

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: P323307

Luminaire Tested: **GLEON-SA3A-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8663 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

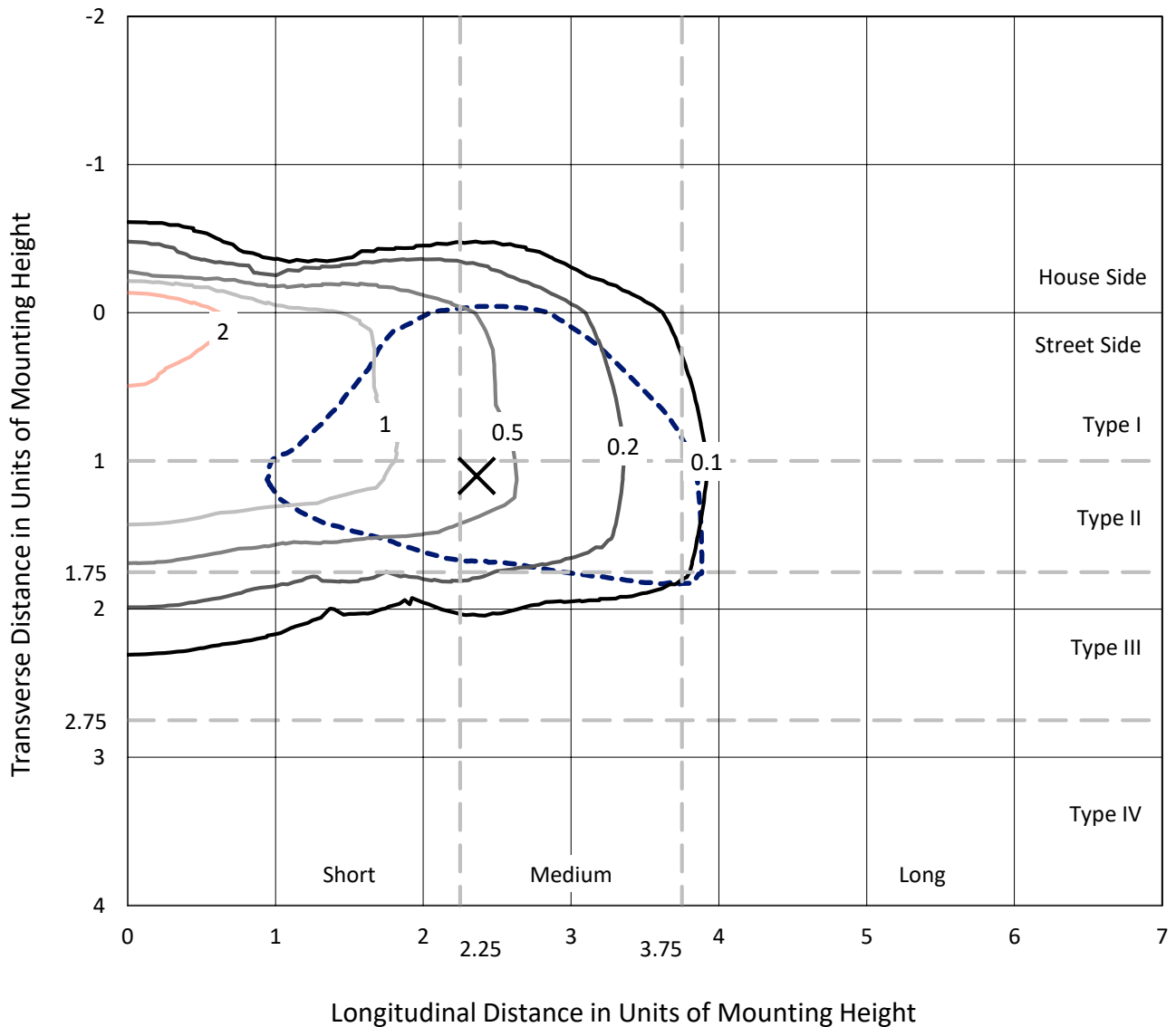
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

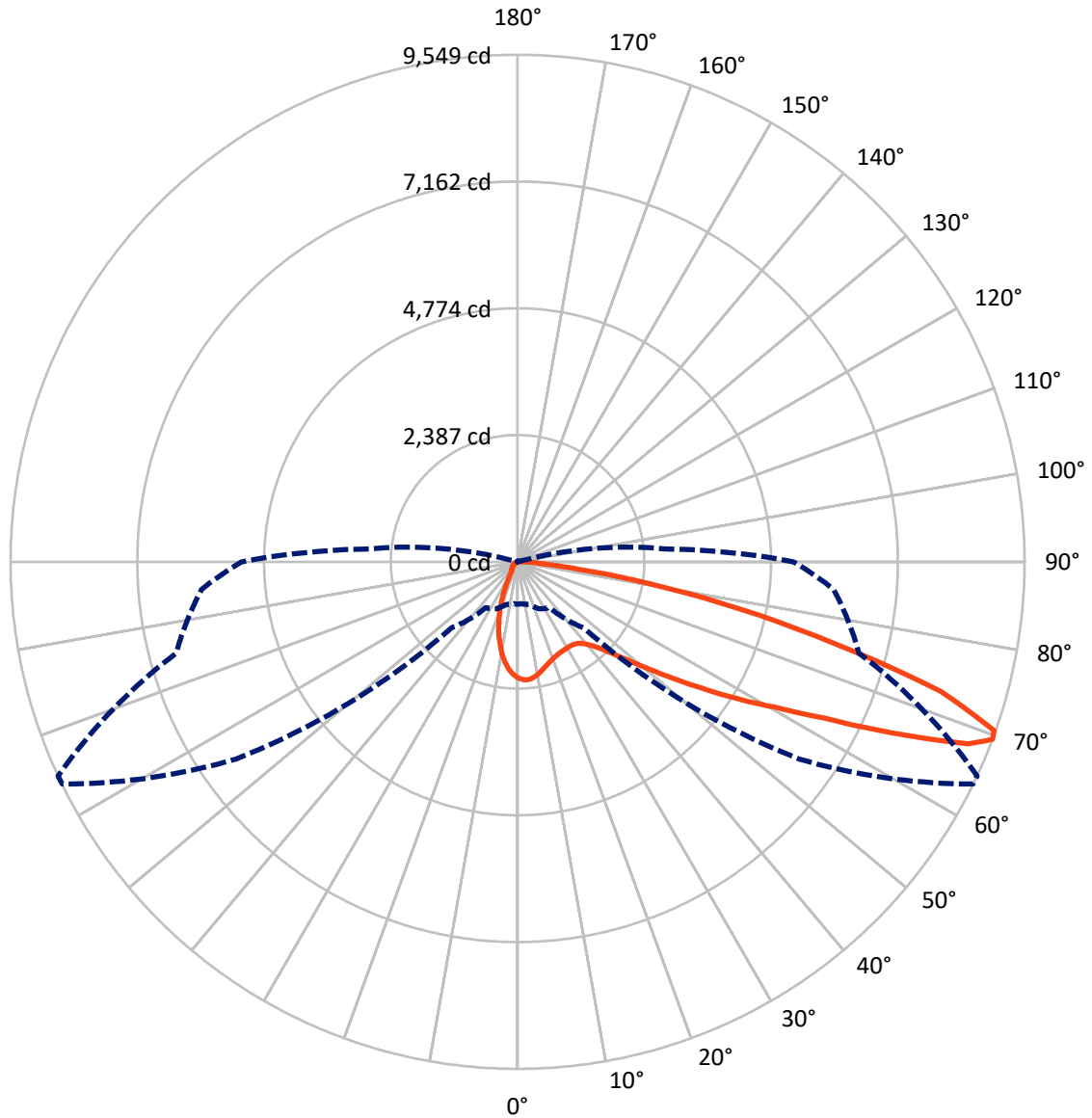
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1021.2	0.0	1021.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	7641.8	0.0	7641.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	8663.0	0.0	8663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.1	2.1
10°-20°	400.7	4.6
20°-30°	555.0	6.4
30°-40°	773.9	8.9
40°-50°	1202.9	13.9
50°-60°	1931.0	22.3
60°-70°	2184.3	25.2
70°-80°	1282.9	14.8
80°-90°	149.2	1.7
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°	8663.0	100.0
0°-180°	8663.0	100.0

**Coefficient of Utilization**

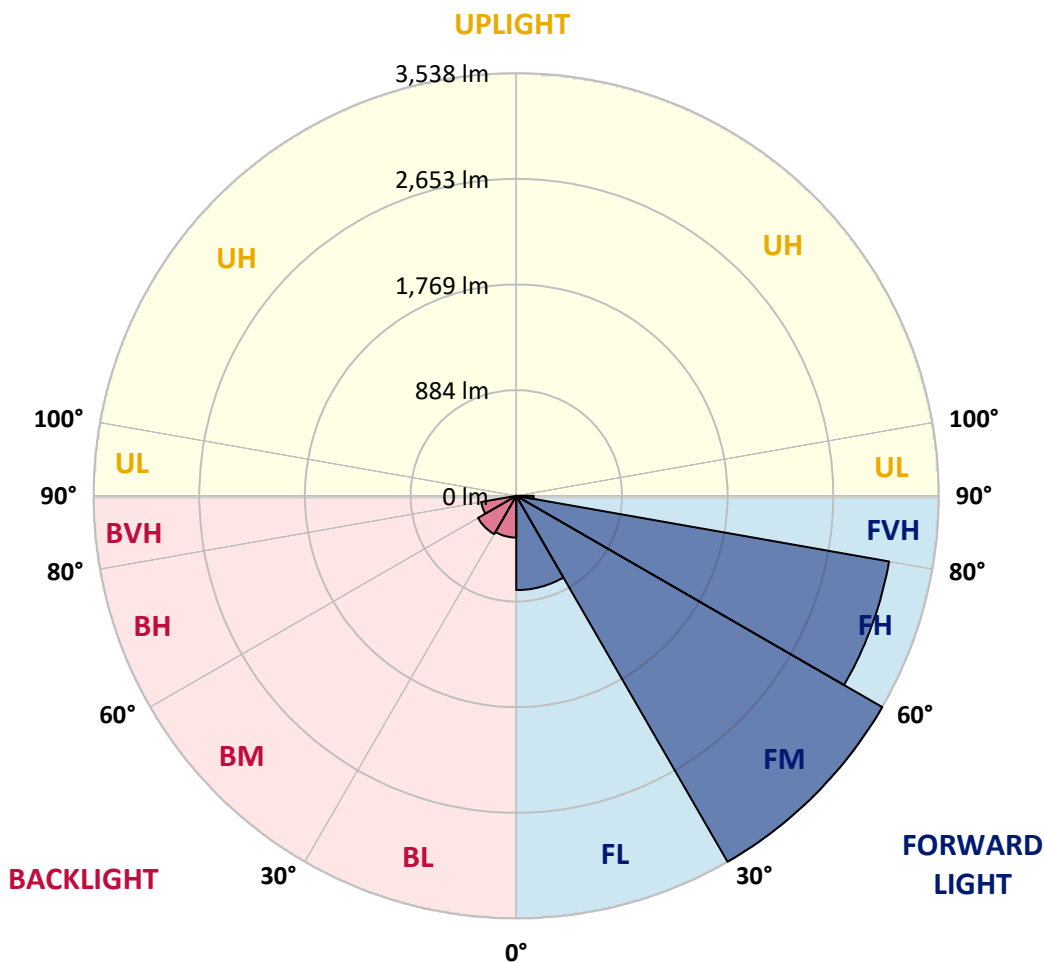


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.4	9.1			
FM (30°-60°)	3537.7	40.8			
FH (60°-80°)	3168.8	36.6			G2/5000
FVH (80°-90°)	145.9	1.7			G2/225
BL (0°-30°)	349.4	4.0	B1/500		
BM (30°-60°)	370.0	4.3	B1/1000		
BH (60°-80°)	298.4	3.4	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2
2.5°	2208.6	2203.1	2207.5	2217.0	2221.8	2221.8	2225.4	2221.0	2222.5	2211.9	2196.5
