

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: P193720

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193720
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-02-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 10903 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

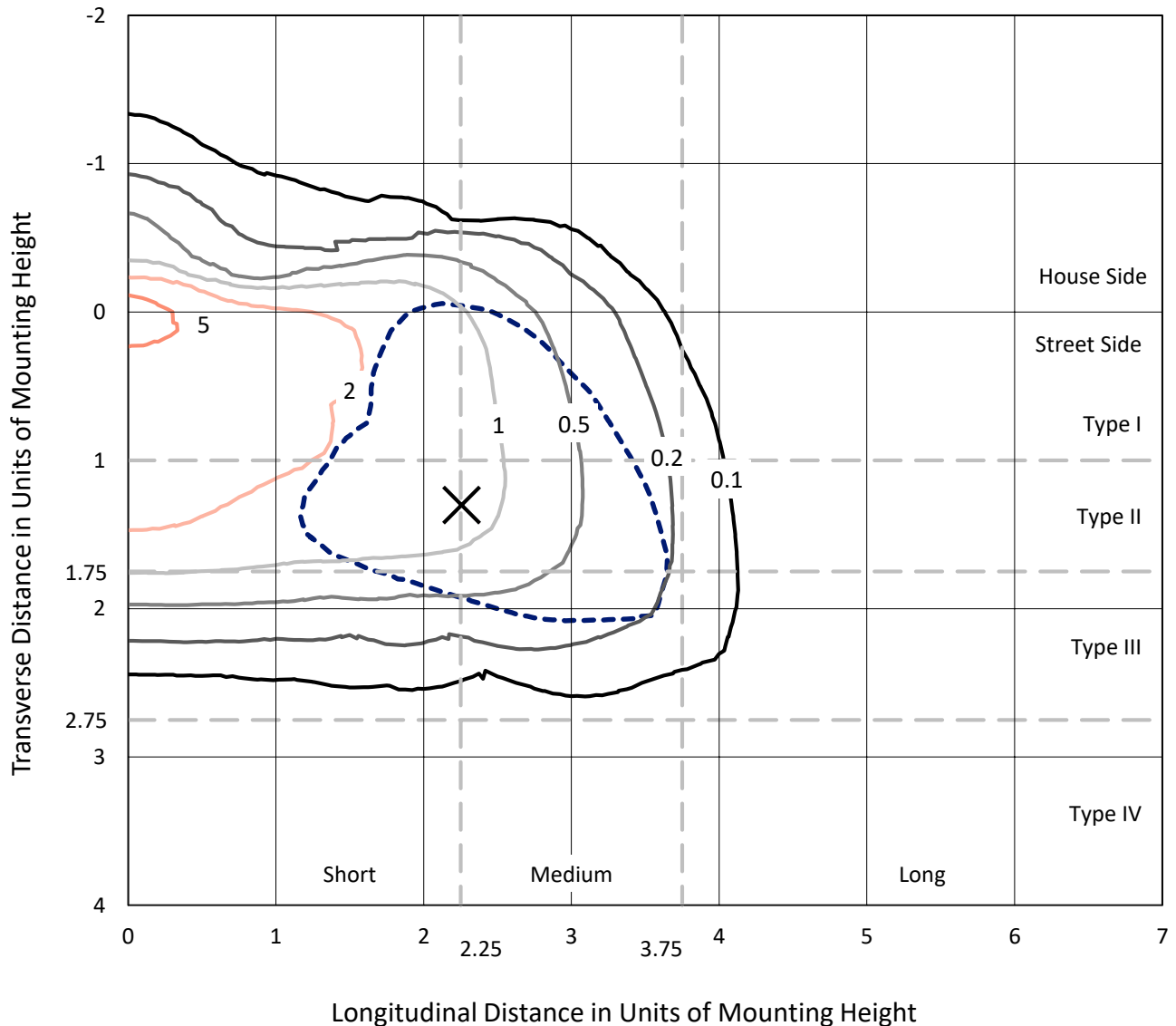


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

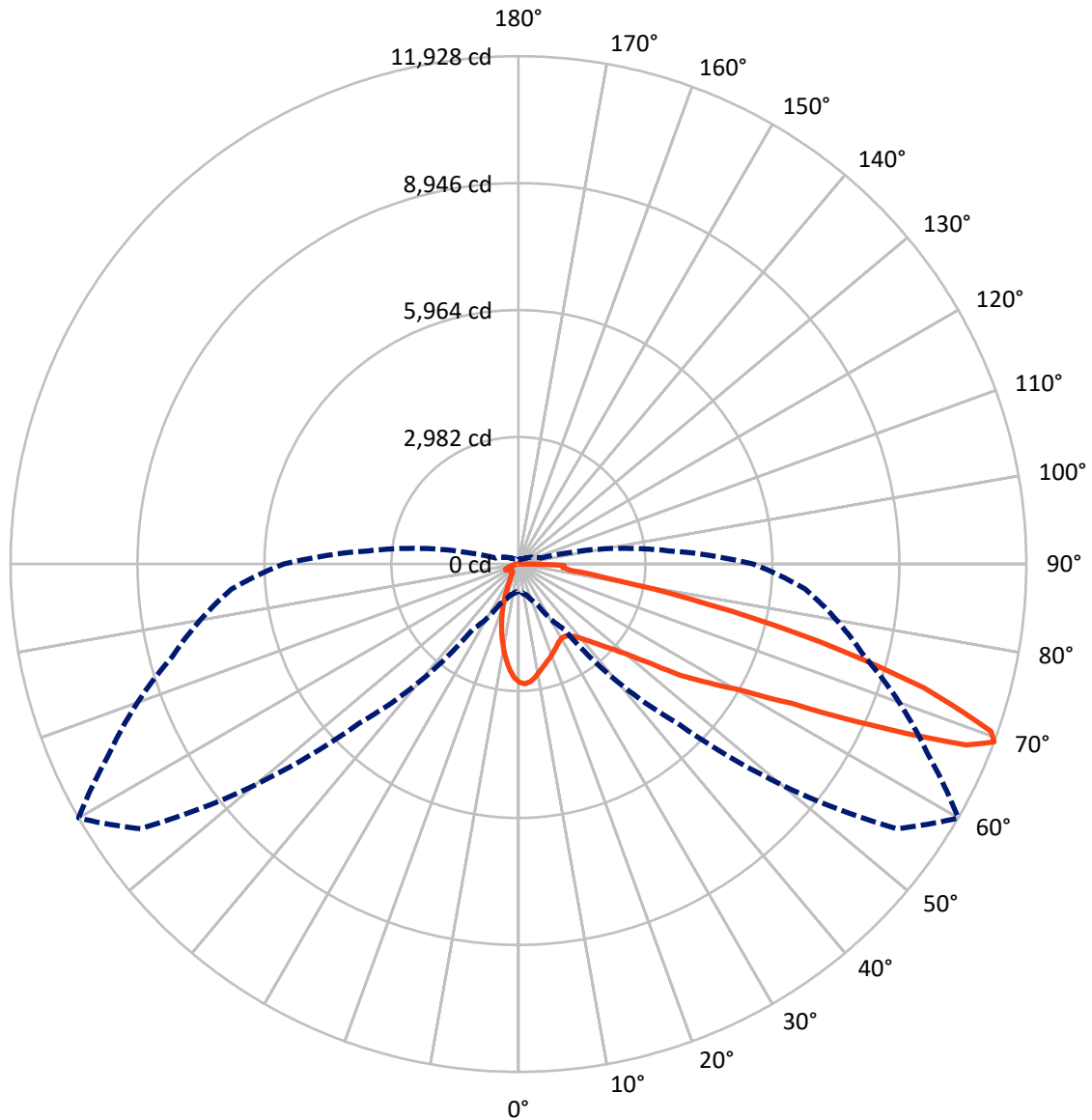


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

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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	1551.2	0.0	1551.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9351.8	0.0	9351.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	10903.0	0.0	10903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	2.2
10°-20°	500.5	4.6
20°-30°	637.7	5.8
30°-40°	876.7	8.0
40°-50°	1422.5	13.0
50°-60°	2281.4	20.9
60°-70°	3036.3	27.8
70°-80°	1639.4	15.0
80°-90°	273.5	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°	10903.0	100.0
0°-180°	10903.0	100.0

