

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: P191871

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191871
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-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 11729 lumens
Efficiency: N/A
Efficacy: 122.2 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

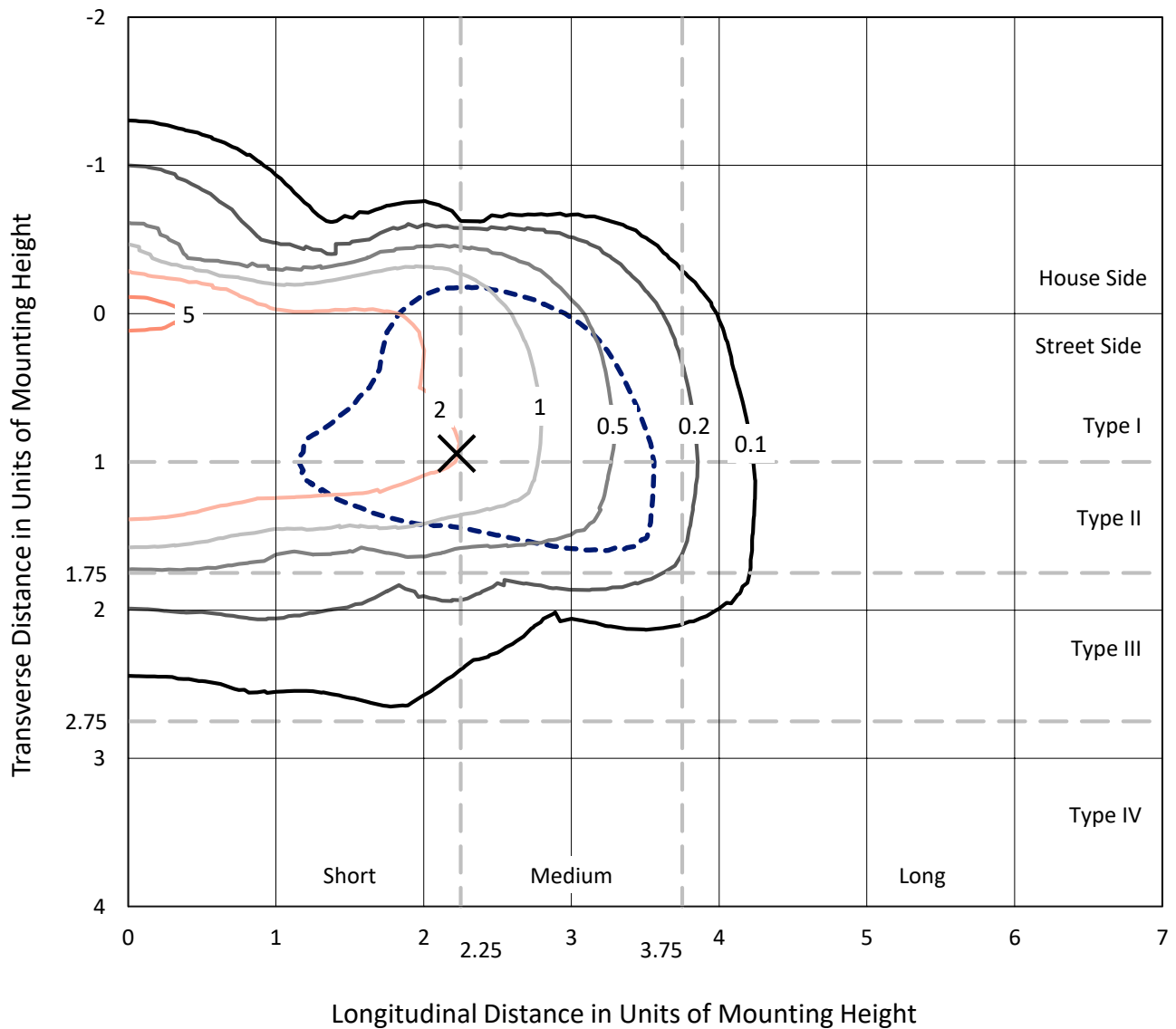
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191871
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7050-600