5°	2070.4	2062.0	2074.1	2100.8	2133.8	2162.0	2203.8	2225.8	2228.0	2228.4	2210.4
7.5°	1921.6	1913.9	1931.8	1963.3	2005.9	2058.3	2131.2	2195.0	2198.7	2233.1	2219.9
10°	1800.6	1795.1	1816.0	1849.7	1899.6	1958.2	2047.7	2136.4	2147.0	2223.2	2218.5
12.5°	1704.5	1700.2	1719.9	1758.8	1809.8	1874.6	1968.1	2071.1	2085.4	2200.9	2211.1
15°	1634.5	1633.8	1650.3	1687.7	1744.1	1804.6	1900.3	2010.6	2027.1	2176.7	2210.0
17.5°	1597.9	1599.0	1611.1	1643.0	1691.4	1751.5	1843.1	1959.7	1977.6	2155.1	2215.5
20°	1594.2	1595.3	1601.9	1619.9	1659.1	1712.2	1796.6	1916.8	1935.5	2138.9	2224.3
22.5°	1626.5	1625.7	1627.6	1625.7	1647.7	1688.1	1765.8	1883.8	1905.4	2128.3	2231.3
25°	1688.4	1687.3	1686.6	1673.0	1658.4	1680.0	1752.9	1865.1	1885.6	2120.6	2235.3
27.5°	1774.6	1773.8	1772.7	1750.4	1706.4	1692.8	1754.4	1858.1	1875.4	2114.4	2234.6
30°	1887.8	1893.0	1891.5	1860.3	1791.8	1732.0	1769.8	1854.5	1869.5	2102.3	2226.9
32.5°	2020.9	2031.2	2039.2	2005.9	1920.1	1809.8	1805.4	1858.5	1869.5	2093.1	2213.0
35°	2159.1	2172.3	2202.0	2190.3	2077.4	1926.7	1866.6	1882.7	1891.9	2098.2	2206.4
37.5°	2295.1	2310.9	2375.4	2409.5	2283.4	2081.4	1961.9	1942.5	1947.2	2129.4	2213.7
40°	2453.1	2476.9	2574.8	2629.8	2529.3	2288.5	2104.5	2045.1	2046.9	2198.0	2247.8
42.5°	2660.6	2685.1	2791.1	2877.2	2806.5	2550.2	2298.0	2202.0	2200.2	2326.3	2328.1
