

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: P522722

Luminaire Tested: **GALN-SA4A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522722
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 15141 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

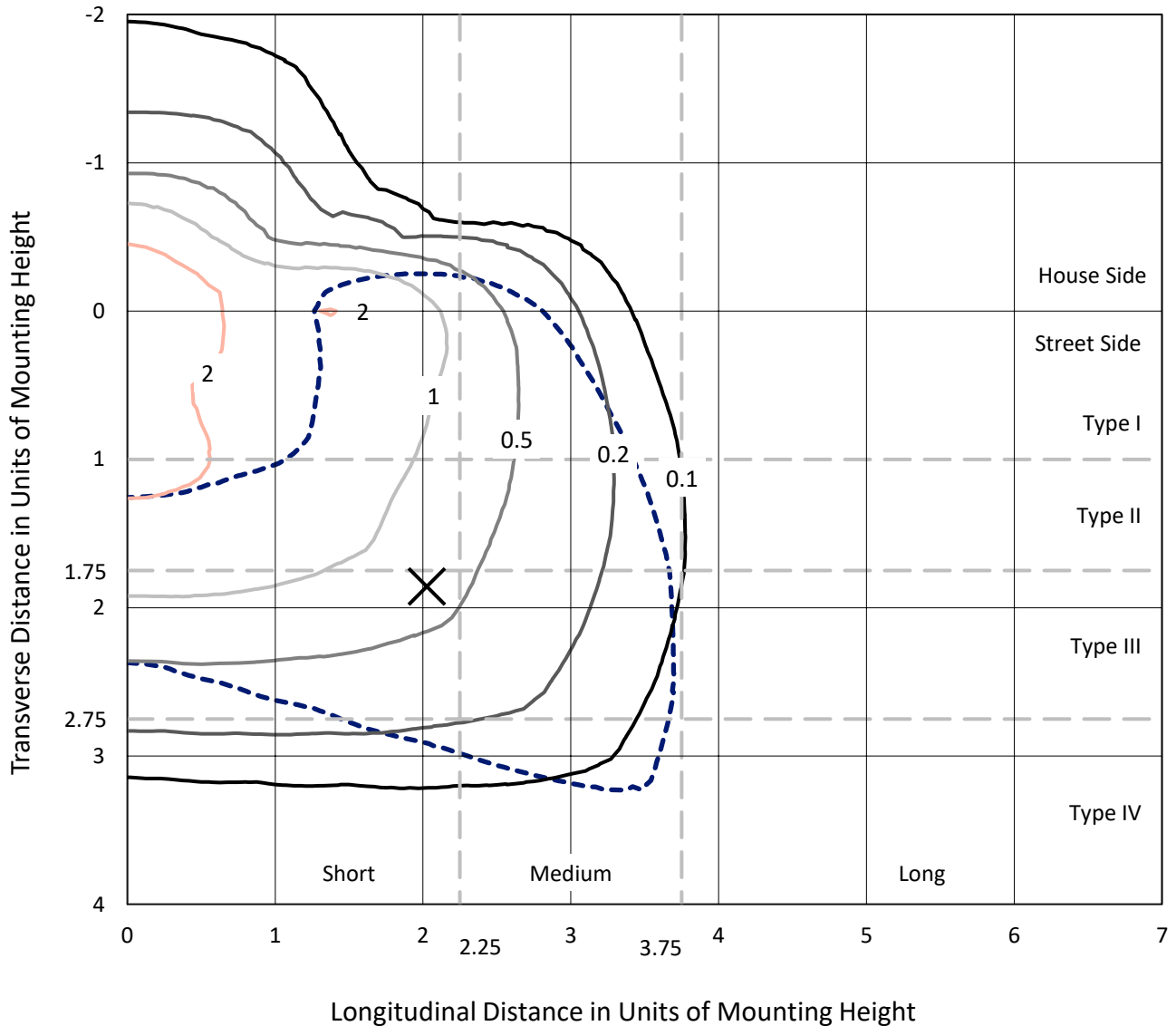
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

