586.2	2553.7	2502.8	2446.6	2393.9	2341.2	2296.3	2268.5	2253.0	2261.9
7.5°	2609.9	2593.9	2526.5	2433.0	2331.8	2239.4	2144.2	2067.9	2011.7	1985.0	1992.7
10°	2621.1	2590.3	2480.2	2340.1	2192.2	2054.9	1904.6	1780.3	1688.1	1639.5	1651.3
12.5°	2625.8	2576.7	2415.8	2224.1	2021.1	1820.0	1598.7	1412.9	1280.4	1231.8	1221.8
15°	2630.6	2561.4	2344.8	2092.1	1814.6	1530.0	1220.1	997.6	887.5	863.3	857.9
17.5°	2631.7	2534.8	2264.3	1948.9	1572.7	1185.1	834.2	692.8	693.5	732.5	737.2
20°	2619.4	2495.1	2166.7	1770.8	1282.8	819.5	572.8	548.5	637.8	735.4	747.3
22.5°	2590.9	2442.4	2056.0	1563.2	950.8	539.6	443.1	469.7	585.1	704.7	718.3
25°	2554.8	2378.6	1925.3	1322.4	629.5	385.8	371.5	404.1	482.2	562.1	569.8
27.5°	2505.7	2302.8	1778.6	1046.7	408.9	317.7	327.2	349.1	381.0	416.5	420.1
30°	2442.4	2212.2	1621.8	763.2	308.8	285.8	299.4	311.2	324.8	344.9	346.7
32.5°	2369.7	2125.3	1460.9	527.2	273.9	269.2	279.9	285.8	296.5	308.8	310.1
35°	2308.7	2042.4	1294.0	372.8	259.1	256.8	263.9	266.3	276.3	289.9	291.1
37.5°	2273.8	1975.0	1121.8	300.5	249.1	245.5	249.7	249.7	263.9	284.0	286.9
40°	2276.2	1937.8	949.6	271.6	240.8	236.1	236.7	236.7	255.0	276.9	278.7
42.5°	2340.6	1947.2	797.0	260.3	234.3	228.9	226.0	227.8	243.2	257.4	258.6
45°	2492.1	2014.1	653.8	253.3	227.8	226.0	219.5	218.9	224.8	231.4	231.4
47.5°	2740.6	2146.0	556.8	248.5	222.5	221.9	214.2	206.5	205.9	208.3	208.3
50°	3144.8	2373.2	491.6	243.2	218.9	214.2	205.3	193.4	189.3	191.1	191.1
52.5°	3750.6	2778.5	466.9	236.1	211.2	203.6	193.4	181.7	178.1	178.7	178.7
55°	4545.3	3400.9	463.3	227.8	203.0	190.5	182.2	173.4	169.2	170.4	170.4
57.5°	5516.2	4261.8	526.6	214.8	191.7	177.5	172.8	166.8	163.9	165.7	165.1
60°	6696.5	5388.4	781.0	201.2	180.4	165.7	165.7	160.9	158.6	160.3	159.8
62.5°	8056.2	6682.3	1098.1	191.1	168.6	156.2	158.6	156.2	153.9	155.0	154.5
65°	9262.1	7525.5	1028.4	183.4	156.8	147.3	151.5	150.3	148.5	149.7	149.1
67.5°	9297.0	7213.1	577.5	175.1	145.6	138.4	144.3	143.8	142.6	143.8	143.2
70°	8297.1	6090.6	325.4	159.8	133.7	127.8	136.1	135.5	134.3	136.7	136.1
72.5°	6647.4	4419.8	237.8	140.9	121.9	116.5	126.0	125.4	125.4	129.0	127.3
75°	3825.1	2274.4	190.0	120.7	109.5	105.4	113.6	114.2	115.4	120.1	116.5
77.5°	1090.5	708.8	155.0	102.4	94.1	92.3	100.6	101.8	102.4	107.7	102.9
80°	405.3	326.6	127.8	85.8	76.9	77.5	85.2	87.0	87.6	92.9	87.0
82.5°	258.6	215.3	103.5	66.3	60.4	59.7	69.3	71.6	71.6	72.2	68.6
85°	150.9	129.0	78.1	48.0	42.6	40.8	51.5	55.6	53.8	52.7	50.3
87.5°	101.2	88.8	48.0	26.6	23.1	21.9	30.2	33.1	31.9	30.2	28.4
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)