45°	2913.5	2939.2	3048.8	3144.4	3112.5	2860.3	2545.8	2431.1	2428.9	2528.6	2480.2
47.5°	3200.2	3225.4	3323.3	3421.9	3456.4	3222.5	2861.4	2743.8	2738.6	2809.8	2715.2
50°	3446.1	3462.6	3552.8	3685.5	3840.9	3667.5	3254.0	3140.8	3135.3	3183.3	3060.1
52.5°	3535.6	3545.1	3636.7	3822.6	4210.4	4270.2	3769.8	3623.9	3619.9	3640.8	3519.4
55°	3354.5	3371.7	3484.2	3759.9	4410.6	4951.3	4420.8	4222.2	4191.7	4146.6	3999.6
57.5°	2861.1	2888.6	3009.5	3376.1	4317.1	5491.6	5377.6	4898.8	4854.1	4578.5	4390.0
60°	2143.7	2177.4	2277.9	2673.4	3818.2	5684.0	6423.0	5652.9	5552.1	4922.3	4748.9
62.5°	1471.0	1487.9	1556.1	1813.8	2812.0	5368.8	7297.7	6662.8	6478.8	5296.2	5137.1
65°	1123.5	1129.4	1157.3	1246.0	1674.5	4361.1	7645.5	7995.3	7772.7	5743.4	5540.0
67.5°	905.4	900.7	939.2	1066.0	1121.3	2660.6	7239.8	9255.9	9151.8	6341.3	5945.4
69°	798.4	791.8	831.0	978.4	1053.2	1758.8	6472.2	9542.2	9548.8	6656.9	5973.3
70°	718.5	722.9	761.7	926.3	1030.1	1380.5	5739.0	9469.2	9521.3	6774.9	5806.1
72.5°	479.8	491.6	569.6	769.1	990.5	1044.7	3465.2	8125.8	8325.9	6509.2	4981.3
75°	270.5	279.3	372.1	579.9	933.3	994.9	1830.3	5986.5	6180.0	5443.2	3841.3
77.5°	132.7	137.5	210.4	374.3	780.4	947.9	1038.1	4066.4	4287.4	3552.8	2172.7
80°	56.1	58.7	105.2	230.9	557.9	904.7	770.9	2502.6	2530.1	1391.9	578.8
82.5°	21.6	22.4	44.4	144.1	354.5	705.3	644.8	1186.6	1158.0	262.1	132.0
