

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: P269154

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10402.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

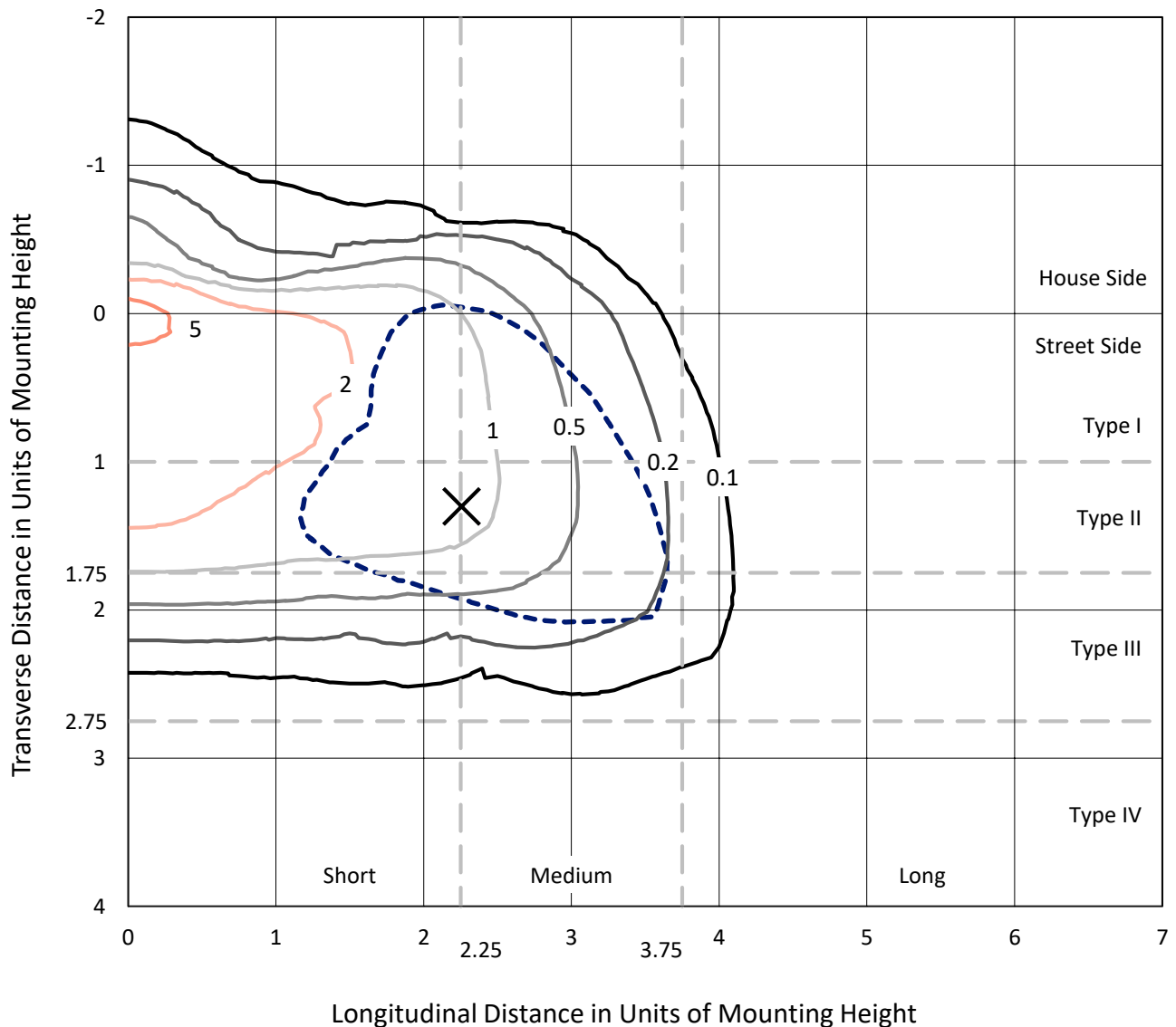
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

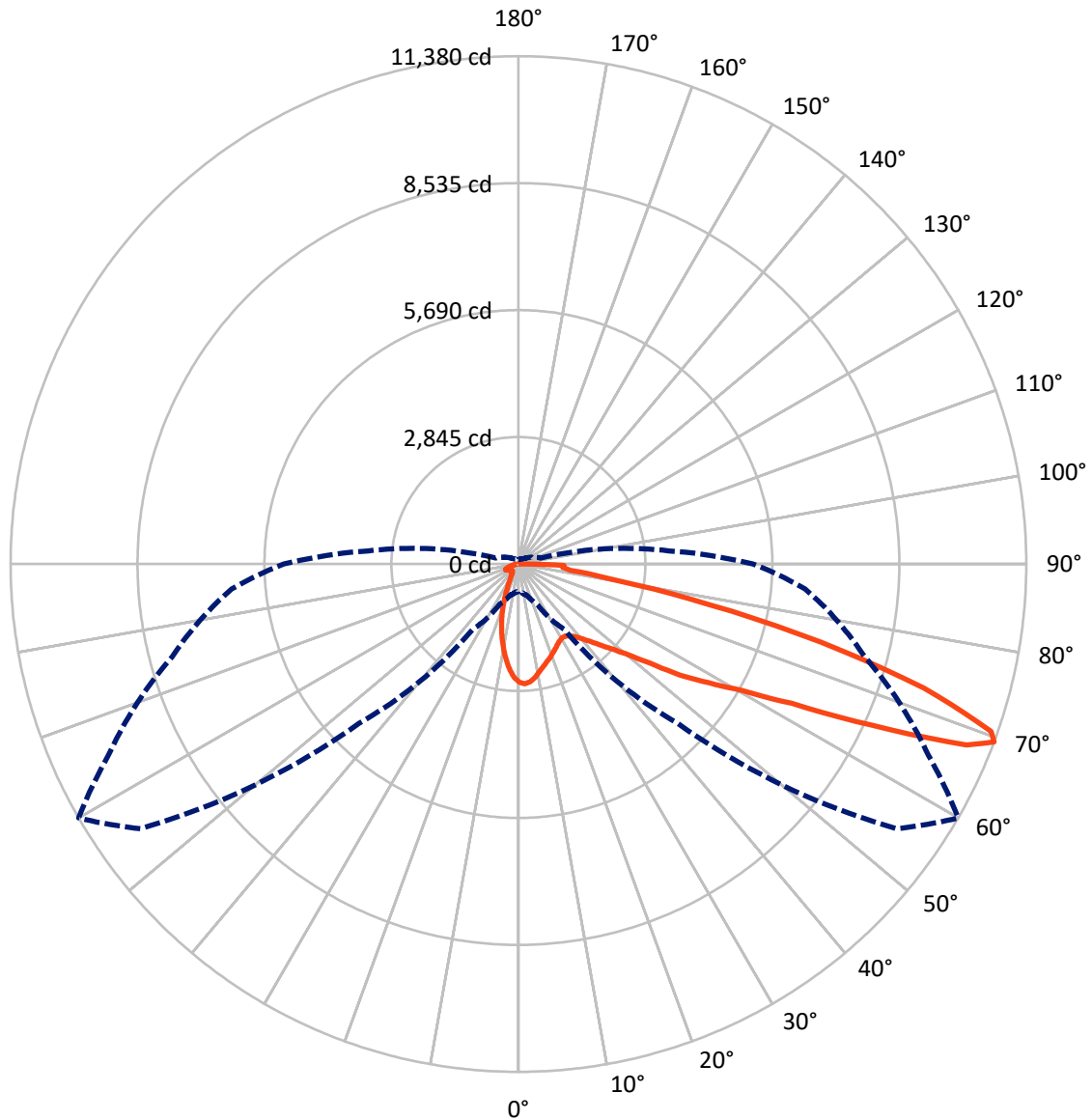
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1480.0	0.0	1480.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8922.7	0.0	8922.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	10402.7	0.0	10402.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	2.2
10°-20°	477.5	4.6
20°-30°	608.5	5.8
30°-40°	836.5	8.0
40°-50°	1357.3	13.0
50°-60°	2176.7	20.9
60°-70°	2897.0	27.8
70°-80°	1564.2	15.0
80°-90°	261.0	2.5
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°	10402.7	100.0
0°-180°	10402.7	100.0



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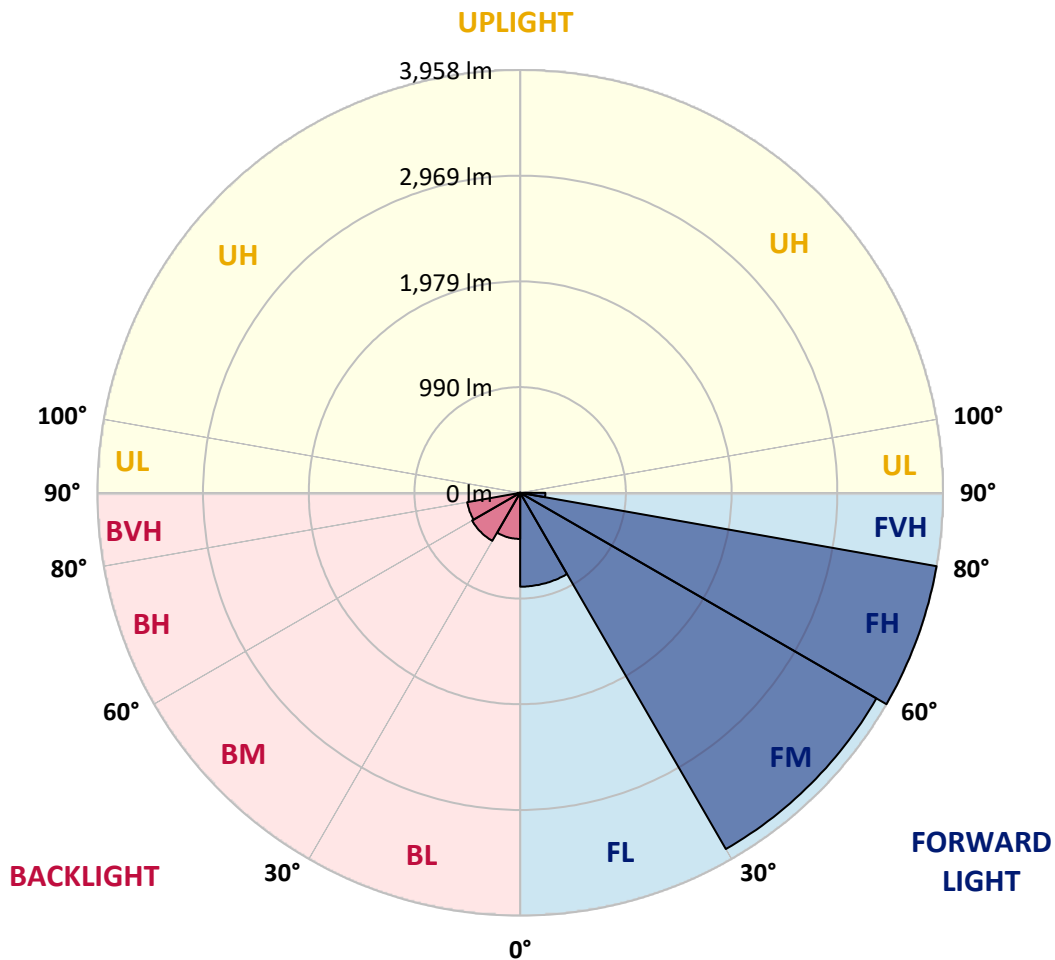
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.4	8.4			
FM	(30°-60°)	3850.5	37.0			
FH	(60°-80°)	3958.0	38.0			G2/5000
FVH	(80°-90°)	235.9	2.3			G3/500
BL	(0°-30°)	431.8	4.2	B1/500		
BM	(30°-60°)	519.9	5.0	B1/1000		
BH	(60°-80°)	503.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	25.1	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8
2.5°	2705.1	2711.1	2708.6	2707.0	2711.5	2704.5	2690.0	2685.5	2678.3	2661.9	2633.7
