

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: P651872

Luminaire Tested: **GALN-SA4A-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651872  
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-SA4A-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15225.5 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

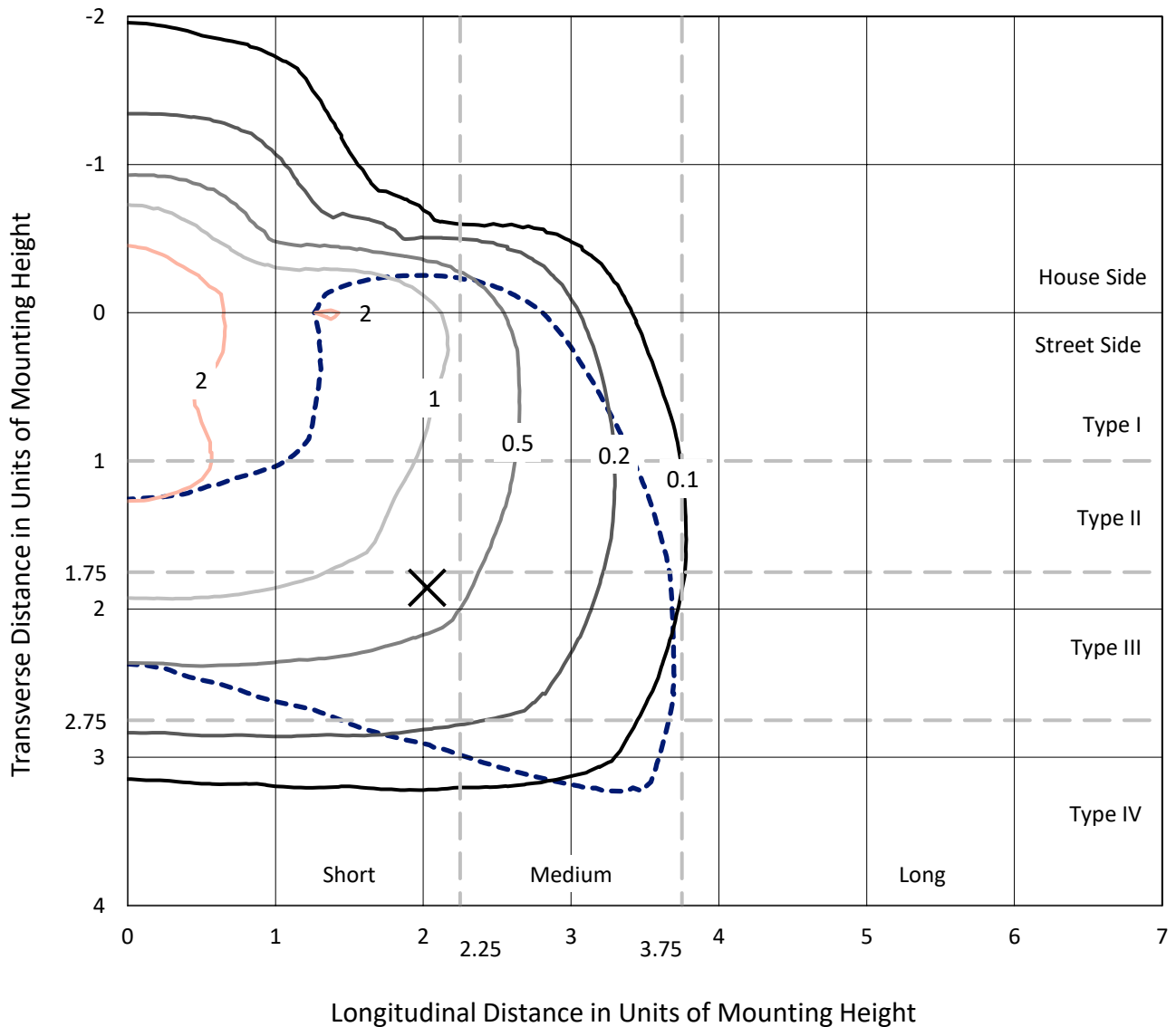
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

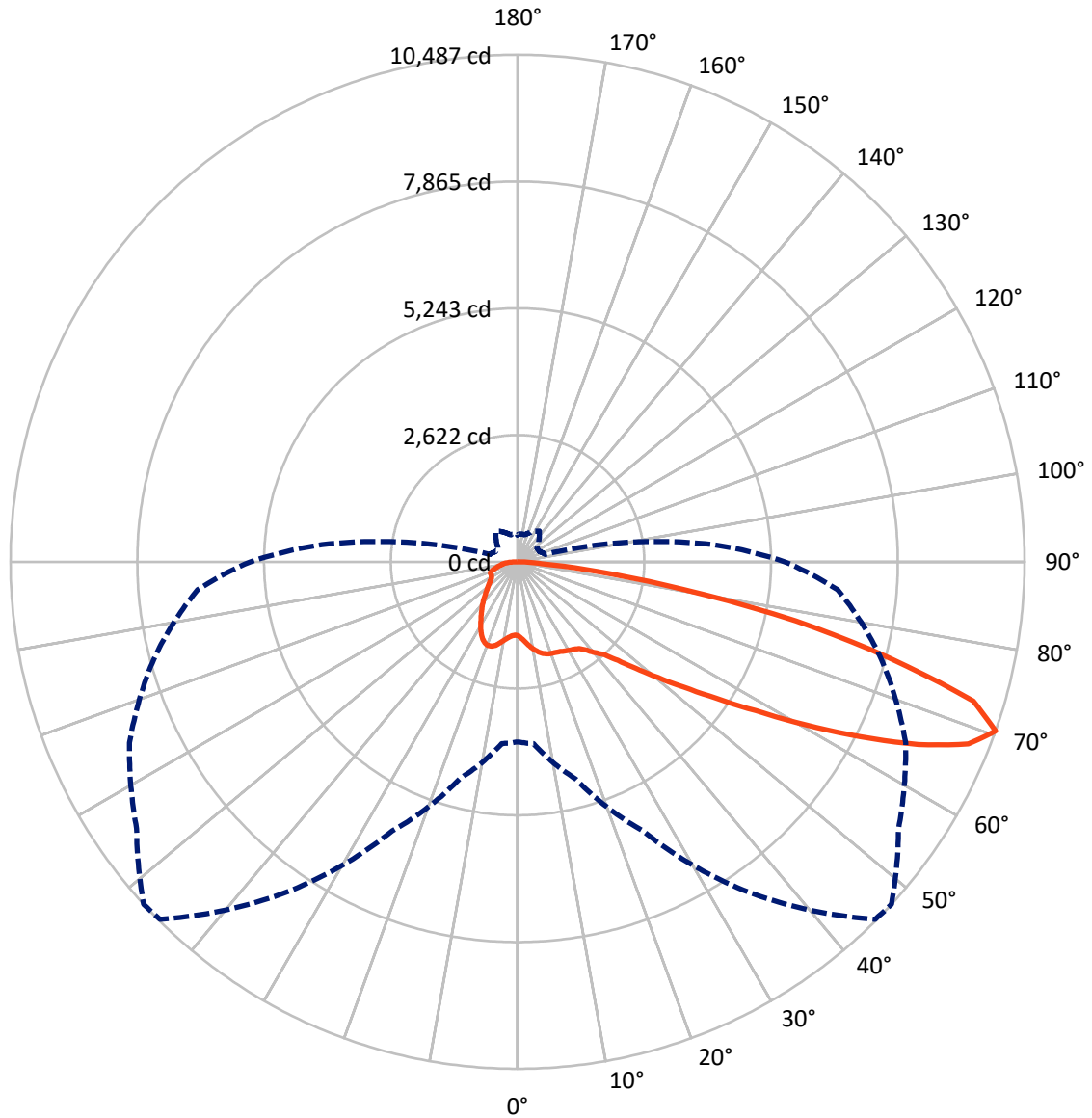
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3447.3	0.0	3447.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	11778.1	0.0	11778.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15225.5	0.0	15225.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	1.0
10°-20°	526.7	3.5
20°-30°	875.9	5.8
30°-40°	1241.5	8.2
40°-50°	1832.7	12.0
50°-60°	3174.3	20.8
60°-70°	4483.7	29.4
70°-80°	2577.5	16.9
80°-90°	355.6	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°	15225.5	100.0
0°-180°	15225.5	100.0

**Coefficient of Utilization**

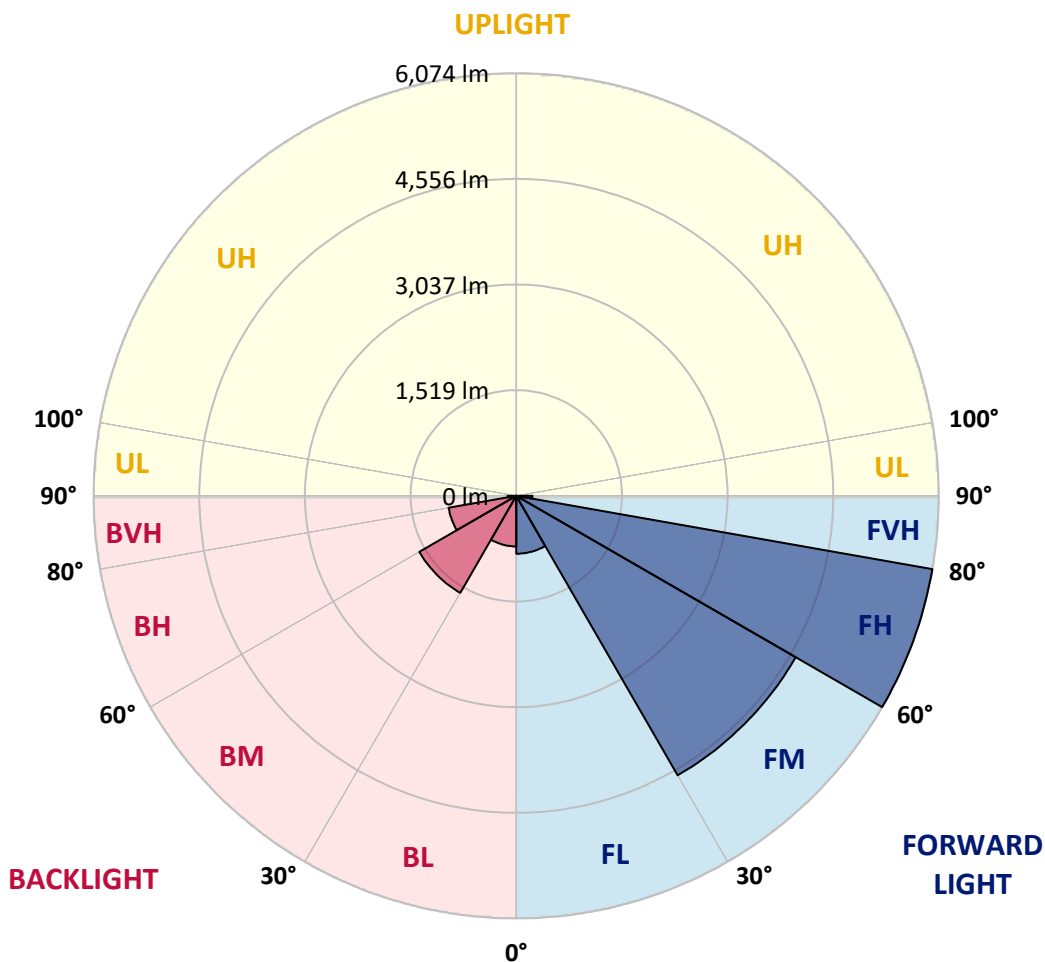


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.6	5.5			
FM (30°-60°)	4638.9	30.5			
FH (60°-80°)	6074.3	39.9			G3/7500
FVH (80°-90°)	232.3	1.5			G3/500
BL (0°-30°)	727.6	4.8	B2/1000		
BM (30°-60°)	1609.5	10.6	B2/2500		
BH (60°-80°)	986.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	123.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-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°	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4
