

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: P382989

Luminaire Tested: **GLEON-SA3B-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16138.1 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

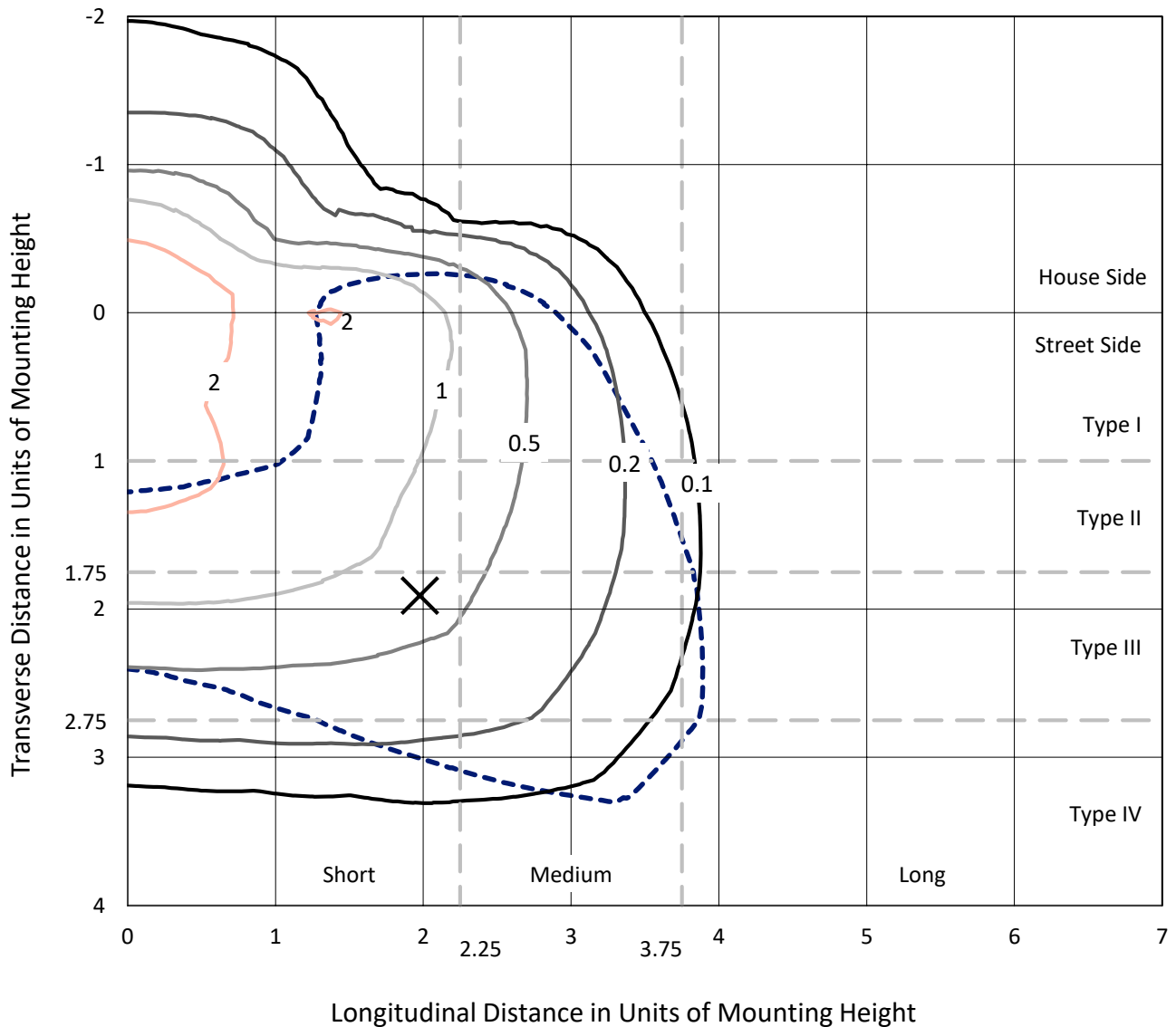
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

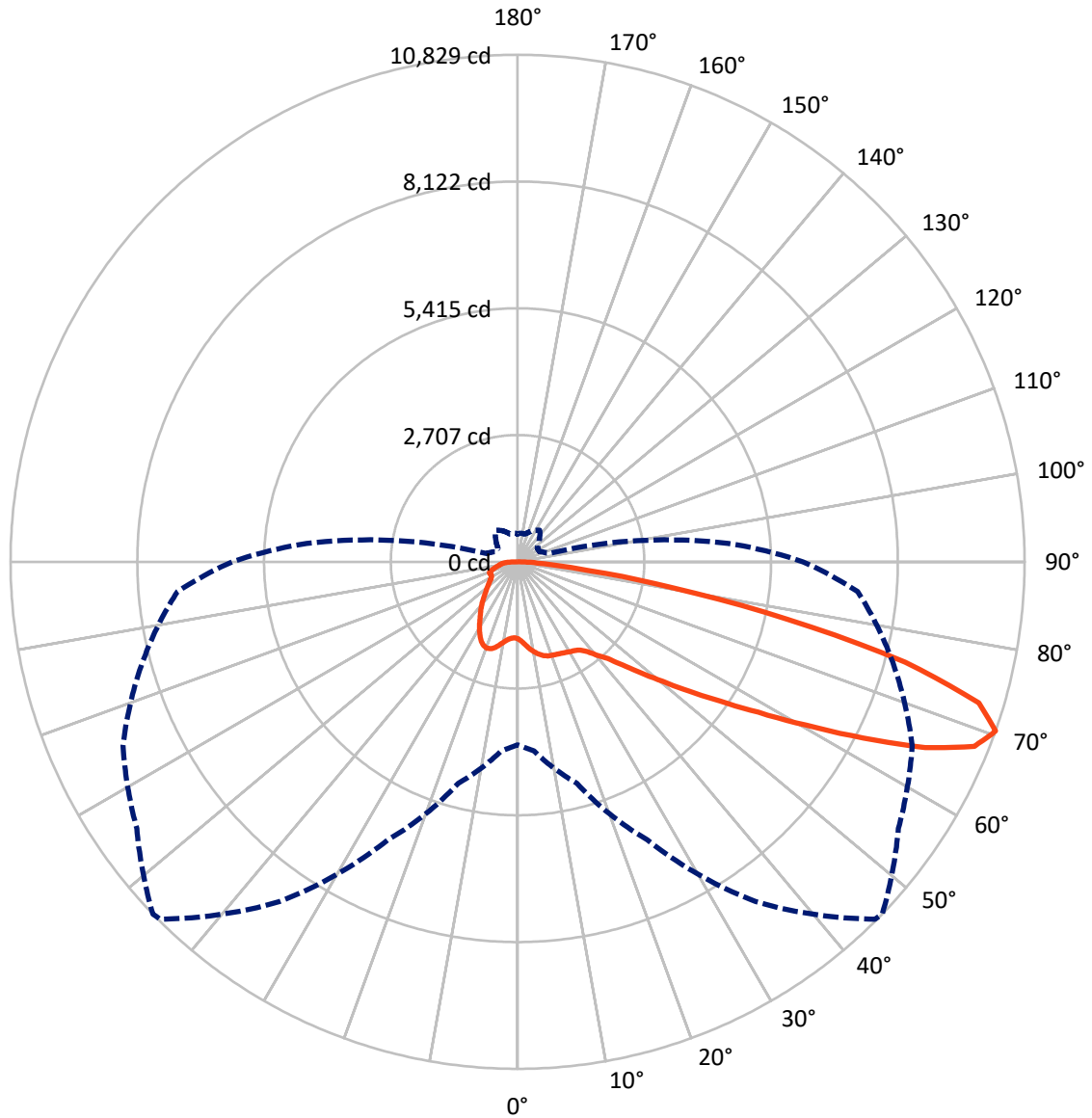
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3698.8	0.0	3698.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	12439.3	0.0	12439.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	16138.1	0.0	16138.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.6	1.0
10°-20°	558.4	3.5
20°-30°	931.1	5.8
30°-40°	1321.3	8.2
40°-50°	1943.6	12.0
50°-60°	3291.4	20.4
60°-70°	4672.1	29.0
70°-80°	2838.3	17.6
80°-90°	414.2	2.6
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°	16138.1	100.0
0°-180°	16138.1	100.0

**Coefficient of Utilization**

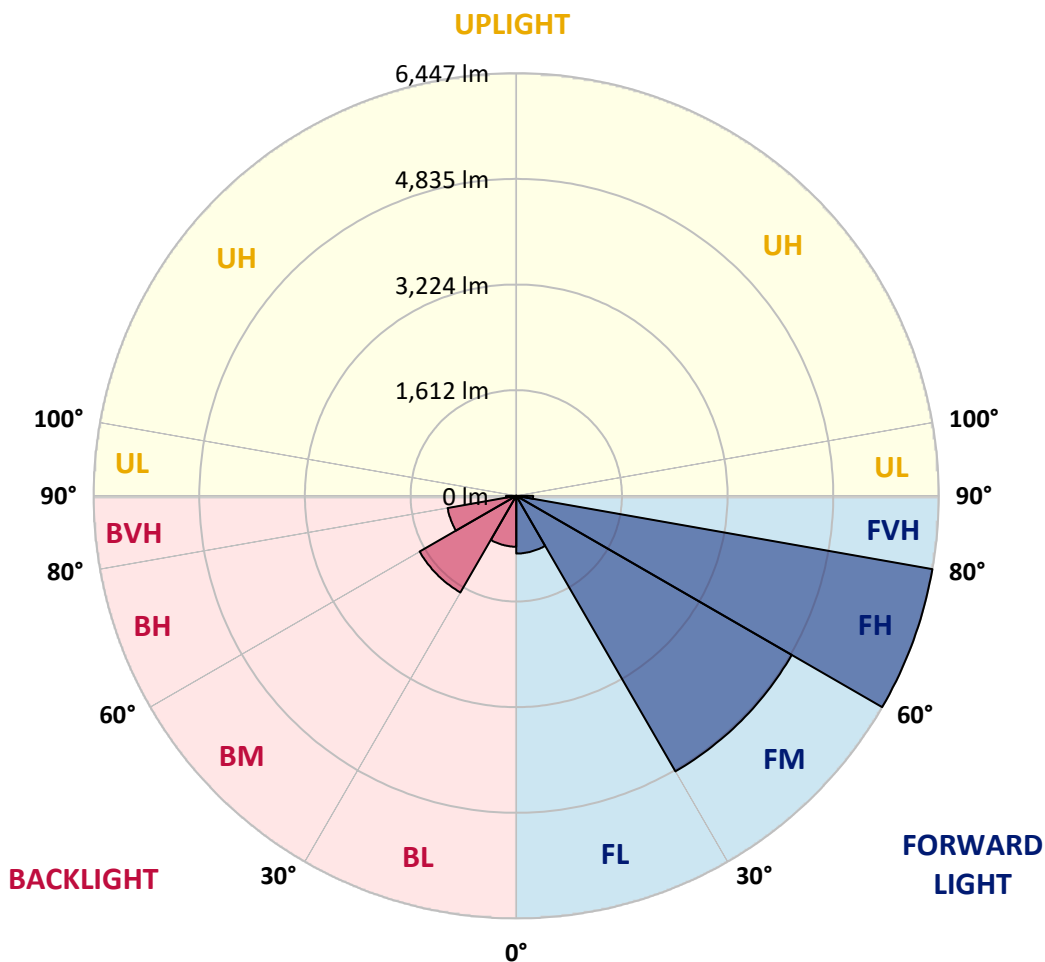


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.6	5.5			
FM (30°-60°)	4853.6	30.1			
FH (60°-80°)	6447.1	39.9			G3/7500
FVH (80°-90°)	258.0	1.6			G3/500
BL (0°-30°)	776.6	4.8	B2/1000		
BM (30°-60°)	1702.7	10.6	B2/2500		
BH (60°-80°)	1063.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	156.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1726.4	1727.6	1729.8	1724.2	1708.7	1704.4	1702.7	1686.7	1676.2	1660.8	1647.4