Coefficient of Utilization



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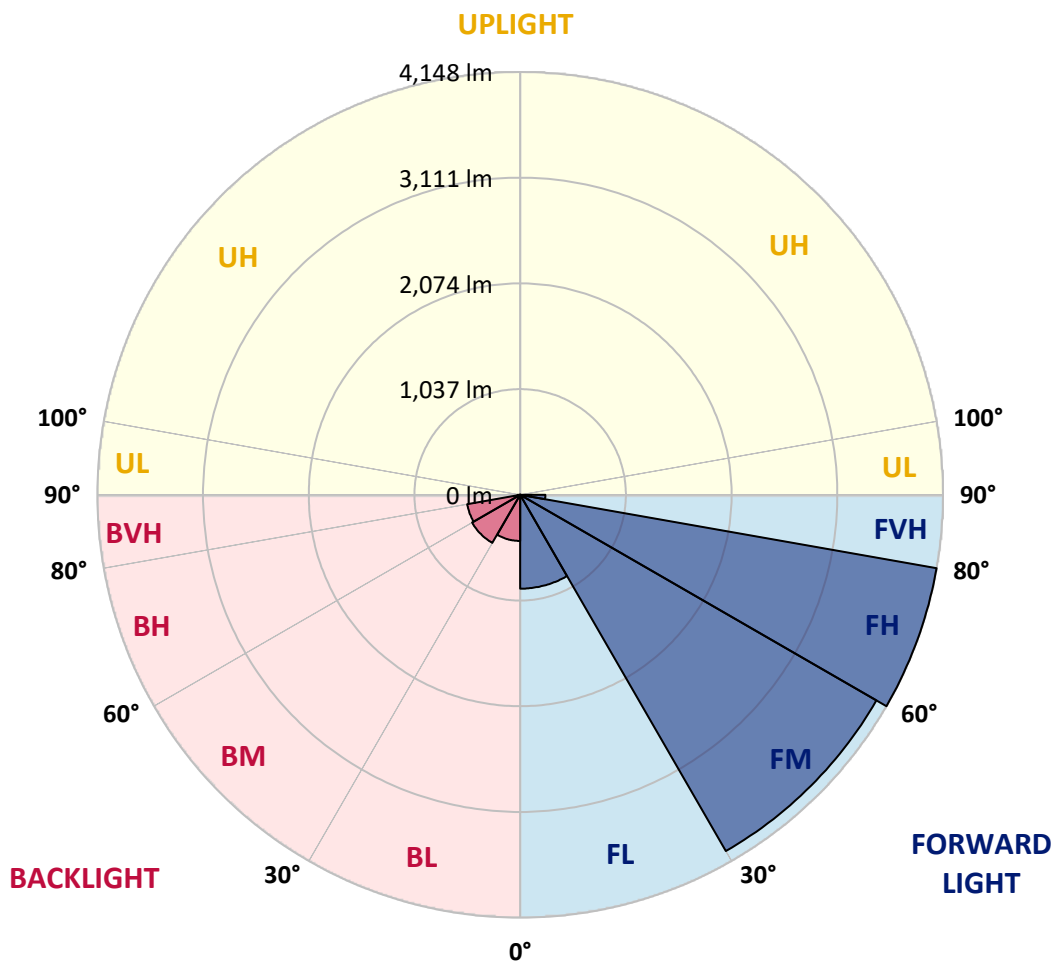
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	920.6	8.4			
FM	(30°-60°)	4035.7	37.0			
FH	(60°-80°)	4148.4	38.0			G2/5000
FVH	(80°-90°)	247.2	2.3			G3/500
BL	(0°-30°)	452.5	4.2	B1/500		
BM	(30°-60°)	545.0	5.0	B1/1000		
BH	(60°-80°)	527.3	4.8	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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°	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2
2.5°	2835.1	2841.5	2838.8	2837.2	2842.0	2834.6	2819.3	2814.6	2807.2	2789.8	2760.3
5°	2728.7	2747.7	2746.6	2760.9	2784.6	2790.9	2784.0	2785.1	2771.4	2749.8	2700.8
7.5°	2544.9	2552.8	2557.0	2588.1	2631.3	2666.1	2695.6	2705.0	2698.7	2680.3	2617.1
10°	2355.3	2361.6	2371.7	2408.0	2462.8	2510.7	2566.5	2598.7	2612.3	2609.2	2538.6
12.5°	2192.6	2198.9	2212.1	2253.1	2318.5	2377.4	2458.6	2498.6	2531.2	2550.7	2474.9
15°	2046.7	2060.4	2073.0	2120.4	2193.6	2271.1	2362.7	2413.3	2463.8	2507.5	2418.5
17.5°	1932.9	1946.6	1954.0	1997.2	2075.1	2169.9	2277.4	2336.9	2400.1	2471.7	2362.7
20°	1867.1	1873.4	1870.2	1894.5	1964.5	2065.1	2192.6	2261.6	2337.9	2438.0	2306.9
22.5°	1848.7	1849.2	1837.6	1835.0	1880.3	1965.1	2102.0	2185.7	2279.5	2415.9	2258.9
25°	1893.4	1891.8	1860.2	1834.4	1839.2	1888.7	2014.6	2112.0	2230.5	2411.2	2222.1
27.5°	1993.0	1997.7	1950.8	1902.4	1854.4	1852.9	1948.2	2050.9	2190.5	2432.7	2206.3
30°	2132.5	2140.4	2090.4	2028.8	1938.7	1864.5	1922.4	2014.6	2165.7	2477.5	2203.6
32.5°	2285.3	2293.7	2255.8	2191.0	2073.0	1936.1	1940.3	2017.7	2164.7	2540.2	2221.5
35°	2448.0	2457.5	2438.0	2383.2	2252.1	2068.3	2008.8	2068.8	2198.9	2636.0	2269.5
37.5°	2629.7	2644.5	2649.7	2597.6	2457.5	2242.6	2121.0	2165.7	2276.3	2769.3	2357.4
40°	2891.5	2912.0	2910.4	2835.7	2692.9	2478.0	2294.2	2305.8	2396.9	2947.3	2498.1
42.5°	3392.9	3397.1	3266.0	3103.2	2952.1	2725.6	2498.6	2489.1	2563.4	3172.7	2705.0
45°	4030.7	4013.3	3721.5	3407.1	3222.8	3010.0	2764.6	2718.2	2774.6	3447.7	2964.2
47.5°	4560.0	4520.0	4151.3	3717.3	3509.3	3319.2	3076.9	2995.8	3026.8	3759.5	3299.1
