

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: P193710

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193710  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA 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: 9939 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G3

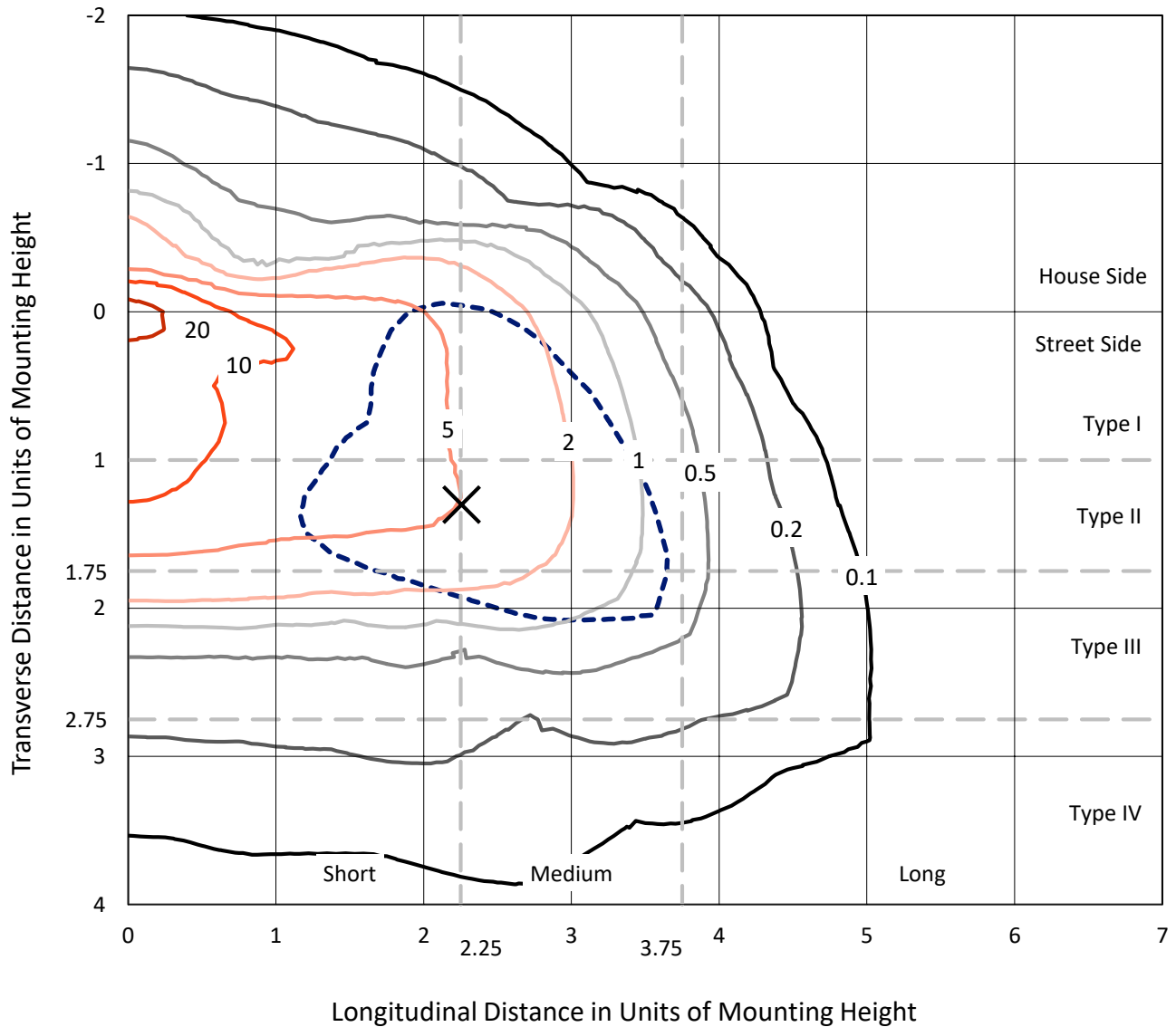
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

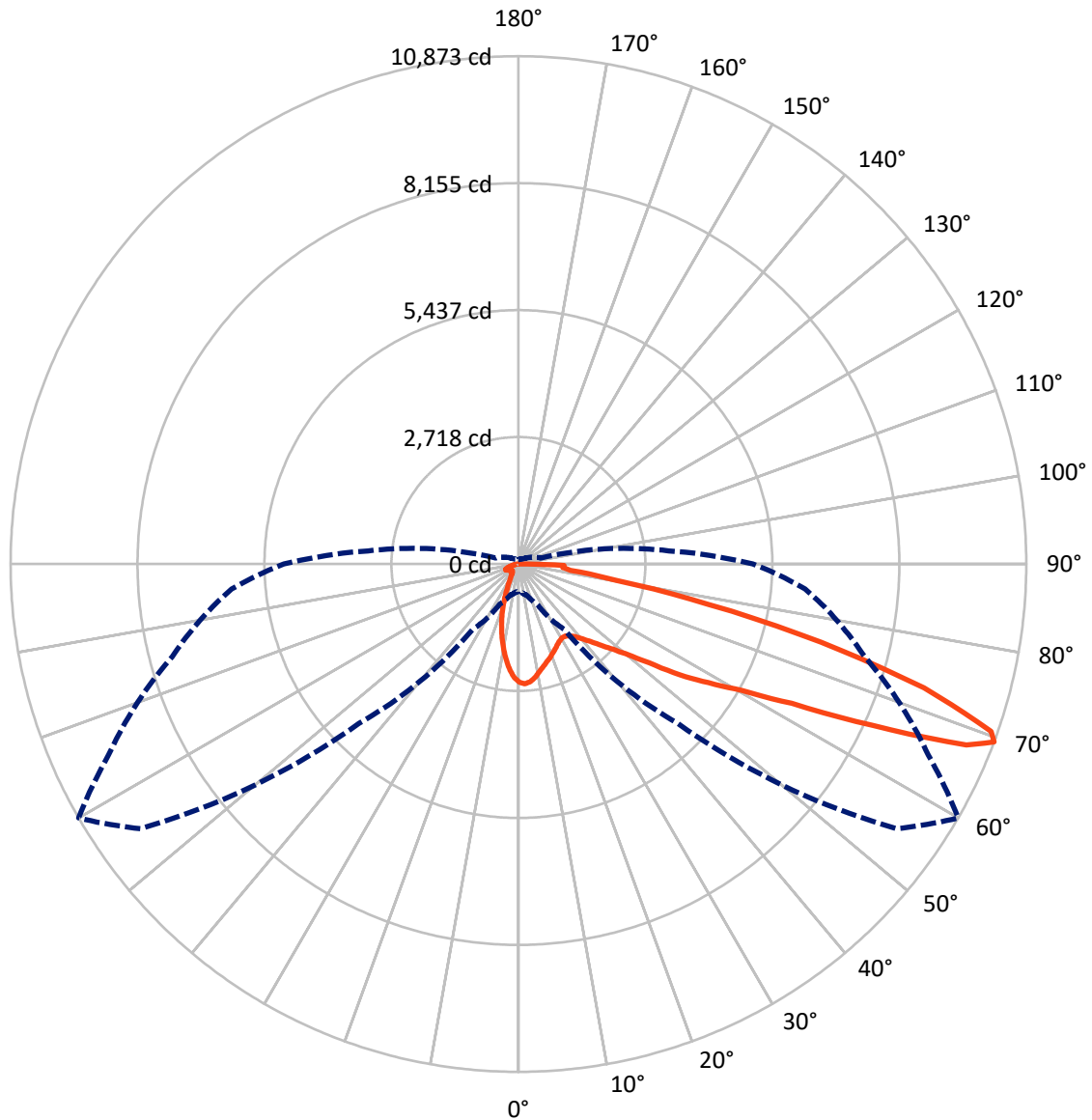
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 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
<b>House Side</b>	Lumens	1414.0	0.0	1414.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8525.0	0.0	8525.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9939.0	0.0	9939.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	2.2
10°-20°	456.2	4.6
20°-30°	581.3	5.8
30°-40°	799.2	8.0
40°-50°	1296.8	13.0
50°-60°	2079.7	20.9
60°-70°	2767.9	27.8
70°-80°	1494.4	15.0
80°-90°	249.4	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°	9939.0	100.0
0°-180°	9939.0	100.0



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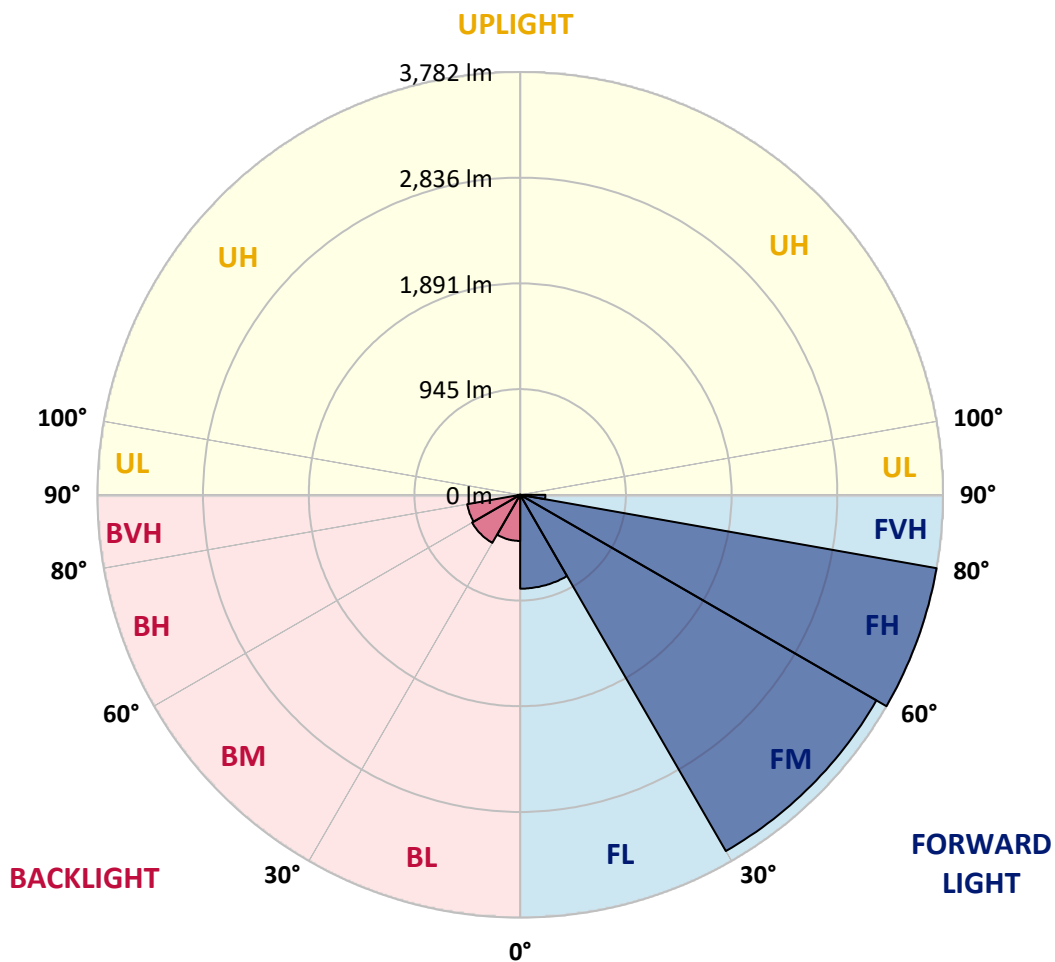
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.2	8.4			
FM (30°-60°)	3678.8	37.0			
FH (60°-80°)	3781.6	38.0			G2/5000
FVH (80°-90°)	225.3	2.3			G3/500
BL (0°-30°)	412.5	4.2	B1/500		
BM (30°-60°)	496.8	5.0	B1/1000		
BH (60°-80°)	480.7	4.8	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6
