

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: P522696

Luminaire Tested: **GALN-SA3B-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522696  
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-SA3B-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 15481 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

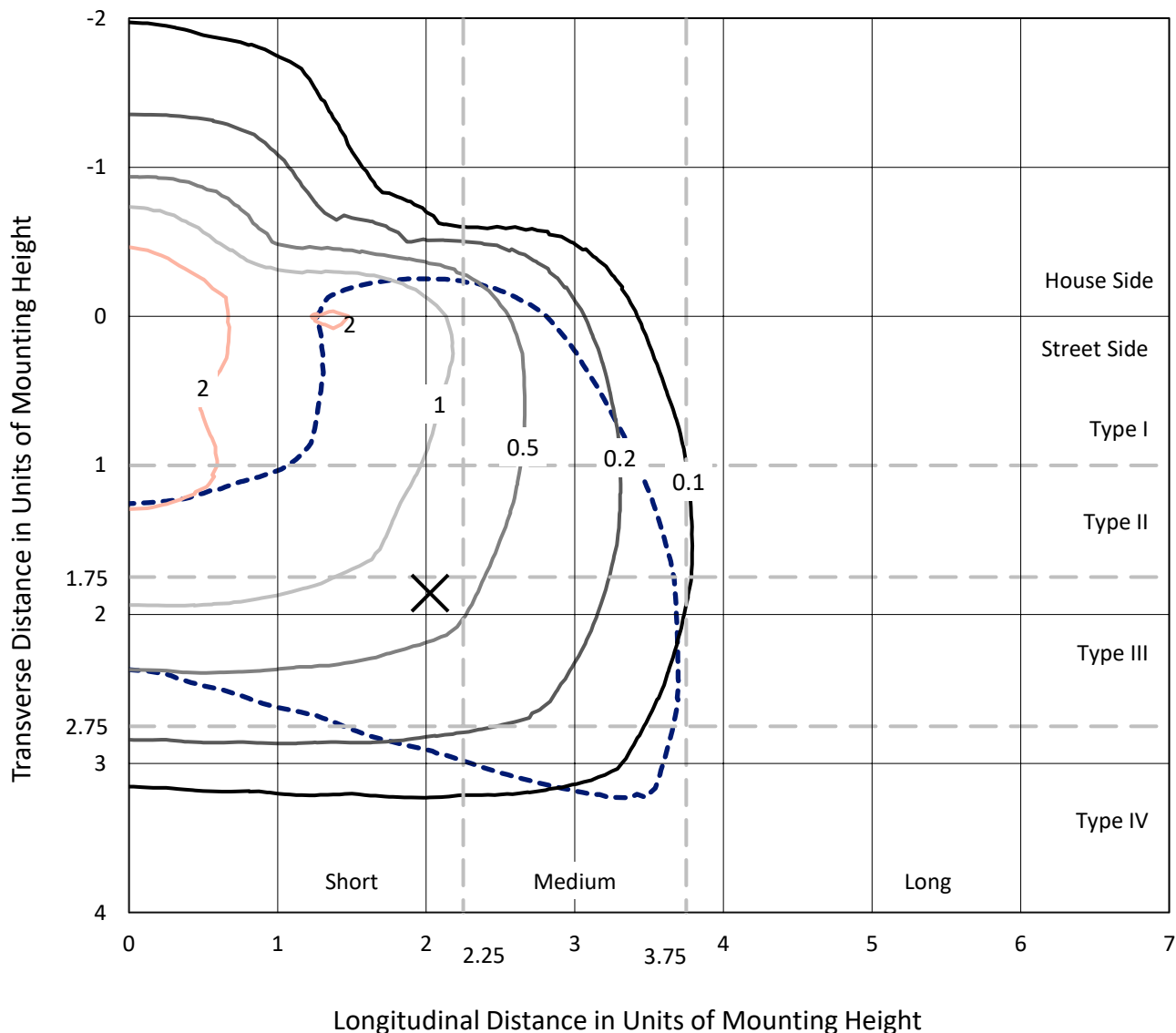
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

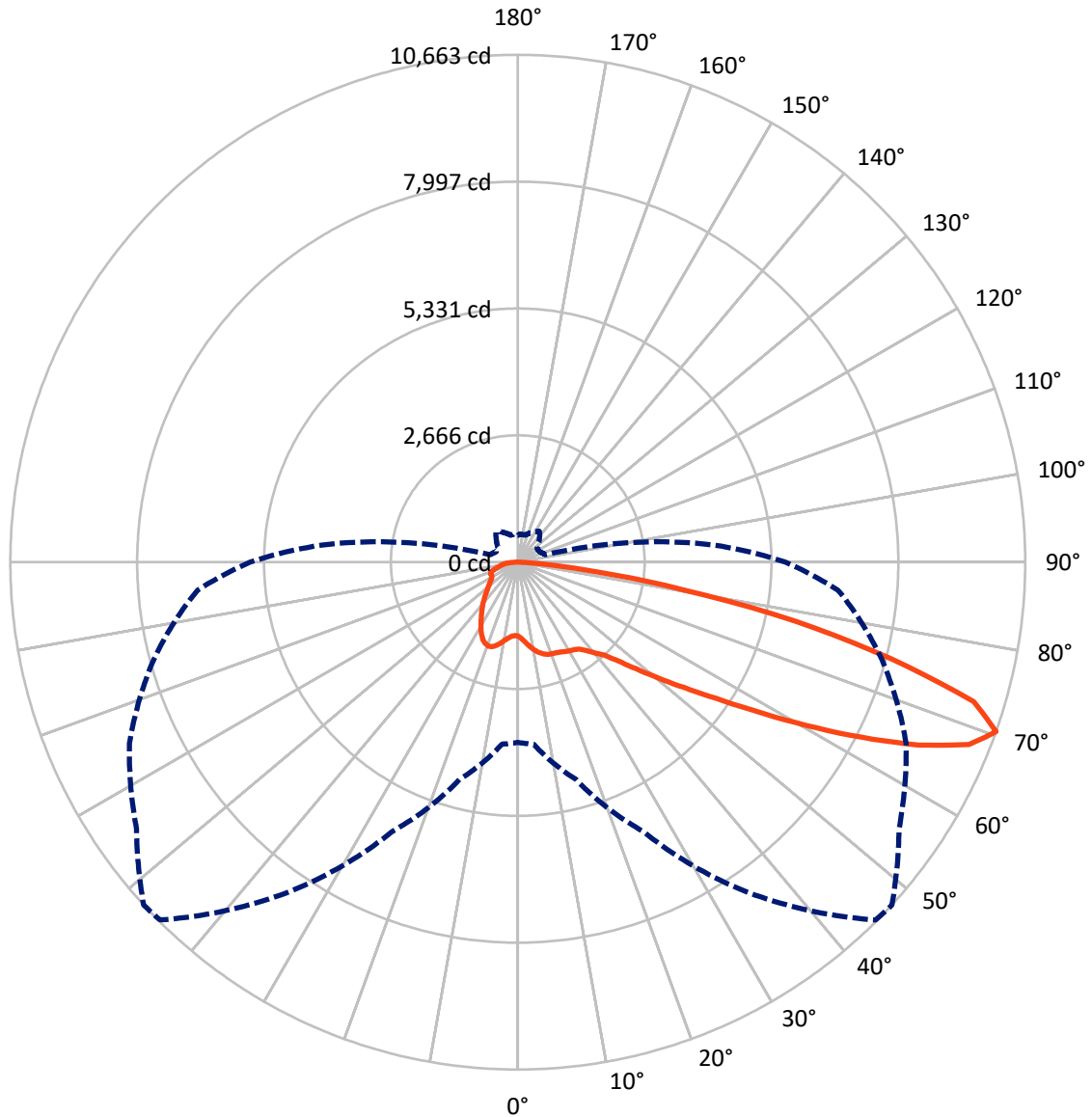
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3505.2	0.0	3505.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	11975.8	0.0	11975.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15481.0	0.0	15481.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	1.0
10°-20°	535.6	3.5
20°-30°	890.6	5.8
30°-40°	1262.3	8.2
40°-50°	1863.4	12.0
50°-60°	3227.5	20.8
60°-70°	4559.0	29.4
70°-80°	2620.8	16.9
80°-90°	361.6	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°	15481.0	100.0
0°-180°	15481.0	100.0

**Coefficient of Utilization**



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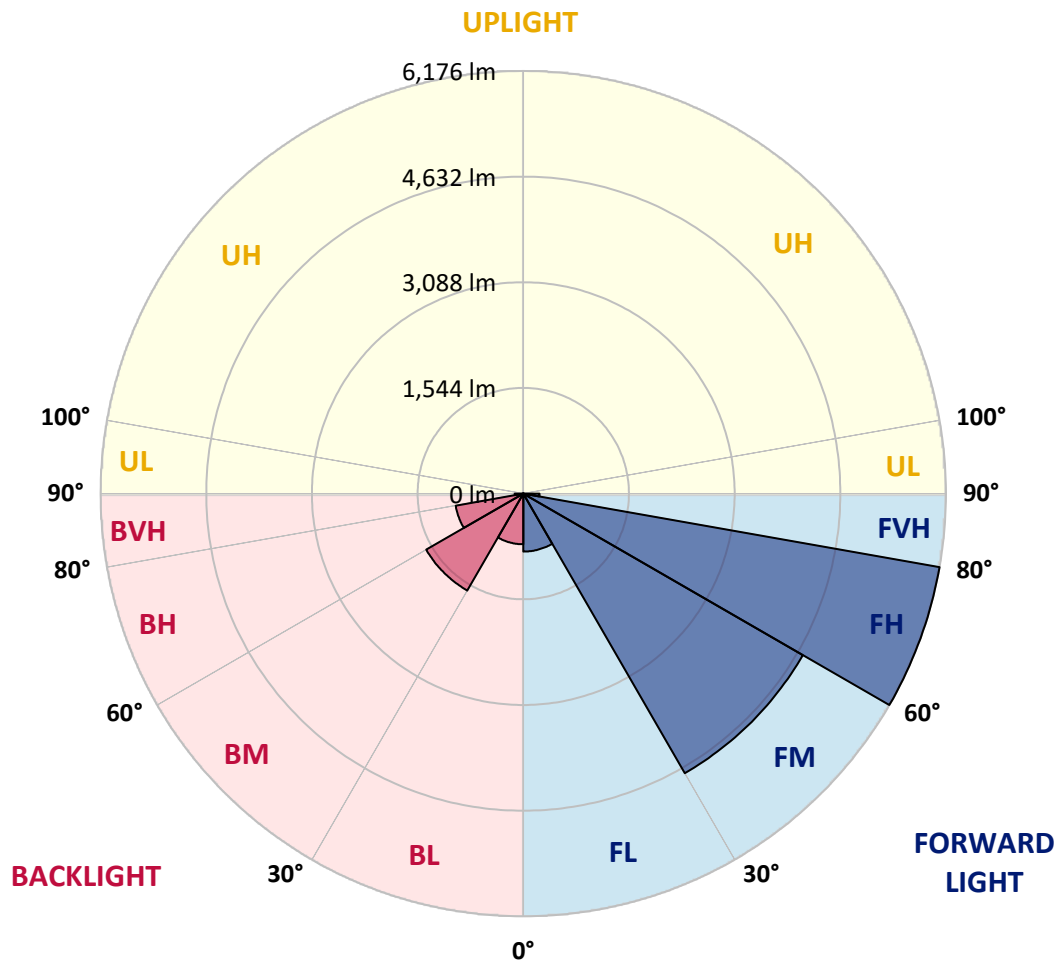
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.6	5.5			
FM	(30°-60°)	4716.8	30.5			
FH	(60°-80°)	6176.3	39.9			G3/7500
FVH	(80°-90°)	236.2	1.5			G3/500
BL	(0°-30°)	739.8	4.8	B2/1000		
BM	(30°-60°)	1636.5	10.6	B2/2500		
BH	(60°-80°)	1003.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	125.4	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°	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1