5°	1864.5	1865.6	1862.3	1846.9	1812.6	1787.2	1785.0	1748.5	1715.4	1680.0	1653.6
7.5°	2008.7	2010.3	1999.8	1970.6	1922.5	1878.4	1875.6	1825.8	1775.6	1722.1	1682.3
10°	2136.2	2129.6	2112.5	2071.7	2014.8	1960.6	1958.4	1906.5	1848.5	1783.9	1730.9
12.5°	2221.3	2215.8	2193.7	2144.0	2081.5	2031.9	2027.4	1979.4	1923.1	1852.4	1788.9
15°	2268.2	2272.1	2242.3	2186.0	2125.2	2083.2	2079.4	2045.1	1994.8	1923.6	1850.7
17.5°	2274.3	2277.6	2248.9	2193.1	2143.4	2114.7	2113.0	2090.4	2054.0	1985.5	1909.3
20°	2239.0	2241.2	2217.5	2171.6	2139.0	2130.2	2129.6	2119.6	2092.6	2031.9	1957.8
22.5°	2187.6	2189.2	2172.2	2139.0	2127.9	2141.8	2145.6	2141.8	2122.4	2065.5	1995.9
25°	2174.9	2173.8	2156.2	2122.4	2131.8	2161.1	2166.0	2167.7	2154.5	2104.7	2044.6
27.5°	2236.2	2232.4	2198.6	2144.5	2150.6	2186.0	2192.6	2208.6	2200.3	2156.7	2099.8
30°	2413.5	2406.8	2337.8	2228.4	2198.6	2216.9	2225.2	2250.5	2252.2	2215.8	2173.2
32.5°	2712.9	2704.6	2580.9	2385.3	2279.9	2248.4	2256.1	2294.2	2314.6	2286.5	2240.7
35°	3091.2	3081.7	2919.4	2652.1	2415.7	2308.6	2314.1	2344.4	2385.3	2345.5	2284.8
37.5°	3485.5	3462.8	3306.5	2965.8	2631.6	2437.2	2437.2	2441.1	2460.4	2377.6	2336.7
40°	3877.6	3854.9	3713.6	3334.8	2911.1	2639.9	2627.2	2541.6	2526.2	2454.9	2441.1
42.5°	4242.1	4235.5	4152.1	3751.7	3239.2	2839.3	2821.7	2676.4	2679.7	2635.5	2636.1
45°	4629.8	4629.8	4561.9	4172.5	3621.4	3159.6	3141.9	2928.2	2961.4	2940.9	2990.1