Iso-Footcandle Lines of Horizontal Illumination

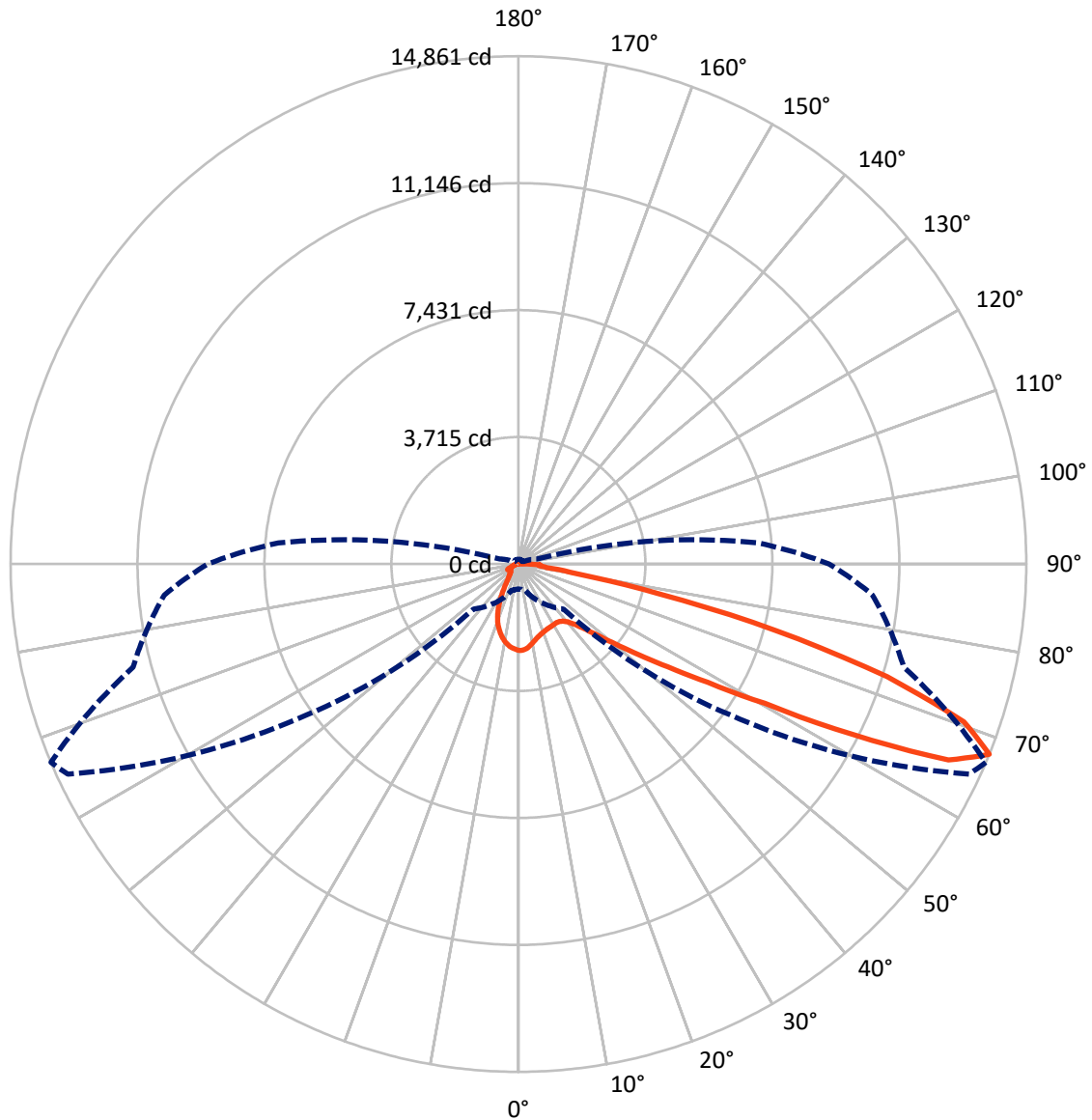
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191871
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191871

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.4	0.0	1943.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9785.6	0.0	9785.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	11729.0	0.0	11729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.8
10°-20°	499.4	4.3
20°-30°	677.0	5.8
30°-40°	962.4	8.2
40°-50°	1610.1	13.7
50°-60°	2547.2	21.7
60°-70°	3244.9	27.7
70°-80°	1699.6	14.5
80°-90°	272.6	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°	11729.0	100.0
0°-180°	11729.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191871

