

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: P522719

Luminaire Tested: **GALN-SA3D-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16989 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

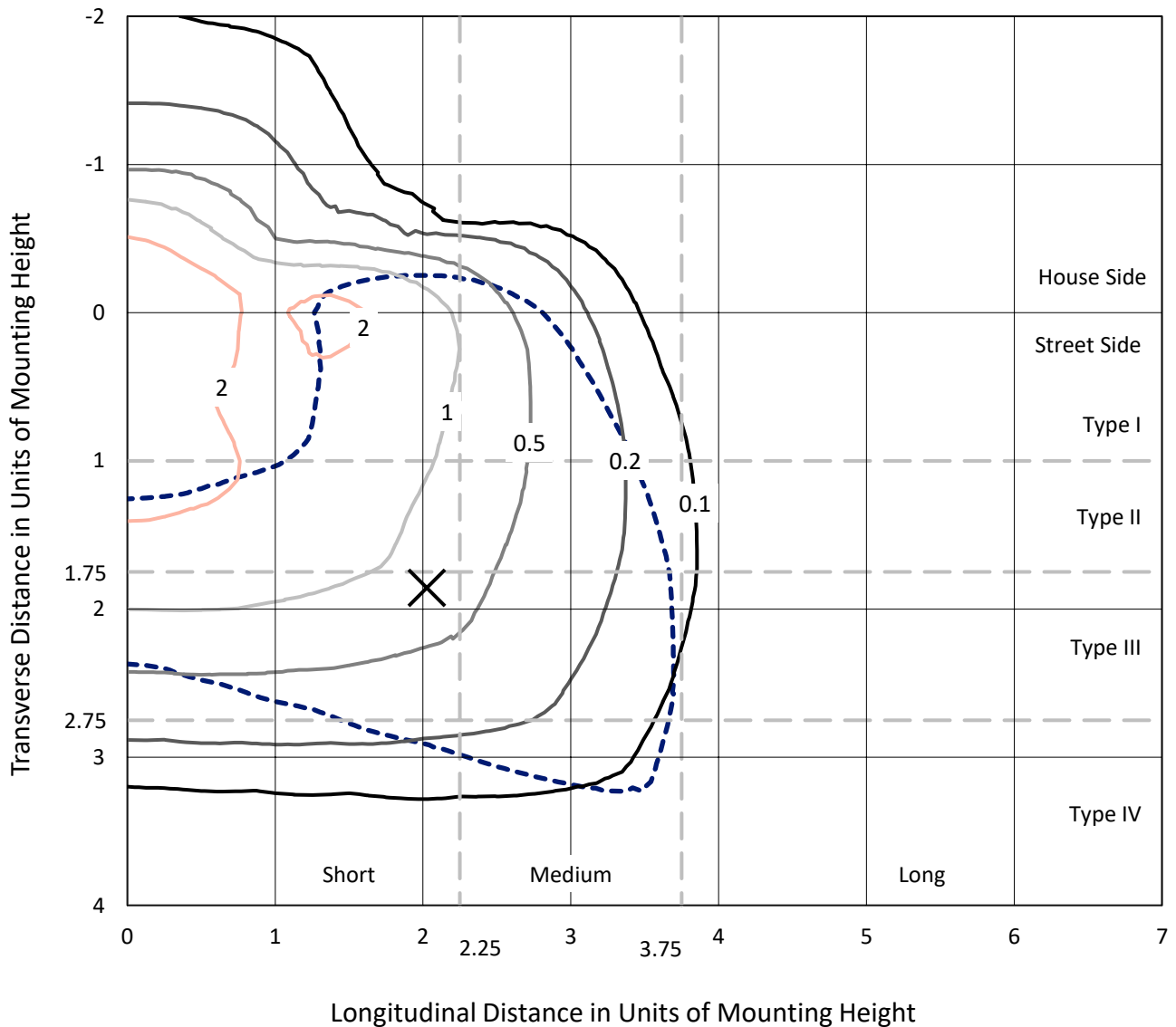
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

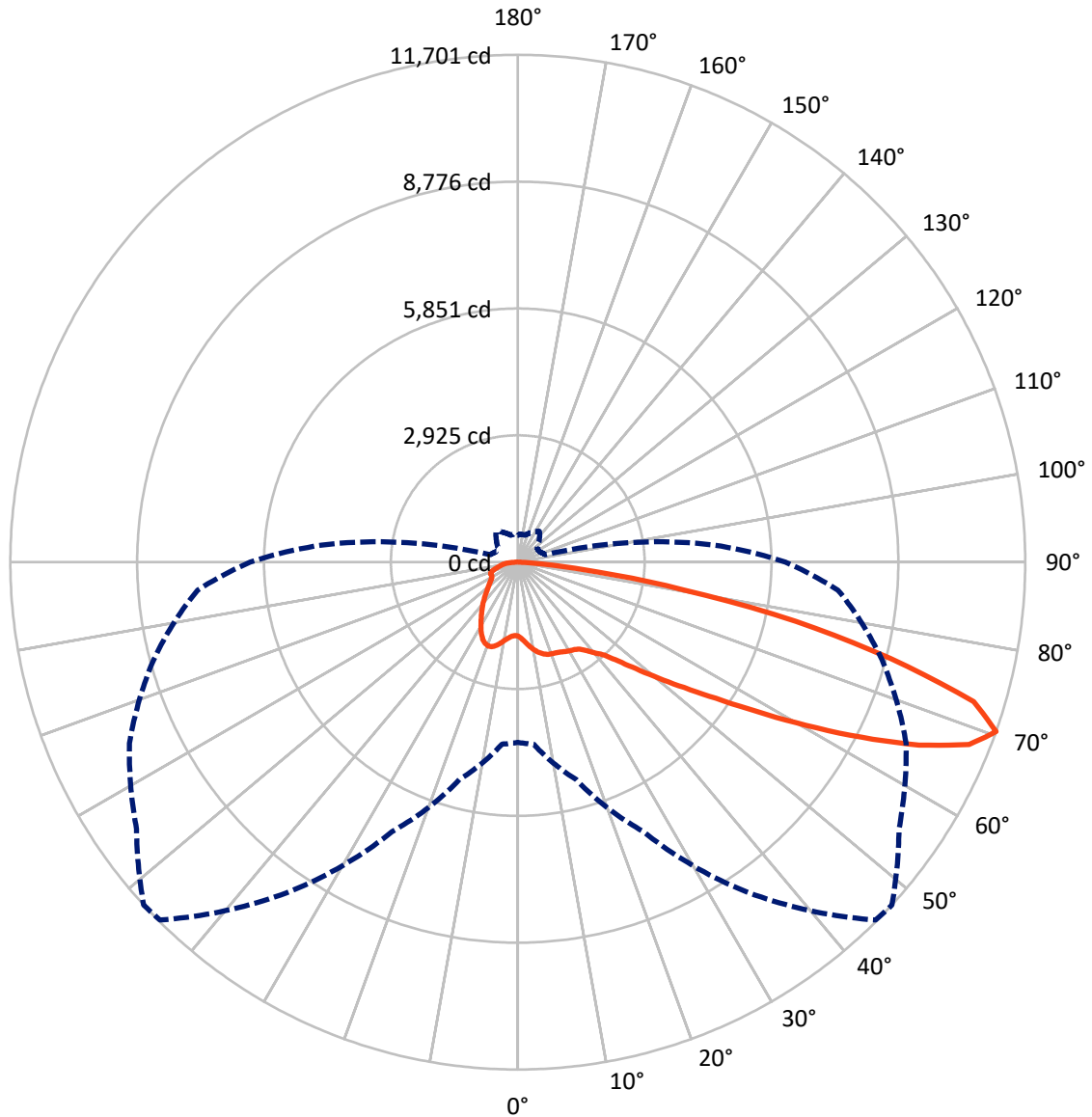
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3846.6	0.0	3846.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	13142.3	0.0	13142.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	16989.0	0.0	16989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	1.0
10°-20°	587.7	3.5
20°-30°	977.4	5.8
30°-40°	1385.3	8.2
40°-50°	2044.9	12.0
50°-60°	3541.9	20.8
60°-70°	5003.1	29.4
70°-80°	2876.0	16.9
80°-90°	396.8	2.3
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°	16989.0	100.0
0°-180°	16989.0	100.0

**Coefficient of Utilization**



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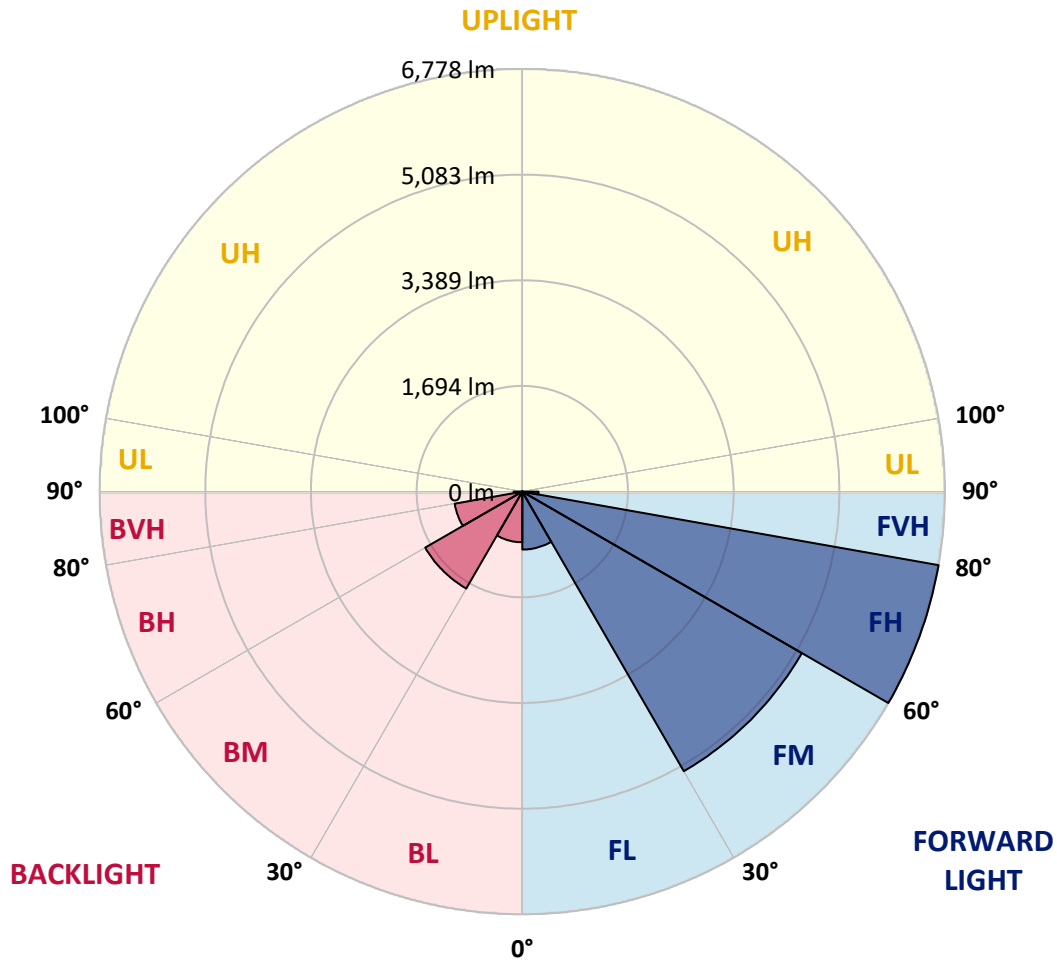
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.0	5.5			
FM (30°-60°)	5176.2	30.5			
FH (60°-80°)	6777.9	39.9			G3/7500
FVH (80°-90°)	259.2	1.5			G3/500
BL (0°-30°)	811.9	4.8	B2/1000		
BM (30°-60°)	1795.9	10.6	B2/2500		
BH (60°-80°)	1101.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.6	0.8			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°	47.5°	55°	65°	75°	85°