47.5°	4946.3	4956.2	4946.8	4611.1	4065.9	3566.7	3534.7	3277.3	3370.1	3440.2	3583.2
50°	5269.4	5284.9	5286.5	5092.1	4603.3	4050.5	4014.0	3740.6	3947.7	4148.7	4429.9
52.5°	5738.2	5773.1	5634.5	5572.1	5261.7	4624.9	4589.0	4336.5	4682.3	4964.5	5448.9
55°	6172.9	6142.5	6043.7	6082.4	5966.4	5278.8	5251.7	5030.3	5500.8	5867.5	6496.5
57.5°	6408.2	6406.0	6505.4	6671.1	6726.3	6085.1	6062.4	5847.0	6423.7	6699.2	7480.1
60°	6684.3	6688.2	6934.5	7310.6	7538.2	7089.2	7079.2	6915.7	7320.0	7475.8	8251.7
62.5°	6723.0	6792.6	7216.7	7864.0	8298.1	8262.2	8284.3	7878.4	8122.0	8095.4	8827.7
65°	6278.4	6370.1	7137.8	8031.3	9053.6	9545.2	9565.6	8846.5	8754.3	8625.1	9033.8
67.5°	5367.1	5503.0	6336.9	7667.4	9302.7	10493.4	10522.2	9597.1	9279.0	8804.5	8537.8
70°	3905.8	4056.5	4896.0	6548.5	8858.6	10796.6	10829.2	9929.0	9298.9	8293.7	7288.5
72.5°	2359.3	2477.5	3169.6	4820.9	7476.9	10244.4	10302.4	9508.2	8489.8	7025.1	5382.0
75°	1036.1	1113.4	1532.6	2778.0	5352.8	8476.0	8548.3	8138.5	6898.1	5105.3	3181.1
77.5°	441.3	463.4	628.5	1206.7	3025.9	5791.8	5891.3	5946.4	4680.1	2778.0	1344.2
80°	275.0	283.8	355.7	546.2	1416.0	3253.0	3360.1	3498.7	2324.0	1021.2	469.4
82.5°	167.3	177.3	236.3	330.2	737.3	1474.6	1526.0	1623.7	901.9	441.3	243.0
85°	100.5	107.7	144.7	208.8	419.8	579.9	579.3	640.6	424.7	283.8	128.1
87.5°	48.1	53.6	77.3	108.2	211.6	217.6	203.8	230.8	257.9	186.1	64.6