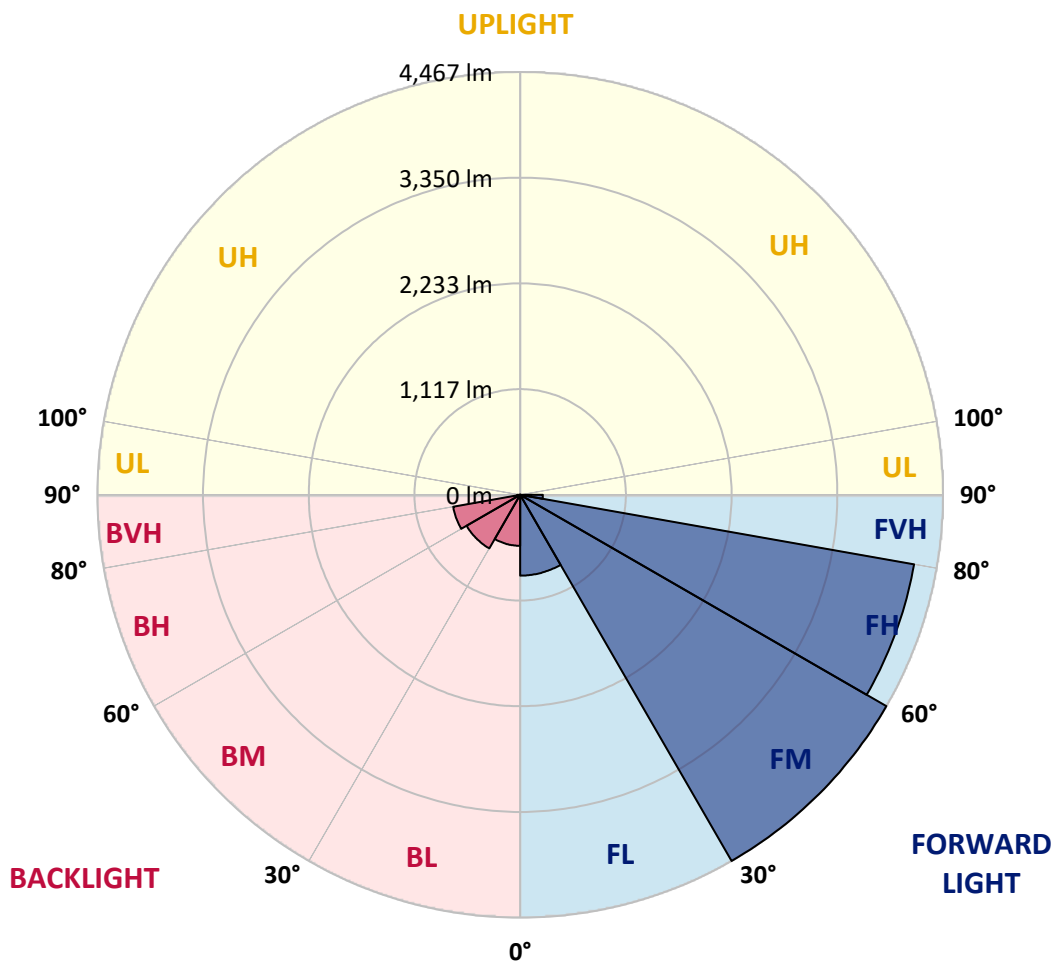
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.6	7.3			
FM (30°-60°)	4466.6	38.1			
FH (60°-80°)	4225.7	36.0			G2/5000
FVH (80°-90°)	239.7	2.0			G3/500
BL (0°-30°)	538.6	4.6	B2/1000		
BM (30°-60°)	653.0	5.6	B1/1000		
BH (60°-80°)	718.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	32.9	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