5°	2603.6	2621.7	2620.6	2634.2	2656.7	2662.8	2656.3	2657.2	2644.3	2623.6	2576.9
7.5°	2428.2	2435.8	2439.6	2469.4	2510.6	2543.7	2571.8	2580.9	2574.9	2557.4	2497.0
10°	2247.3	2253.3	2262.8	2297.5	2349.7	2395.5	2448.8	2479.4	2492.4	2489.5	2422.1
12.5°	2092.0	2098.0	2110.6	2149.7	2212.0	2268.4	2345.7	2383.9	2415.2	2433.7	2361.4
15°	1952.7	1965.9	1977.9	2023.2	2093.1	2166.8	2254.2	2302.5	2350.8	2392.5	2307.6
17.5°	1844.2	1857.2	1864.3	1905.6	1980.0	2070.4	2172.9	2229.7	2290.0	2358.3	2254.2
20°	1781.3	1787.4	1784.5	1807.6	1874.5	1970.3	2092.0	2157.8	2230.8	2326.2	2200.9
22.5°	1763.8	1764.4	1753.3	1750.7	1793.9	1874.9	2005.6	2085.4	2174.8	2305.1	2155.4
25°	1806.5	1805.1	1775.0	1750.3	1754.7	1802.0	1922.2	2015.1	2128.2	2300.5	2120.1
27.5°	1901.5	1906.1	1861.3	1815.0	1769.3	1767.9	1858.9	1956.8	2089.9	2321.1	2105.1
30°	2034.8	2042.2	1994.4	1935.7	1849.8	1779.0	1834.2	1922.2	2066.3	2363.8	2102.6
32.5°	2180.5	2188.5	2152.2	2090.4	1977.9	1847.3	1851.2	1925.2	2065.4	2423.6	2119.6
35°	2335.8	2344.8	2326.2	2273.9	2148.7	1973.3	1916.7	1973.8	2098.0	2515.1	2165.4
37.5°	2509.1	2523.1	2528.2	2478.5	2344.8	2139.8	2023.6	2066.3	2171.9	2642.3	2249.3
40°	2758.9	2778.4	2776.9	2705.5	2569.3	2364.2	2189.0	2199.9	2286.9	2812.1	2383.5
42.5°	3237.2	3241.3	3116.1	2960.9	2816.5	2600.6	2383.9	2374.8	2445.7	3027.2	2580.9
45°	3845.7	3829.1	3550.8	3250.7	3074.9	2871.9	2637.8	2593.4	2647.2	3289.5	2828.1