85°	2.6	2.9	16.1	86.5	197.2	362.9	523.8	511.4	473.2	52.1	67.8
87.5°	0.0	0.0	1.1	26.4	58.7	170.1	272.4	212.2	191.3	16.9	35.2
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°	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2
2.5°	2183.7	2180.0	2160.2	2131.6	2104.5	2070.8	2038.5	2019.1	2003.7	1993.4	2005.5
5°	2189.5	2173.4	2113.3	2036.3	1960.8	1875.7	1796.6	1729.5	1703.1	1673.8	1687.0
7.5°	2187.7	2157.3	2049.1	1912.0	1773.5	1630.1	1494.5	1390.0	1335.8	1282.6	1296.2
10°	2178.5	2127.2	1963.3	1760.3	1552.8	1346.8	1154.3	1008.1	926.3	852.3	862.9
12.5°	2158.4	2086.9	1862.2	1586.5	1309.0	1037.4	812.0	624.6	524.2	479.8	485.3
15°	2146.3	2047.7	1755.1	1410.6	1048.8	722.5	496.3	369.1	323.3	308.7	310.5
17.5°	2140.4	2009.9	1644.4	1209.3	782.6	460.0	320.7	283.0	273.1	270.5	271.3
20°	2134.5	1971.8	1530.4	1010.3	539.2	309.4	263.6	252.6	248.9	245.6	246.3
22.5°	2124.6	1935.1	1408.0	808.7	363.6	251.1	237.5	226.9	219.2	215.2	215.9
25°	2112.5	1896.6	1283.0	602.3	265.4	224.0	211.1	196.1	187.0	179.6	180.0
27.5°	2093.1	1849.3	1154.0	438.4	222.9	200.5	183.3	166.8	151.4	143.0	143.0
30°	2066.0	1795.8	1010.6	313.8	199.8	177.4	156.5	136.0	119.5	111.8	111.1
32.5°	2035.9	1740.1	865.8	237.9	181.5	155.8	132.0	110.3	95.7	89.4	89.1
35°	2010.3	1680.0	721.4	199.4	163.1	134.9	108.9	90.5	78.8	73.7	73.3
37.5°	1993.8	1619.9	580.6	178.2	146.6	115.5	91.3	74.8	66.3	62.3	62.0