REPORT NUMBER: P191871

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9
2.5°	2425.8	2429.9	2442.6	2450.7	2487.1	2502.7	2513.7	2524.7	2526.4	2531.7	2526.4
5°	2171.3	2180.0	2203.7	2230.3	2300.9	2356.4	2414.8	2475.5	2486.5	2525.9	2536.9
7.5°	1974.1	1971.8	1991.4	2023.2	2095.5	2172.5	2274.8	2395.7	2419.4	2507.9	2550.7
10°	1830.1	1828.3	1849.1	1882.1	1950.9	2023.8	2139.5	2304.9	2338.5	2479.6	2564.0
12.5°	1723.6	1724.2	1745.0	1781.5	1851.5	1924.9	2042.3	2217.0	2259.8	2446.6	2577.9
15°	1653.1	1657.7	1674.5	1713.2	1781.5	1854.9	1970.0	2151.1	2199.1	2420.6	2593.5
17.5°	1629.3	1636.9	1642.7	1671.0	1729.4	1802.9	1915.7	2102.5	2153.4	2402.7	2607.4
20°	1651.3	1660.0	1649.0	1658.8	1695.9	1760.6	1872.9	2064.3	2116.4	2382.4	2609.2
22.5°	1745.6	1753.7	1721.3	1693.0	1690.7	1730.0	1837.6	2034.2	2088.0	2367.4	2609.7
25°	1911.6	1916.8	1862.4	1796.5	1732.3	1719.0	1812.7	2013.4	2070.7	2354.1	2598.7
27.5°	2115.2	2119.3	2056.8	1959.6	1830.6	1745.0	1804.0	2001.3	2060.8	2342.5	2580.2
30°	2362.8	2381.8	2298.0	2175.4	1987.4	1822.0	1821.4	1994.9	2049.8	2322.8	2543.8
32.5°	2616.1	2624.2	2566.4	2442.0	2198.5	1957.3	1870.0	1999.5	2047.0	2299.1	2497.5
35°	2872.9	2883.3	2845.7	2745.7	2487.1	2155.7	1964.8	2026.7	2064.9	2291.0	2465.1
37.5°	3205.5	3219.4	3167.3	3051.6	2838.2	2424.6	2122.7	2095.0	2119.8	2314.2	2455.3
40°	3731.3	3724.9	3572.8	3400.4	3222.3	2768.8	2348.3	2210.6	2225.1	2388.8	2485.4
42.5°	4343.2	4327.6	4065.6	3794.9	3644.5	3185.2	2646.8	2411.3	2408.5	2535.7	2591.2
45°	4831.4	4818.6	4582.7	4248.9	4128.6	3659.5	3032.5	2710.4	2689.0	2768.8	2786.7
47.5°	5095.7	5096.3	4960.3	4687.9	4685.0	4262.2	3528.2	3143.0	3106.0	3143.6	3124.5
50°	5003.2	5015.3	5000.8	4914.1	5192.9	5052.3	4175.5	3746.3	3671.7	3708.7	3635.2
52.5°	4555.5	4571.1	4656.7	4789.7	5406.3	6007.3	5126.3	4495.9	4409.1	4395.8	4314.3
55°	3761.9	3781.0	3955.7	4317.2	5228.7	6648.7	6626.7	5451.4	5313.2	5187.7	5153.0
57.5°	2593.0	2624.8	2905.9	3442.6	4654.4	6842.5	8413.4	6813.5	6532.4	6094.0	6102.1
60°	1461.6	1498.6	1830.1	2317.6	3495.3	6631.9	9772.6	8876.7	8283.2	7155.4	7215.5
62.5°	929.5	969.4	1221.0	1610.3	2097.3	5498.3	10329.6	11745.0	10991.3	8463.7	8522.7
65°	752.5	769.8	888.4	1329.2	1522.9	3312.5	9906.8	14107.7	13826.6	10124.3	9849.0
67.5°	734.6	740.4	801.7	1115.7	1460.5	1861.9	7902.1	14549.6	14861.4	11675.0	10401.3
70°	725.9	746.1	903.5	1064.8	1398.6	1570.4	4748.7	13338.5	13830.7	12080.4	9666.2
72.5°	352.2	351.1	454.6	963.0	1575.6	1628.8	2439.7	10792.3	11286.3	10466.1	7943.2
75°	284.0	259.7	248.1	352.8	1514.8	1682.0	1554.7	7426.1	7783.5	7017.1	4882.8
77.5°	269.5	240.6	220.4	220.9	640.3	1783.8	1317.0	4110.1	4214.2	3169.6	1337.8
80°	223.3	196.7	182.2	205.3	310.0	1698.8	1424.0	1860.1	1706.9	778.5	445.4
82.5°	155.0	141.1	137.1	172.4	248.1	1210.6	1656.0	999.5	838.1	389.8	274.7
85°	98.9	84.4	93.7	125.5	193.2	558.7	1705.7	779.1	619.5	247.6	155.0
87.5°	45.7	37.0	46.3	69.4	126.1	192.6	1623.0	875.1	638.0	130.7	97.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191871