0°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1815.5	1809.1	1808.2	1794.6	1787.3	1773.7	1768.2	1755.5	1740.0	1724.6	1710.0
5°	1958.2	1958.2	1951.9	1932.8	1902.8	1871.9	1858.2	1833.7	1790.0	1754.6	1724.6
7.5°	2104.6	2106.4	2093.7	2065.5	2022.8	1972.8	1960.0	1923.7	1861.9	1810.0	1765.5
10°	2231.0	2231.0	2213.7	2175.5	2121.9	2067.3	2054.6	2013.7	1944.6	1880.0	1821.9
12.5°	2327.3	2327.3	2304.6	2254.6	2196.4	2147.3	2132.8	2093.7	2029.1	1957.3	1883.7
15°	2390.1	2385.5	2360.1	2303.7	2247.3	2204.6	2194.6	2161.9	2102.8	2030.0	1947.3
17.5°	2392.8	2391.0	2366.4	2319.1	2270.0	2241.0	2234.6	2212.8	2166.4	2097.3	2010.0
20°	2340.1	2343.7	2327.3	2293.7	2270.0	2257.3	2254.6	2247.3	2214.6	2150.0	2062.8
22.5°	2283.7	2290.0	2274.6	2256.4	2254.6	2267.3	2269.1	2271.0	2250.0	2187.3	2107.3
25°	2270.0	2274.6	2259.1	2242.8	2252.8	2286.4	2293.7	2301.0	2284.6	2231.9	2160.0
27.5°	2339.1	2335.5	2305.5	2270.0	2276.4	2321.9	2331.9	2340.1	2331.9	2286.4	2225.5
30°	2534.6	2522.8	2462.8	2359.1	2326.4	2358.2	2368.2	2391.0	2391.0	2357.3	2296.4
32.5°	2861.9	2839.2	2729.1	2525.5	2411.9	2392.8	2402.8	2440.1	2459.1	2432.8	2366.4
35°	3259.2	3235.5	3078.2	2804.6	2568.2	2461.9	2459.1	2501.0	2551.9	2492.8	2406.4
37.5°	3658.3	3633.7	3444.6	3137.3	2796.4	2607.3	2591.0	2605.5	2627.3	2519.1	2461.9
40°	4057.4	4028.3	3862.8	3509.2	3075.5	2800.1	2757.3	2691.9	2682.8	2605.5	2569.1
42.5°	4452.8	4426.5	4342.8	3926.4	3410.1	2988.2	2922.8	2810.1	2844.6	2798.2	2766.4