40°	1991.2	1575.2	452.0	162.0	131.2	98.2	76.2	63.4	55.7	51.3	51.0
42.5°	2024.6	1549.5	346.8	148.5	115.5	83.2	64.9	54.3	46.2	41.8	41.4
45°	2112.2	1557.6	266.9	136.4	99.7	70.4	55.0	45.1	37.8	34.5	33.7
47.5°	2272.0	1613.3	212.2	124.3	84.7	59.8	46.9	37.4	31.2	27.9	27.5
50°	2556.5	1744.1	177.4	111.1	70.7	51.0	38.9	30.4	25.3	22.4	22.0
52.5°	2934.0	1977.3	158.4	98.2	58.7	43.3	31.9	24.2	19.8	17.6	17.2
55°	3350.4	2259.5	145.9	84.3	48.0	35.9	25.3	19.1	15.4	13.6	12.8
57.5°	3757.0	2504.0	134.2	70.7	40.0	29.3	20.2	15.0	12.1	10.3	9.9
60°	4130.5	2728.7	120.6	56.8	32.6	23.1	15.8	11.7	9.5	7.7	7.7
62.5°	4530.4	2902.5	101.9	44.4	26.8	17.6	12.8	10.6	7.7	6.6	6.2
65°	4954.2	3031.5	79.9	34.5	20.9	13.2	10.6	11.0	6.2	4.8	4.4
67.5°	5267.2	3005.9	59.0	27.1	16.1	10.3	10.3	11.7	5.5	3.7	3.3
69°	5198.3	2797.3	49.5	23.5	13.9	8.8	9.5	11.7	5.1	3.3	2.9
70°	4998.5	2566.4	43.6	20.9	12.5	8.1	9.2	11.4	4.8	3.3	2.9
72.5°	4162.8	1932.9	34.1	15.8	9.9	6.6	7.7	9.9	4.8	3.3	2.6
75°	3131.2	1237.2	26.0	11.4	7.3	5.1	5.9	7.3	4.8	2.9	2.6
77.5°	1703.8	446.1	18.7	7.7	5.1	4.0	4.0	5.5	4.4	2.2	1.5
80°	438.1	112.2	11.7	5.1	4.0	2.9	2.6	3.7	2.6	0.4	0.0
82.5°	108.1	25.3	6.2	3.7	2.9	1.1	1.1	1.8	1.1	0.0	0.0
85°	59.4	12.5	4.0	2.6	1.5	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	30.4	3.7	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)