2.5°	2584.5	2590.2	2587.8	2586.4	2590.7	2584.0	2570.1	2565.7	2559.0	2543.2	2516.3
5°	2487.5	2504.8	2503.8	2516.8	2538.4	2544.1	2537.9	2538.8	2526.4	2506.7	2462.0
7.5°	2319.9	2327.1	2331.0	2359.3	2398.7	2430.3	2457.2	2465.9	2460.1	2443.3	2385.7
10°	2147.1	2152.8	2162.0	2195.1	2245.0	2288.7	2339.6	2368.9	2381.4	2378.5	2314.2
12.5°	1998.7	2004.5	2016.5	2053.9	2113.5	2167.2	2241.2	2277.7	2307.4	2325.2	2256.1
15°	1865.7	1878.2	1889.7	1932.9	1999.7	2070.3	2153.8	2199.9	2246.0	2285.8	2204.7
17.5°	1762.0	1774.5	1781.2	1820.6	1891.7	1978.1	2076.0	2130.3	2187.9	2253.2	2153.8
20°	1702.0	1707.8	1704.9	1727.0	1790.8	1882.5	1998.7	2061.6	2131.2	2222.5	2102.9
22.5°	1685.2	1685.7	1675.1	1672.7	1714.0	1791.3	1916.1	1992.5	2077.9	2202.3	2059.2
25°	1726.0	1724.6	1695.8	1672.2	1676.6	1721.7	1836.4	1925.3	2033.3	2198.0	2025.6
27.5°	1816.8	1821.1	1778.3	1734.2	1690.5	1689.0	1775.9	1869.6	1996.8	2217.7	2011.2
30°	1944.0	1951.2	1905.6	1849.4	1767.3	1699.6	1752.4	1836.4	1974.2	2258.5	2008.8
32.5°	2083.2	2090.9	2056.3	1997.3	1889.7	1764.9	1768.7	1839.3	1973.3	2315.6	2025.1
35°	2231.6	2240.2	2222.5	2172.5	2053.0	1885.4	1831.2	1885.9	2004.5	2403.0	2068.8
37.5°	2397.2	2410.7	2415.5	2367.9	2240.2	2044.3	1933.4	1974.2	2075.1	2524.4	2149.0
40°	2635.8	2654.6	2653.1	2584.9	2454.8	2258.9	2091.4	2101.9	2185.0	2686.7	2277.2
42.5°	3092.9	3096.7	2977.2	2828.8	2691.0	2484.6	2277.7	2269.0	2336.7	2892.2	2465.9