45°	4851.9	4853.7	4764.6	4394.6	3813.7	3335.5	3247.3	3071.0	3152.8	3135.5	3153.7
47.5°	5205.6	5201.0	5169.2	4849.2	4314.6	3782.8	3669.2	3464.6	3604.6	3668.3	3807.4
50°	5548.3	5545.6	5547.4	5364.7	4896.5	4314.6	4189.2	3974.6	4290.1	4511.0	4760.1
52.5°	6039.2	6054.7	5944.7	5896.5	5603.8	4942.8	4804.6	4582.8	5100.1	5448.3	5934.7
55°	6532.0	6519.2	6432.9	6482.9	6343.8	5686.5	5541.9	5365.6	6001.9	6382.9	7113.8
57.5°	6822.0	6826.5	6914.7	7159.2	7257.4	6613.8	6482.9	6346.5	7015.6	7285.6	8162.9
60°	7082.9	7103.8	7357.4	7819.3	8085.6	7752.9	7636.5	7503.8	7945.6	8052.9	9073.8
62.5°	7164.7	7229.2	7672.0	8362.9	8892.9	9038.4	8893.8	8601.1	8831.1	8789.3	9691.1
65°	6756.5	6844.7	7638.3	8566.5	9613.8	10258.4	10166.6	9622.9	9585.7	9333.8	9792.0
67.5°	5681.9	5770.1	6789.2	8139.3	9912.0	11314.8	11223.0	10368.4	10043.9	9384.7	9028.4
70°	4157.4	4212.8	5187.4	6852.9	9312.9	11669.3	11701.2	10732.0	9880.2	8692.9	7412.9
72.5°	2395.5	2518.2	3201.0	4821.0	7608.3	10773.0	10993.9	9975.7	8845.6	7252.0	5182.8
75°	1030.0	1032.7	1480.0	2659.1	5152.8	8659.3	8872.9	8269.3	6946.5	5014.7	2767.3
77.5°	490.0	499.1	650.9	1187.3	2836.4	5982.9	6559.2	5841.9	4442.8	2409.1	1045.5
80°	318.2	324.6	398.2	589.1	1390.9	3469.2	3871.0	3370.1	1960.0	860.9	450.9
82.5°	192.7	194.5	266.4	360.0	765.5	1570.9	1851.9	1462.8	836.4	515.5	265.5
85°	117.3	118.2	161.8	222.7	464.6	542.7	557.3	552.7	490.9	337.3	141.8
87.5°	56.4	58.2	83.6	105.5	182.7	168.2	159.1	184.5	231.8	181.8	60.9