47.5°	4350.9	4312.7	3960.8	3546.8	3348.3	3166.9	2935.8	2858.2	2888.0	3586.9	3147.8
50°	4526.2	4497.5	4206.0	3793.1	3607.1	3526.7	3302.4	3192.9	3201.0	3941.8	3522.2
52.5°	4488.6	4484.5	4289.9	3955.2	3849.2	3904.6	3822.2	3673.9	3595.5	4335.7	3926.1
55°	4399.4	4408.1	4337.7	4144.2	4126.2	4269.4	4501.0	4391.5	4147.7	4733.2	4343.8
57.5°	4090.5	4112.6	4267.4	4381.9	4572.0	4784.9	5047.8	5016.7	4742.2	5162.9	4840.2
60°	3295.5	3346.7	3761.8	4335.7	5030.7	5697.1	5814.5	5742.2	5355.3	5696.1	5496.0
62.5°	2309.1	2362.4	2855.8	3753.7	4955.3	6727.1	7185.5	6873.4	6235.8	6481.5	6344.8
65°	1236.2	1261.8	1638.7	2604.5	4183.4	6939.8	9189.0	8714.1	7629.8	7449.9	7070.9
67.5°	682.0	695.9	840.3	1315.1	2679.5	6111.1	10465.4	10824.1	9371.9	8094.5	6938.8
69°	616.5	629.6	724.2	996.0	1792.9	5052.7	10340.7	11380.4	10135.8	8030.7	6450.3
70°	603.0	615.1	700.0	918.1	1451.2	4164.8	9923.1	11238.2	10317.7	7802.0	6024.2
72.5°	542.8	555.8	638.2	824.6	1240.2	2076.4	7860.3	9502.1	9367.3	6764.9	4569.4
75°	506.0	518.1	657.7	807.5	1187.4	1314.1	5182.0	7003.0	6886.0	4732.2	2463.8
77.5°	216.6	215.6	305.1	683.4	1205.0	1272.4	2784.4	4374.8	3991.4	2022.7	707.5
80°	144.7	142.2	144.7	201.0	1105.0	1279.4	1458.8	2220.6	1677.3	515.5	348.7
82.5°	124.7	122.6	127.1	122.6	388.4	1460.4	1240.2	1180.9	797.4	292.9	172.8
85°	83.9	80.4	109.6	110.0	183.4	1297.5	1397.0	997.5	645.3	173.9	85.3
87.5°	40.2	39.2	63.8	78.0	107.5	527.1	1567.4	1022.1	650.7	88.9	40.8