2.5°	1627.0	1621.4	1620.5	1608.3	1601.8	1589.6	1584.7	1573.3	1559.4	1545.6	1532.6
5°	1754.9	1754.9	1749.3	1732.1	1705.2	1677.5	1665.3	1643.3	1604.2	1572.4	1545.6
7.5°	1886.1	1887.8	1876.4	1851.1	1812.8	1768.0	1756.6	1724.0	1668.6	1622.1	1582.3
10°	1999.4	1999.4	1983.9	1949.7	1901.6	1852.7	1841.3	1804.6	1742.7	1684.9	1632.7
12.5°	2085.8	2085.8	2065.3	2020.6	1968.4	1924.4	1911.3	1876.4	1818.5	1754.2	1688.1
15°	2141.9	2137.9	2115.0	2064.6	2014.0	1975.8	1966.8	1937.4	1884.5	1819.3	1745.2
17.5°	2144.4	2142.8	2120.7	2078.4	2034.4	2008.3	2002.7	1983.1	1941.5	1879.6	1801.4
20°	2097.1	2100.4	2085.8	2055.6	2034.4	2023.0	2020.6	2014.0	1984.7	1926.9	1848.7
22.5°	2046.7	2052.3	2038.5	2022.2	2020.6	2031.9	2033.6	2035.2	2016.5	1960.3	1888.5
25°	2034.4	2038.5	2024.6	2010.0	2018.9	2049.1	2055.6	2062.1	2047.4	2000.2	1935.8
27.5°	2096.4	2093.1	2066.2	2034.4	2040.1	2080.9	2089.8	2097.1	2089.8	2049.1	1994.5
30°	2271.5	2260.9	2207.1	2114.3	2084.9	2113.4	2122.4	2142.8	2142.8	2112.6	2058.0
32.5°	2564.8	2544.4	2445.9	2263.4	2161.5	2144.4	2153.4	2186.8	2203.8	2180.2	2120.7
35°	2920.9	2899.7	2758.7	2513.5	2301.6	2206.3	2203.8	2241.3	2287.0	2234.0	2156.7
37.5°	3278.6	3256.5	3087.1	2811.6	2506.2	2336.6	2322.0	2335.0	2354.6	2257.7	2206.3
40°	3636.1	3610.1	3461.8	3144.9	2756.3	2509.4	2471.1	2412.4	2404.3	2335.0	2302.5
42.5°	3990.6	3967.0	3892.0	3518.8	3056.1	2678.1	2619.4	2518.4	2549.3	2507.8	2479.3