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°	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1703.7	1700.9	1694.6	1691.9	1690.0	1690.9	1690.0	1690.0	1690.9	1690.9	1690.9
5°	1711.9	1707.3	1697.3	1697.3	1702.8	1715.5	1727.3	1736.4	1746.4	1745.5	1745.5
7.5°	1747.3	1739.1	1727.3	1730.9	1744.6	1764.6	1785.5	1805.5	1825.5	1827.3	1826.4
10°	1799.1	1790.9	1778.2	1782.8	1804.6	1834.6	1860.9	1890.0	1911.9	1918.2	1916.4
12.5°	1858.2	1841.9	1830.9	1843.7	1878.2	1918.2	1943.7	1965.5	1981.0	1990.0	1986.4
15°	1918.2	1902.8	1890.0	1916.4	1958.2	1995.5	2008.2	2011.9	2014.6	2023.7	2021.9
17.5°	1976.4	1955.5	1951.0	1985.5	2025.5	2041.9	2034.6	2019.1	2007.3	2014.6	2013.7
20°	2028.2	2011.9	2010.0	2044.6	2060.0	2044.6	2013.7	1986.4	1965.5	1967.3	1966.4
22.5°	2077.3	2064.6	2066.4	2081.0	2056.4	2003.7	1952.8	1915.5	1892.8	1897.3	1900.0
25°	2131.9	2119.1	2123.7	2100.0	2019.1	1927.3	1853.7	1821.9	1812.8	1821.9	1828.2
27.5°	2202.8	2194.6	2191.9	2101.0	1952.8	1814.6	1730.9	1719.1	1727.3	1747.3	1757.3
30°	2279.1	2279.1	2264.6	2085.5	1861.9	1679.1	1606.4	1608.2	1636.4	1664.6	1674.6
32.5°	2352.8	2368.2	2322.8	2043.7	1744.6	1547.3	1491.9	1493.7	1518.2	1552.8	1561.9
35°	2413.7	2458.2	2372.8	1967.3	1606.4	1436.4	1394.6	1370.0	1370.9	1397.3	1404.6
37.5°	2497.3	2580.1	2401.9	1853.7	1459.1	1341.8	1294.6	1251.8	1223.7	1212.8	1212.8
40°	2642.8	2764.6	2409.1	1685.5	1320.0	1251.8	1184.6	1133.7	1079.1	1030.0	1020.9