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°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1643.1	1640.8	1633.7	1628.2	1627.0	1623.7	1621.0	1622.7	1624.8	1625.4	1625.4
5°	1642.5	1636.4	1627.0	1623.1	1628.2	1634.8	1643.1	1654.1	1660.8	1665.7	1669.1
7.5°	1669.1	1657.4	1646.9	1644.7	1654.6	1672.3	1691.1	1714.3	1730.3	1741.3	1743.6
10°	1713.2	1698.9	1688.3	1690.6	1708.2	1733.6	1760.2	1790.0	1814.3	1829.2	1830.3
12.5°	1764.0	1750.2	1740.2	1749.6	1778.9	1809.8	1837.5	1863.4	1885.5	1900.5	1900.5
15°	1822.6	1812.6	1801.1	1822.6	1862.3	1889.9	1901.6	1914.2	1926.3	1937.4	1935.2
17.5°	1878.8	1869.5	1863.4	1888.8	1930.3	1942.9	1935.2	1925.8	1925.8	1931.9	1933.0
20°	1927.5	1919.2	1923.1	1948.0	1969.5	1956.2	1927.5	1897.7	1885.5	1888.8	1892.2
22.5°	1970.0	1966.1	1977.8	1989.3	1973.9	1927.5	1874.5	1834.1	1819.2	1818.1	1819.2
25°	2019.7	2019.1	2033.6	2012.5	1944.0	1858.4	1787.2	1748.0	1739.7	1746.4	1757.4
27.5°	2081.5	2087.7	2094.9	2018.1	1883.3	1754.1	1681.7	1654.6	1662.9	1678.9	1689.5
30°	2160.5	2177.1	2161.7	2004.2	1796.0	1634.8	1565.7	1558.0	1580.6	1603.3	1614.4
32.5°	2237.3	2263.3	2225.7	1968.4	1683.4	1508.3	1454.7	1452.6	1480.1	1502.2	1517.7
35°	2299.2	2350.6	2273.7	1897.1	1553.1	1391.7	1352.5	1337.6	1347.6	1373.6	1391.2
37.5°	2379.8	2465.4	2306.9	1788.3	1411.7	1295.7	1249.9	1215.6	1206.7	1217.3	1226.1
40°	2527.3	2640.5	2322.3	1636.4	1273.6	1199.6	1153.2	1103.0	1068.1	1042.7	1043.2
42.5°	2768.1	2868.6	2312.5	1452.0	1146.0	1105.7	1053.2	995.3	938.9	881.4	877.1