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°	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8	2650.8
2.5°	2625.1	2604.5	2584.5	2560.3	2535.1	2507.1	2492.9	2479.0	2475.4	2471.3	2457.4
5°	2552.8	2523.7	2473.5	2418.1	2359.8	2303.1	2259.9	2232.6	2212.0	2201.6	2182.9
7.5°	2459.3	2416.6	2328.6	2233.1	2135.2	2045.7	1968.4	1919.6	1873.3	1851.8	1827.2
10°	2370.4	2306.6	2169.9	2029.1	1888.4	1753.3	1626.1	1536.2	1456.3	1411.5	1379.8
12.5°	2294.0	2206.5	2017.1	1826.7	1633.7	1441.2	1250.8	1101.1	975.9	910.1	876.3
15°	2219.6	2114.2	1871.9	1630.2	1382.4	1120.6	870.4	700.5	597.1	555.8	541.7
17.5°	2152.2	2017.1	1726.2	1432.2	1123.2	806.6	584.9	491.5	451.8	438.3	433.7
20°	2079.3	1919.0	1574.9	1225.1	852.9	563.9	456.8	415.6	399.4	395.4	393.5
22.5°	2009.1	1822.7	1430.1	1003.5	612.6	435.1	392.5	375.4	372.8	376.4	376.4
25°	1949.2	1736.2	1273.8	771.9	449.7	366.2	351.2	347.3	356.7	369.8	372.3
27.5°	1904.5	1665.4	1107.5	569.9	358.3	318.5	318.1	324.6	348.3	373.3	378.4
30°	1873.9	1598.1	929.7	411.1	300.6	280.5	288.4	302.5	337.3	372.8	382.4
32.5°	1858.4	1548.3	744.2	318.1	257.3	246.2	259.8	276.9	311.1	344.2	356.7
35°	1870.5	1511.6	569.3	265.3	227.1	218.6	232.8	249.3	269.3	283.4	292.9
37.5°	1915.5	1496.9	429.7	237.7	206.5	198.4	209.6	219.0	227.1	231.1	235.6
40°	2013.1	1512.6	344.2	223.6	195.0	185.0	189.5	193.0	197.9	201.9	204.1
42.5°	2156.8	1559.3	308.6	218.1	189.0	174.5	173.4	174.9	181.4	189.0	190.4