42.5°	2889.2	3042.8	2394.6	1491.9	1194.6	1152.8	1087.3	1024.6	949.1	880.0	874.6
45°	3325.5	3404.6	2355.5	1290.9	1082.8	1057.3	993.7	925.5	845.5	783.7	779.1
47.5°	4024.6	3912.8	2303.7	1112.8	980.9	973.7	924.6	845.5	765.5	722.7	718.2
50°	5045.6	4712.8	2296.4	983.7	899.1	902.7	862.7	790.0	720.0	684.6	679.1
52.5°	6274.7	5679.2	2344.6	892.7	827.3	840.9	820.9	753.7	691.8	661.8	656.4
55°	7467.4	6548.3	2373.7	821.8	760.0	785.5	788.2	731.8	675.5	645.5	641.8
57.5°	8435.6	7202.9	2244.6	757.3	701.8	740.9	760.9	719.1	667.3	644.6	640.9
60°	9109.3	7512.0	1877.3	700.0	659.1	705.5	750.9	720.0	687.3	690.0	691.8
62.5°	9323.8	7374.7	1408.2	657.3	630.0	693.7	767.3	757.3	723.7	744.6	748.2
65°	8968.4	6807.4	1020.9	623.6	604.6	701.8	816.4	784.6	710.9	726.4	726.4
67.5°	7778.3	5864.7	794.6	592.7	575.5	717.3	865.5	781.8	680.9	699.1	682.7
70°	6170.1	4536.5	661.8	558.2	544.6	694.6	870.0	753.7	645.5	649.1	618.2
72.5°	4094.6	2982.8	569.1	525.5	497.3	624.6	832.7	717.3	610.9	590.0	559.1
75°	2006.4	1487.3	496.4	484.6	435.5	543.6	781.8	682.7	573.6	540.9	523.6
77.5°	777.3	632.7	423.6	432.7	379.1	479.1	714.6	633.6	524.6	480.0	466.4
80°	377.3	359.1	347.3	360.9	311.8	408.2	652.7	590.9	479.1	430.0	410.0
82.5°	234.6	221.8	266.4	280.9	240.0	372.7	619.1	554.6	421.8	356.4	340.0
85°	119.1	127.3	178.2	191.8	171.8	296.4	510.0	416.4	304.6	252.7	254.6
87.5°	45.5	60.9	93.6	100.9	91.8	156.4	280.9	242.7	195.5	132.7	122.7
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)