45°	3159.1	3207.7	2282.6	1256.5	1033.9	1007.4	958.2	900.2	825.1	760.0	753.9
47.5°	3784.8	3677.1	2236.2	1085.8	935.0	924.0	878.7	811.8	732.3	679.8	675.5
50°	4638.1	4354.8	2213.5	949.9	847.8	851.1	814.1	743.4	668.3	629.6	625.2
52.5°	5658.8	5144.0	2257.2	845.0	777.7	789.2	761.6	695.3	632.3	602.0	597.6
55°	6717.5	5961.3	2304.2	768.8	711.3	734.0	724.6	670.0	613.1	584.9	581.0
57.5°	7623.8	6571.7	2210.3	707.0	652.3	687.6	695.9	653.9	603.1	577.7	573.3
60°	8194.3	6817.4	1963.9	648.9	605.3	650.6	679.3	649.5	607.0	604.8	601.4
62.5°	8464.9	6795.9	1594.4	603.1	576.1	634.6	691.5	674.3	651.2	671.0	672.7
65°	8343.4	6471.2	1187.4	572.7	555.0	640.6	727.9	721.3	663.8	683.8	686.5
67.5°	7543.7	5696.3	879.3	546.2	531.8	657.8	794.1	736.8	639.0	653.4	644.5
70°	6097.3	4516.0	678.2	516.4	508.1	655.5	824.0	727.4	611.9	615.3	591.5
72.5°	4204.5	3079.5	551.8	488.8	473.9	597.6	803.0	704.2	589.3	563.9	532.4
75°	2286.5	1653.0	468.8	460.1	413.7	524.6	764.3	687.6	568.9	535.2	517.5
77.5°	899.7	685.9	407.0	420.9	361.7	463.4	721.3	656.1	540.7	496.5	487.7
80°	367.3	350.2	337.4	364.0	311.0	405.4	669.4	619.1	507.0	460.7	443.0
82.5°	208.2	217.6	262.3	287.2	252.4	373.4	644.5	589.3	466.7	412.6	391.5
85°	106.6	127.6	182.8	206.0	185.6	317.6	593.7	515.8	374.5	315.9	317.6
87.5°	51.3	71.3	115.4	129.2	120.4	229.7	443.5	373.9	291.6	230.8	223.7
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)