45°	4348.3	4349.9	4270.1	3938.5	3417.8	2989.3	2910.3	2752.2	2825.5	2810.0	2826.3
47.5°	4665.2	4661.2	4632.6	4345.9	3866.7	3390.2	3288.3	3105.0	3230.4	3287.5	3412.1
50°	4972.3	4969.9	4971.6	4807.7	4388.2	3866.7	3754.3	3562.1	3844.8	4042.8	4266.0
52.5°	5412.3	5426.1	5327.6	5284.4	5022.0	4429.7	4305.9	4107.1	4570.7	4882.8	5318.7
55°	5853.9	5842.5	5765.1	5809.9	5685.2	5096.2	4966.7	4808.6	5379.0	5720.3	6375.4
57.5°	6113.8	6117.9	6196.9	6416.1	6504.0	5927.2	5809.9	5687.7	6287.3	6529.4	7315.5
60°	6347.6	6366.4	6593.7	7007.5	7246.3	6948.1	6843.8	6724.9	7120.8	7217.0	8132.0
62.5°	6421.0	6478.8	6875.6	7494.8	7969.8	8100.2	7970.6	7708.3	7914.4	7876.9	8685.2
65°	6055.1	6134.2	6845.5	7677.3	8615.9	9193.6	9111.2	8624.0	8590.6	8364.9	8775.6
67.5°	5092.1	5171.1	6084.5	7294.4	8883.1	10140.3	10057.9	9292.1	9001.2	8410.6	8091.2
70°	3725.8	3775.5	4648.9	6141.5	8346.2	10458.0	10486.5	9618.0	8854.6	7790.5	6643.4
72.5°	2146.8	2256.8	2868.7	4320.6	6818.6	9654.7	9852.7	8940.2	7927.4	6499.2	4644.8
75°	923.1	925.5	1326.4	2383.1	4617.9	7760.4	7951.9	7410.9	6225.4	4494.1	2480.1
77.5°	439.2	447.3	583.3	1064.0	2542.0	5361.8	5878.3	5235.6	3981.6	2159.1	937.0
80°	285.2	290.9	356.8	528.0	1246.5	3109.0	3469.1	3020.3	1756.6	771.5	404.1
82.5°	172.7	174.3	238.8	322.6	686.0	1407.8	1659.6	1311.0	749.6	462.0	237.9
85°	105.1	105.9	145.0	199.7	416.3	486.4	499.5	495.3	439.9	302.3	127.1
87.5°	50.5	52.1	74.9	94.5	163.7	150.7	142.5	165.4	207.7	163.0	54.6