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7050-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9	2529.9
2.5°	2531.1	2520.1	2511.4	2495.2	2477.3	2459.9	2444.3	2424.6	2418.9	2413.7	2421.8
5°	2539.2	2528.2	2496.4	2446.6	2391.7	2340.2	2288.7	2244.8	2217.6	2202.5	2211.2
7.5°	2551.3	2535.7	2469.8	2378.4	2279.5	2189.2	2096.1	2021.5	1966.6	1940.5	1948.0
10°	2562.3	2532.2	2424.6	2287.6	2143.0	2008.8	1861.9	1740.4	1650.2	1602.7	1614.3
12.5°	2566.9	2518.9	2361.6	2174.2	1975.8	1779.2	1562.8	1381.2	1251.7	1204.2	1194.4
15°	2571.6	2503.9	2292.2	2045.2	1773.9	1495.7	1192.7	975.2	867.6	843.9	838.7
17.5°	2572.7	2477.9	2213.5	1905.2	1537.4	1158.5	815.5	677.3	677.9	716.1	720.7
20°	2560.6	2439.1	2118.1	1731.1	1254.0	801.1	559.9	536.2	623.5	718.9	730.5
22.5°	2532.8	2387.6	2009.9	1528.1	929.5	527.5	433.2	459.2	572.0	688.9	702.2
25°	2497.5	2325.2	1882.1	1292.7	615.4	377.1	363.2	395.0	471.4	549.5	557.0
27.5°	2449.5	2251.1	1738.7	1023.2	399.7	310.6	319.9	341.3	372.5	407.2	410.7
30°	2387.6	2162.6	1585.4	746.1	301.9	279.4	292.7	304.2	317.5	337.2	338.9
32.5°	2316.5	2077.6	1428.1	515.4	267.8	263.2	273.6	279.4	289.8	301.9	303.1
35°	2256.9	1996.6	1265.0	364.4	253.3	251.0	258.0	260.3	270.1	283.4	284.6
37.5°	2222.8	1930.7	1096.6	293.8	243.5	240.0	244.1	244.1	258.0	277.6	280.5
40°	2225.1	1894.3	928.3	265.5	235.4	230.8	231.4	231.4	249.3	270.7	272.4
42.5°	2288.1	1903.5	779.1	254.5	229.0	223.8	220.9	222.7	237.7	251.6	252.8
45°	2436.2	1968.9	639.1	247.6	222.7	220.9	214.6	214.0	219.8	226.2	226.2
47.5°	2679.1	2097.9	544.3	242.9	217.5	216.9	209.4	201.9	201.3	203.6	203.6
50°	3074.2	2320.0	480.6	237.7	214.0	209.4	200.7	189.1	185.1	186.8	186.8
52.5°	3666.5	2716.2	456.4	230.8	206.5	199.0	189.1	177.6	174.1	174.7	174.7
55°	4443.3	3324.6	452.9	222.7	198.4	186.2	178.1	169.5	165.4	166.6	166.6
57.5°	5392.4	4166.2	514.8	210.0	187.4	173.5	168.9	163.1	160.2	162.0	161.4
60°	6546.3	5267.5	763.5	196.7	176.4	162.0	162.0	157.3	155.0	156.7	156.2
62.5°	7875.5	6532.4	1073.5	186.8	164.8	152.7	155.0	152.7	150.4	151.5	151.0
65°	9054.3	7356.7	1005.3	179.3	153.3	144.0	148.1	146.9	145.2	146.3	145.8
67.5°	9088.4	7051.3	564.5	171.2	142.3	135.3	141.1	140.6	139.4	140.6	140.0
70°	8110.9	5954.0	318.1	156.2	130.7	124.9	133.0	132.5	131.3	133.6	133.0
72.5°	6498.3	4320.6	232.5	137.7	119.2	113.9	123.2	122.6	122.6	126.1	124.4
75°	3739.3	2223.4	185.7	118.0	107.0	103.0	111.1	111.6	112.8	117.4	113.9
77.5°	1066.0	692.9	151.5	100.1	92.0	90.2	98.3	99.5	100.1	105.3	100.6
80°	396.2	319.3	124.9	83.9	75.2	75.8	83.3	85.0	85.6	90.8	85.0
82.5°	252.8	210.5	101.2	64.8	59.0	58.4	67.7	70.0	70.0	70.6	67.1
85°	147.5	126.1	76.3	46.9	41.6	39.9	50.3	54.4	52.6	51.5	49.2
87.5°	98.9	86.8	46.9	26.0	22.6	21.4	29.5	32.4	31.2	29.5	27.8
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)