45°	3674.3	3658.5	3392.5	3105.9	2937.8	2743.9	2520.1	2477.9	2529.2	3142.8	2702.1
47.5°	4156.8	4120.3	3784.3	3388.7	3199.0	3025.7	2804.8	2730.9	2759.2	3427.1	3007.4
50°	4324.4	4297.0	4018.6	3623.9	3446.3	3369.4	3155.3	3050.7	3058.3	3766.0	3365.1
52.5°	4288.4	4284.5	4098.7	3779.0	3677.7	3730.5	3651.8	3510.1	3435.2	4142.4	3751.1
55°	4203.4	4211.6	4144.4	3959.5	3942.2	4079.1	4300.4	4195.7	3962.9	4522.2	4150.1
57.5°	3908.1	3929.3	4077.1	4186.6	4368.1	4571.7	4822.8	4793.0	4530.8	4932.7	4624.5
60°	3148.6	3197.6	3594.1	4142.4	4806.4	5443.1	5555.4	5486.3	5116.6	5442.1	5251.0
62.5°	2206.1	2257.0	2728.5	3586.5	4734.4	6427.3	6865.2	6567.0	5957.8	6192.5	6061.9
65°	1181.1	1205.6	1565.7	2488.4	3997.0	6630.4	8779.4	8325.7	7289.6	7117.7	6755.7
67.5°	651.5	665.0	802.8	1256.5	2560.0	5838.7	9998.9	10341.7	8954.2	7733.7	6629.4
69°	589.1	601.6	691.8	951.6	1713.1	4827.6	9879.8	10873.2	9683.9	7672.7	6162.8
70°	576.1	587.7	668.8	877.2	1386.6	3979.2	9480.8	10737.3	9857.7	7454.3	5755.6
72.5°	518.5	531.0	609.7	787.9	1184.9	1983.8	7510.0	9078.5	8949.8	6463.3	4365.7
75°	483.5	495.0	628.5	771.5	1134.5	1255.5	4950.9	6690.9	6579.0	4521.2	2354.0
77.5°	206.9	206.0	291.4	653.0	1151.3	1215.7	2660.3	4179.9	3813.6	1932.5	676.0
80°	138.3	135.9	138.3	192.0	1055.8	1222.4	1393.8	2121.6	1602.6	492.6	333.2
82.5°	119.1	117.1	121.5	117.1	371.1	1395.2	1184.9	1128.3	761.9	279.9	165.2
85°	80.2	76.8	104.7	105.1	175.2	1239.7	1334.7	953.0	616.5	166.1	81.6