2.5°	1654.3	1648.5	1647.7	1635.3	1628.7	1616.2	1611.3	1599.7	1585.6	1571.5	1558.2
5°	1784.4	1784.4	1778.6	1761.2	1733.9	1705.7	1693.3	1670.9	1631.1	1598.8	1571.5
7.5°	1917.8	1919.4	1907.8	1882.2	1843.2	1797.7	1786.1	1752.9	1696.6	1649.4	1608.8
10°	2032.9	2032.9	2017.2	1982.4	1933.5	1883.8	1872.2	1834.9	1772.0	1713.2	1660.1
12.5°	2120.7	2120.7	2100.0	2054.5	2001.5	1956.7	1943.5	1907.8	1849.0	1783.6	1716.5
15°	2177.9	2173.8	2150.6	2099.2	2047.8	2008.9	1999.8	1970.0	1916.1	1849.9	1774.5
17.5°	2180.4	2178.7	2156.4	2113.3	2068.6	2042.0	2036.2	2016.4	1974.1	1911.2	1831.6
20°	2132.3	2135.7	2120.7	2090.1	2068.6	2057.0	2054.5	2047.8	2018.0	1959.2	1879.7
22.5°	2081.0	2086.8	2072.7	2056.1	2054.5	2066.1	2067.7	2069.4	2050.3	1993.2	1920.3
25°	2068.6	2072.7	2058.6	2043.7	2052.8	2083.5	2090.1	2096.7	2081.8	2033.8	1968.3
27.5°	2131.5	2128.2	2100.9	2068.6	2074.4	2115.8	2124.9	2132.3	2124.9	2083.5	2028.0
30°	2309.6	2298.9	2244.2	2149.7	2119.9	2148.9	2158.0	2178.7	2178.7	2148.1	2092.6
32.5°	2607.8	2587.1	2486.9	2301.3	2197.8	2180.4	2189.5	2223.5	2240.9	2216.8	2156.4
35°	2969.9	2948.3	2805.0	2555.7	2340.3	2243.3	2240.9	2279.0	2325.4	2271.5	2192.8
37.5°	3333.5	3311.2	3138.9	2858.9	2548.2	2375.9	2361.0	2374.2	2394.1	2295.5	2243.3
40°	3697.2	3670.7	3519.9	3197.7	2802.5	2551.5	2512.6	2452.9	2444.7	2374.2	2341.1
42.5°	4057.6	4033.6	3957.3	3577.9	3107.4	2723.0	2663.4	2560.6	2592.1	2549.9	2520.9