45°	2357.8	1641.7	306.1	221.6	185.9	165.8	161.3	163.3	173.4	185.0	186.9
47.5°	2614.5	1767.3	326.2	232.1	188.5	161.3	153.8	156.2	168.8	184.4	186.9
50°	2925.6	1942.8	359.9	247.8	199.6	162.4	151.3	152.7	165.8	183.0	185.4
52.5°	3292.9	2191.4	396.5	262.8	211.0	168.8	153.3	149.7	161.9	176.8	179.9
55°	3701.6	2510.6	434.2	276.4	217.1	176.8	157.4	145.7	154.2	166.8	169.3
57.5°	4203.0	2956.9	499.5	289.4	221.2	182.4	161.3	141.8	144.7	153.8	155.8
60°	4882.0	3588.0	614.6	311.1	230.1	184.4	160.7	138.2	135.1	140.1	141.3
62.5°	5695.6	4273.3	710.6	338.2	245.2	185.9	157.8	135.6	127.1	127.1	128.2
65°	6178.5	4456.9	657.3	360.8	257.9	184.4	154.2	133.2	121.1	115.6	116.2
67.5°	5768.8	3919.7	563.2	365.3	257.3	177.3	148.8	128.6	115.1	106.4	106.0
69°	5255.9	3381.8	521.0	353.3	245.2	168.3	141.8	123.6	110.5	101.5	101.0
70°	4842.3	3053.8	493.4	340.2	232.1	161.9	136.3	119.0	107.1	98.5	97.5
72.5°	3520.6	2001.1	421.7	292.5	191.5	135.6	117.6	104.6	95.5	90.5	89.4
75°	1759.3	954.3	342.3	237.2	146.8	108.5	96.5	87.5	83.0	81.9	81.3
77.5°	577.9	437.1	244.7	176.8	109.1	84.9	78.0	71.3	70.3	73.4	72.4
80°	317.6	254.3	155.2	117.0	74.4	62.3	61.4	57.9	59.3	64.3	63.3
82.5°	161.9	132.2	95.9	70.3	50.2	44.7	48.8	46.7	48.8	53.3	52.8
85°	79.9	72.4	60.8	42.7	33.1	28.7	34.7	36.2	37.2	40.8	40.8
87.5°	46.3	42.7	32.2	20.1	16.6	15.1	20.1	19.7	23.1	25.2	24.7
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)