87.5°	38.4	37.4	61.0	74.4	102.7	503.6	1497.5	976.6	621.7	85.0	38.9
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°	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6
2.5°	2508.1	2488.4	2469.2	2446.2	2422.2	2395.3	2381.9	2368.4	2365.0	2361.2	2347.8
5°	2439.0	2411.1	2363.1	2310.3	2254.6	2200.4	2159.1	2133.2	2113.5	2103.4	2085.6
7.5°	2349.7	2308.9	2224.9	2133.6	2040.0	1954.5	1880.6	1834.0	1789.9	1769.2	1745.7
10°	2264.7	2203.7	2073.1	1938.7	1804.3	1675.1	1553.7	1467.7	1391.4	1348.6	1318.4
12.5°	2191.7	2108.2	1927.2	1745.2	1560.9	1377.0	1195.0	1051.9	932.4	869.5	837.3
15°	2120.7	2019.8	1788.4	1557.5	1320.8	1070.7	831.6	669.3	570.4	531.0	517.6
17.5°	2056.3	1927.2	1649.2	1368.3	1073.1	770.6	558.9	469.6	431.6	418.7	414.3
20°	1986.7	1833.6	1504.7	1170.5	814.8	538.7	436.4	397.1	381.7	377.9	375.9
22.5°	1919.5	1741.4	1366.4	958.8	585.3	415.8	375.0	358.6	356.2	359.6	359.6
25°	1862.4	1658.8	1217.1	737.5	429.7	350.0	335.6	331.8	340.9	353.4	355.8
27.5°	1819.6	1591.1	1058.2	544.5	342.3	304.4	303.9	310.2	332.7	356.7	361.5
30°	1790.3	1526.8	888.2	392.7	287.1	267.9	275.6	289.0	322.2	356.2	365.4
32.5°	1775.5	1479.2	711.1	303.9	245.8	235.3	248.2	264.5	297.2	328.9	340.9
35°	1787.0	1444.2	544.0	253.5	217.0	208.9	222.3	238.1	257.3	270.8	279.9
37.5°	1830.2	1430.3	410.5	227.1	197.3	189.6	200.2	209.3	217.0	220.9	225.2
40°	1923.3	1445.1	328.9	213.7	186.3	176.7	181.0	184.4	189.2	193.0	194.9