45°	4421.2	4422.9	4341.7	4004.6	3475.2	3039.5	2959.1	2798.4	2872.9	2857.2	2873.8
47.5°	4743.5	4739.4	4710.4	4418.8	3931.7	3447.0	3343.5	3157.1	3284.7	3342.7	3469.4
50°	5055.8	5053.3	5055.0	4888.5	4461.8	3931.7	3817.3	3621.8	3909.3	4110.6	4337.6
52.5°	5503.2	5517.2	5417.0	5373.1	5106.3	4504.1	4378.2	4176.0	4647.4	4964.7	5407.9
55°	5952.2	5940.6	5861.9	5907.4	5780.7	5181.7	5050.0	4889.3	5469.2	5816.3	6482.3
57.5°	6216.4	6220.6	6300.9	6523.8	6613.2	6026.7	5907.4	5783.2	6392.9	6638.9	7438.3
60°	6454.2	6473.2	6704.4	7125.2	7367.9	7064.7	6958.7	6837.7	7240.3	7338.1	8268.4
62.5°	6528.7	6587.6	6991.0	7620.6	8103.6	8236.1	8104.4	7837.6	8047.2	8009.1	8830.9
65°	6156.8	6237.1	6960.3	7806.2	8760.5	9347.8	9264.2	8768.8	8734.8	8505.3	8922.9
67.5°	5177.6	5257.9	6186.6	7416.8	9032.2	10310.5	10226.8	9448.1	9152.3	8551.7	8227.0
70°	3788.3	3838.9	4726.9	6244.6	8486.3	10633.5	10662.5	9779.4	9003.2	7921.3	6754.9
72.5°	2182.9	2294.7	2916.8	4393.1	6933.0	9816.7	10018.0	9090.2	8060.5	6608.3	4722.8
75°	938.6	941.1	1348.7	2423.1	4695.5	7890.7	8085.3	7535.3	6329.9	4569.5	2521.7
77.5°	446.5	454.8	593.1	1081.9	2584.7	5451.8	5977.0	5323.4	4048.5	2195.3	952.7
80°	289.9	295.7	362.8	536.8	1267.5	3161.2	3527.4	3070.9	1786.1	784.5	410.9
82.5°	175.6	177.3	242.7	328.1	697.5	1431.5	1687.5	1332.9	762.1	469.7	241.9
85°	106.9	107.7	147.5	203.0	423.3	494.6	507.8	503.7	447.3	307.3	129.2
87.5°	51.4	53.0	76.2	96.1	166.5	153.3	145.0	168.2	211.2	165.7	55.5