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°	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4
2.5°	1526.8	1524.4	1518.7	1516.2	1514.6	1515.4	1514.6	1514.6	1515.4	1515.4	1515.4
5°	1534.2	1530.1	1521.1	1521.1	1526.0	1537.4	1548.0	1556.2	1565.1	1564.3	1564.3
7.5°	1565.9	1558.6	1548.0	1551.2	1563.5	1581.4	1600.2	1618.1	1636.0	1637.6	1636.8
10°	1612.4	1605.0	1593.6	1597.7	1617.2	1644.2	1667.8	1693.9	1713.4	1719.1	1717.5
12.5°	1665.3	1650.6	1640.9	1652.3	1683.3	1719.1	1741.9	1761.5	1775.4	1783.5	1780.2
15°	1719.1	1705.2	1693.9	1717.5	1754.9	1788.4	1799.7	1803.0	1805.5	1813.6	1812.0
17.5°	1771.2	1752.5	1748.4	1779.4	1815.2	1829.9	1823.4	1809.6	1799.0	1805.5	1804.6
20°	1817.7	1803.0	1801.4	1832.4	1846.2	1832.4	1804.6	1780.2	1761.5	1763.1	1762.3
22.5°	1861.7	1850.3	1851.9	1864.9	1843.0	1795.7	1750.0	1716.6	1696.3	1700.3	1702.8
25°	1910.6	1899.1	1903.3	1882.1	1809.6	1727.2	1661.2	1632.7	1624.6	1632.7	1638.4
27.5°	1974.1	1966.8	1964.3	1882.8	1750.0	1626.2	1551.2	1540.7	1548.0	1565.9	1574.9
30°	2042.5	2042.5	2029.5	1869.0	1668.6	1504.8	1439.6	1441.3	1466.5	1491.8	1500.8
32.5°	2108.6	2122.4	2081.6	1831.5	1563.5	1386.7	1337.0	1338.6	1360.7	1391.6	1399.8
35°	2163.1	2203.1	2126.5	1763.1	1439.6	1287.3	1249.8	1227.8	1228.6	1252.2	1258.8
37.5°	2238.1	2312.2	2152.5	1661.2	1307.7	1202.5	1160.2	1121.9	1096.7	1086.8	1086.8
40°	2368.4	2477.6	2159.1	1510.5	1183.0	1121.9	1061.6	1016.0	967.1	923.1	914.9