50°	4743.8	4713.8	4408.3	3975.4	3780.5	3696.3	3461.4	3346.5	3355.0	4131.3	3691.5
52.5°	4704.3	4700.1	4496.3	4145.5	4034.4	4092.3	4005.9	3850.6	3768.4	4544.2	4115.0
55°	4611.1	4620.1	4546.3	4343.6	4324.6	4474.7	4717.5	4602.7	4347.2	4960.8	4552.6
57.5°	4287.2	4310.4	4472.6	4592.7	4791.8	5015.1	5290.5	5257.9	4970.3	5411.1	5073.0
60°	3454.0	3507.7	3942.7	4544.2	5272.6	5971.0	6094.2	6018.4	5612.9	5969.9	5760.3
62.5°	2420.1	2475.9	2993.1	3934.3	5193.6	7050.7	7531.0	7204.0	6535.6	6793.2	6649.9
65°	1295.6	1322.5	1717.5	2729.8	4384.6	7273.5	9630.9	9133.2	7996.6	7808.1	7410.9
67.5°	714.7	729.5	880.6	1378.3	2808.3	6405.0	10968.7	11344.7	9822.6	8483.8	7272.4
69°	646.2	659.9	758.9	1043.9	1879.2	5295.8	10838.1	11927.8	10623.2	8416.9	6760.5
70°	632.0	644.7	733.7	962.2	1521.1	4365.1	10400.4	11778.7	10813.8	8177.3	6313.9
72.5°	568.8	582.5	668.9	864.3	1299.9	2176.3	8238.4	9959.0	9817.9	7090.2	4789.1
75°	530.4	543.0	689.4	846.4	1244.6	1377.3	5431.1	7339.8	7217.1	4959.8	2582.3
77.5°	227.0	225.9	319.7	716.3	1263.0	1333.6	2918.3	4585.3	4183.4	2119.9	741.6
80°	151.7	149.1	151.7	210.7	1158.2	1340.9	1529.0	2327.4	1758.1	540.4	365.5
82.5°	130.6	128.5	133.3	128.5	407.1	1530.5	1299.9	1237.7	835.8	307.1	181.2
85°	88.0	84.3	114.8	115.3	192.2	1359.9	1464.2	1045.5	676.3	182.2	89.5
87.5°	42.1	41.1	66.9	81.6	112.7	552.5	1642.7	1071.3	682.1	93.2	42.7
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°	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2	2778.2
2.5°	2751.4	2729.8	2708.7	2683.4	2657.1	2627.6	2612.9	2598.1	2594.4	2590.2	2575.5
5°	2675.5	2645.0	2592.3	2534.4	2473.3	2413.8	2368.5	2340.1	2318.5	2307.4	2287.9
7.5°	2577.6	2532.8	2440.6	2340.6	2237.9	2144.1	2063.0	2011.9	1963.5	1940.8	1915.0
10°	2484.4	2417.5	2274.2	2126.7	1979.3	1837.6	1704.3	1610.1	1526.3	1479.5	1446.3
12.5°	2404.3	2312.7	2114.1	1914.5	1712.2	1510.5	1310.9	1154.0	1022.8	953.8	918.5
15°	2326.4	2215.8	1961.9	1708.6	1448.9	1174.5	912.2	734.2	625.7	582.5	567.8
17.5°	2255.8	2114.1	1809.2	1501.0	1177.1	845.3	613.1	515.1	473.5	459.3	454.5
20°	2179.4	2011.4	1650.6	1284.1	893.8	590.9	478.8	435.6	418.7	414.5	412.4