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°	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1	1554.1
2.5°	1552.4	1550.0	1544.2	1541.7	1540.0	1540.9	1540.0	1540.0	1540.9	1540.9	1540.9
5°	1559.9	1555.8	1546.7	1546.7	1551.6	1563.2	1574.0	1582.3	1591.4	1590.6	1590.6
7.5°	1592.2	1584.8	1574.0	1577.3	1589.7	1608.0	1627.0	1645.2	1663.5	1665.1	1664.3
10°	1639.4	1632.0	1620.4	1624.5	1644.4	1671.7	1695.8	1722.3	1742.2	1748.0	1746.3
12.5°	1693.3	1678.4	1668.4	1680.0	1711.5	1748.0	1771.2	1791.0	1805.1	1813.4	1810.1
15°	1748.0	1733.9	1722.3	1746.3	1784.4	1818.4	1830.0	1833.3	1835.8	1844.1	1842.4
17.5°	1801.0	1781.9	1777.8	1809.3	1845.7	1860.6	1854.0	1839.9	1829.1	1835.8	1834.9
20°	1848.2	1833.3	1831.6	1863.1	1877.2	1863.1	1834.9	1810.1	1791.0	1792.7	1791.9
22.5°	1892.9	1881.3	1883.0	1896.2	1873.9	1825.8	1779.4	1745.5	1724.8	1728.9	1731.4
25°	1942.6	1931.0	1935.2	1913.6	1839.9	1756.2	1689.1	1660.1	1651.9	1660.1	1665.9
27.5°	2007.2	1999.8	1997.3	1914.5	1779.4	1653.5	1577.3	1566.5	1574.0	1592.2	1601.3
30°	2076.8	2076.8	2063.6	1900.4	1696.6	1530.1	1463.8	1465.5	1491.1	1516.8	1525.9
32.5°	2143.9	2158.0	2116.6	1862.3	1589.7	1410.0	1359.4	1361.1	1383.5	1414.9	1423.2
35°	2199.4	2240.0	2162.2	1792.7	1463.8	1308.9	1270.8	1248.4	1249.2	1273.3	1279.9
37.5°	2275.7	2351.0	2188.7	1689.1	1329.6	1222.7	1179.7	1140.7	1115.0	1105.1	1105.1
40°	2408.2	2519.2	2195.3	1535.9	1202.9	1140.7	1079.4	1033.0	983.3	938.6	930.3