42.5°	2589.3	2726.9	2146.1	1337.0	1070.6	1033.1	974.5	918.2	850.6	788.7	783.8
45°	2980.3	3051.2	2111.0	1157.0	970.3	947.6	890.5	829.4	757.7	702.3	698.2
47.5°	3606.9	3506.6	2064.6	997.3	879.1	872.6	828.6	757.7	686.0	647.7	643.6
50°	4521.8	4223.6	2058.0	881.5	805.8	809.0	773.2	708.0	645.3	613.5	608.6
52.5°	5623.3	5089.6	2101.2	800.0	741.4	753.6	735.7	675.4	620.0	593.2	588.3
55°	6692.3	5868.6	2127.3	736.5	681.1	703.9	706.4	655.9	605.4	578.4	575.2
57.5°	7560.0	6455.2	2011.6	678.7	629.0	664.1	682.0	644.5	598.0	577.7	574.4
60°	8163.7	6732.2	1682.4	627.4	590.7	632.3	673.0	645.3	615.9	618.4	620.0
62.5°	8356.0	6609.2	1262.0	589.0	564.6	621.7	687.6	678.7	648.5	667.2	670.5
65°	8037.4	6100.8	914.9	558.9	541.8	629.0	731.7	703.2	637.1	651.0	651.0
67.5°	6970.9	5255.9	712.1	531.2	515.7	642.9	775.7	700.6	610.2	626.5	611.9
70°	5529.7	4065.6	593.2	500.2	488.0	622.4	779.7	675.4	578.4	581.7	554.1
72.5°	3669.6	2673.2	510.1	471.0	445.6	559.7	746.3	642.9	547.5	528.7	501.1
75°	1798.1	1332.9	444.9	434.3	390.2	487.2	700.6	611.9	514.1	484.8	469.3
77.5°	696.6	567.1	379.6	387.8	339.8	429.3	640.4	567.8	470.1	430.2	418.0
80°	338.1	321.9	311.3	323.4	279.5	365.8	585.0	529.6	429.3	385.3	367.4
82.5°	210.2	198.8	238.8	251.8	215.1	334.0	554.8	497.0	378.0	319.4	304.7
85°	106.7	114.0	159.7	171.9	154.0	265.6	457.1	373.2	272.9	226.5	228.2
87.5°	40.7	54.6	83.9	90.4	82.2	140.1	251.8	217.6	175.2	118.9	110.0
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)