42.5°	2060.7	1489.8	294.8	208.4	180.5	166.6	165.6	167.1	173.3	180.5	182.0
45°	2252.7	1568.5	292.4	211.7	177.6	158.4	154.1	156.0	165.6	176.7	178.6
47.5°	2498.0	1688.6	311.6	221.8	180.0	154.1	146.9	149.3	161.3	176.2	178.6
50°	2795.2	1856.1	343.8	236.7	190.6	155.1	144.5	146.0	158.4	174.8	177.2
52.5°	3146.2	2093.8	378.8	251.1	201.6	161.3	146.4	143.1	154.6	169.0	171.9
55°	3536.5	2398.7	414.8	264.1	207.4	169.0	150.3	139.2	147.4	159.4	161.8
57.5°	4015.7	2825.0	477.2	276.5	211.3	174.3	154.1	135.4	138.3	146.9	148.8
60°	4664.3	3428.0	587.2	297.2	219.9	176.2	153.6	132.0	129.2	134.0	134.9
62.5°	5441.6	4082.9	678.9	323.1	234.3	177.6	150.8	129.6	121.5	121.5	122.4
65°	5903.0	4258.1	628.0	344.7	246.3	176.2	147.4	127.2	115.7	110.4	110.9
67.5°	5511.7	3744.9	538.2	349.0	245.8	169.5	142.1	122.9	109.9	101.8	101.3
69°	5021.5	3231.2	497.9	337.5	234.3	160.8	135.4	118.1	105.6	97.0	96.5
70°	4626.4	2917.7	471.5	325.0	221.8	154.6	130.1	113.8	102.3	94.1	93.1
72.5°	3363.7	1911.8	402.8	279.4	182.9	129.6	112.3	99.9	91.2	86.4	85.5
75°	1680.9	911.7	327.0	226.6	140.2	103.7	92.2	83.5	79.2	78.3	77.8
77.5°	552.1	417.7	233.8	169.0	104.2	81.1	74.4	68.2	67.2	70.1	69.1
80°	303.4	242.9	148.4	111.9	71.1	59.5	58.6	55.2	56.7	61.5	60.5
82.5°	154.6	126.3	91.7	67.2	48.0	42.7	46.6	44.7	46.6	50.9	50.4
85°	76.3	69.1	58.1	40.8	31.7	27.4	33.1	34.6	35.5	38.9	38.9
87.5°	44.2	40.8	30.7	19.2	15.8	14.4	19.2	18.7	22.1	24.0	23.5
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)