42.5°	2632.7	2772.7	2182.0	1359.4	1088.5	1050.4	990.8	933.6	864.9	801.9	796.9
45°	3030.3	3102.4	2146.4	1176.3	986.6	963.4	905.5	843.3	770.4	714.1	710.0
47.5°	3667.4	3565.5	2099.2	1014.0	893.9	887.2	842.5	770.4	697.5	658.6	654.4
50°	4597.7	4294.5	2092.6	896.3	819.3	822.6	786.2	719.9	656.1	623.8	618.8
52.5°	5717.7	5175.1	2136.5	813.5	753.9	766.3	748.1	686.8	630.4	603.1	598.1
55°	6804.6	5967.1	2163.0	748.9	692.6	715.8	718.2	666.9	615.5	588.2	584.9
57.5°	7686.9	6563.5	2045.4	690.1	639.5	675.2	693.4	655.3	608.1	587.3	584.0
60°	8300.7	6845.2	1710.7	637.9	600.6	642.8	684.3	656.1	626.3	628.8	630.4
62.5°	8496.2	6720.1	1283.2	598.9	574.1	632.1	699.2	690.1	659.4	678.5	681.8
65°	8172.3	6203.2	930.3	568.3	550.9	639.5	743.9	714.9	647.8	661.9	661.9
67.5°	7087.9	5344.1	724.0	540.1	524.4	653.6	788.7	712.4	620.5	637.1	622.1
70°	5622.5	4133.8	603.1	508.6	496.2	632.9	792.8	686.8	588.2	591.5	563.3
72.5°	3731.2	2718.0	518.6	478.8	453.1	569.1	758.8	653.6	556.7	537.6	509.5
75°	1828.3	1355.3	452.3	441.5	396.8	495.4	712.4	622.1	522.7	492.9	477.2
77.5°	708.3	576.6	386.0	394.3	345.4	436.6	651.1	577.4	478.0	437.4	425.0
80°	343.8	327.2	316.5	328.9	284.1	372.0	594.8	538.5	436.6	391.8	373.6
82.5°	213.7	202.1	242.7	256.0	218.7	339.7	564.2	505.3	384.4	324.7	309.8
85°	108.5	116.0	162.4	174.8	156.6	270.1	464.7	379.4	277.5	230.3	232.0
87.5°	41.4	55.5	85.3	92.0	83.7	142.5	256.0	221.2	178.1	120.9	111.8
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)