22.5°	2105.7	1910.3	1498.9	1051.8	642.0	456.1	411.3	393.4	390.8	394.5	394.5
25°	2043.0	1819.7	1335.1	809.0	471.4	384.0	368.2	363.9	373.9	387.6	390.3
27.5°	1996.1	1745.4	1160.8	597.3	375.5	333.9	333.4	340.2	365.0	391.3	396.6
30°	1964.0	1674.9	974.4	430.8	315.0	293.9	302.3	317.1	353.4	390.8	400.8
32.5°	1947.7	1622.7	780.0	333.4	269.7	258.1	272.3	290.2	326.0	360.8	373.9
35°	1960.3	1584.3	596.7	278.1	238.1	229.1	243.9	261.2	282.3	297.0	307.1
37.5°	2007.7	1569.0	450.3	249.1	216.5	208.0	219.6	229.6	238.1	242.3	247.0
40°	2109.9	1585.3	360.8	234.4	204.4	193.8	198.6	202.2	207.5	211.7	213.8
42.5°	2260.5	1634.3	323.4	228.6	198.0	182.8	181.7	183.3	190.1	198.0	199.6
45°	2471.2	1720.7	320.7	232.3	194.9	173.8	169.1	171.2	181.7	193.8	195.9
47.5°	2740.3	1852.3	341.8	243.3	197.5	169.1	161.2	163.8	177.0	193.3	195.9
50°	3066.3	2036.2	377.1	259.7	209.1	170.1	158.5	160.1	173.8	191.7	194.3
52.5°	3451.4	2296.9	415.6	275.5	221.2	177.0	160.6	157.0	169.6	185.4	188.6
55°	3879.5	2631.3	455.1	289.7	227.5	185.4	164.9	152.7	161.7	174.9	177.5
57.5°	4405.2	3099.0	523.5	303.4	231.7	191.2	169.1	148.5	151.7	161.2	163.3
60°	5116.7	3760.5	644.1	326.0	241.2	193.3	168.5	144.8	141.7	146.9	148.0
62.5°	5969.4	4478.9	744.7	354.5	257.0	194.9	165.4	142.2	133.3	133.3	134.3
65°	6475.6	4671.1	688.9	378.2	270.2	193.3	161.7	139.6	126.9	121.1	121.7
67.5°	6046.3	4108.1	590.4	382.9	269.7	185.9	155.9	134.8	120.6	111.7	111.1
69°	5508.6	3544.6	546.2	370.3	257.0	176.4	148.5	129.6	115.9	106.4	105.9
70°	5075.1	3200.6	517.2	356.6	243.3	169.6	142.7	124.8	112.2	103.2	102.2
72.5°	3689.9	2097.2	441.9	306.5	200.7	142.2	123.2	109.5	100.1	94.8	93.7
75°	1843.9	1000.2	358.7	248.6	153.8	113.8	101.1	91.6	86.9	85.8	85.3
77.5°	605.7	458.2	256.5	185.4	114.3	89.0	81.6	74.8	73.7	76.9	75.8
80°	332.9	266.5	162.7	122.7	77.9	65.3	64.3	60.6	62.1	67.4	66.4
82.5°	169.6	138.5	100.6	73.7	52.7	46.9	51.1	49.0	51.1	55.8	55.3
85°	83.7	75.8	63.7	44.8	34.8	30.0	36.3	37.9	39.0	42.7	42.7
87.5°	48.5	44.8	33.7	21.1	17.4	15.8	21.1	20.5	24.2	26.3	25.8
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)