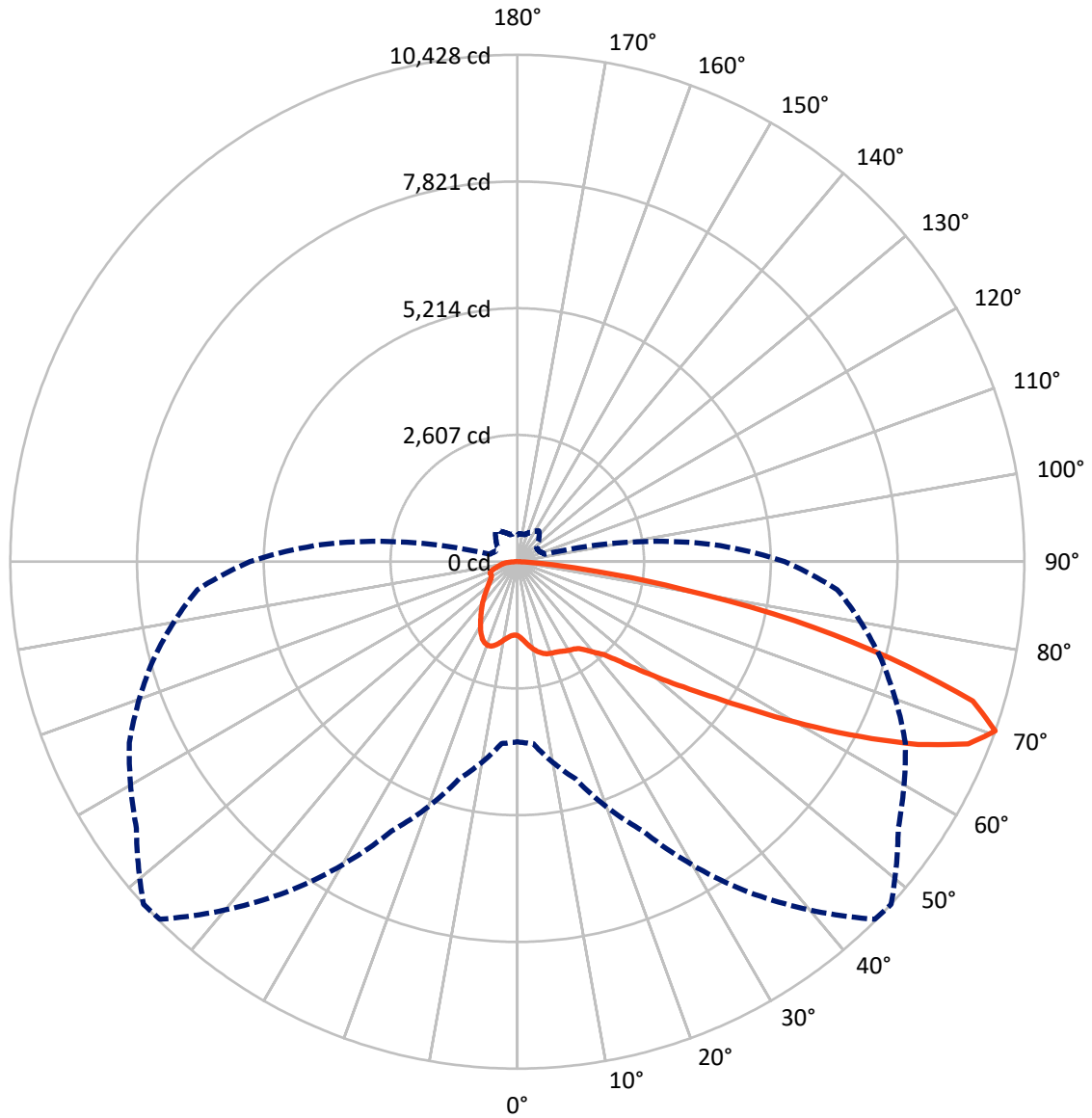
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	3428.2	0.0	3428.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11712.8	0.0	11712.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	15141.0	0.0	15141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.0
10°-20°	523.8	3.5
20°-30°	871.0	5.8
30°-40°	1234.6	8.2
40°-50°	1822.5	12.0
50°-60°	3156.7	20.8
60°-70°	4458.9	29.4
70°-80°	2563.2	16.9
80°-90°	353.7	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°	15141.0	100.0
0°-180°	15141.0	100.0

Coefficient of Utilization



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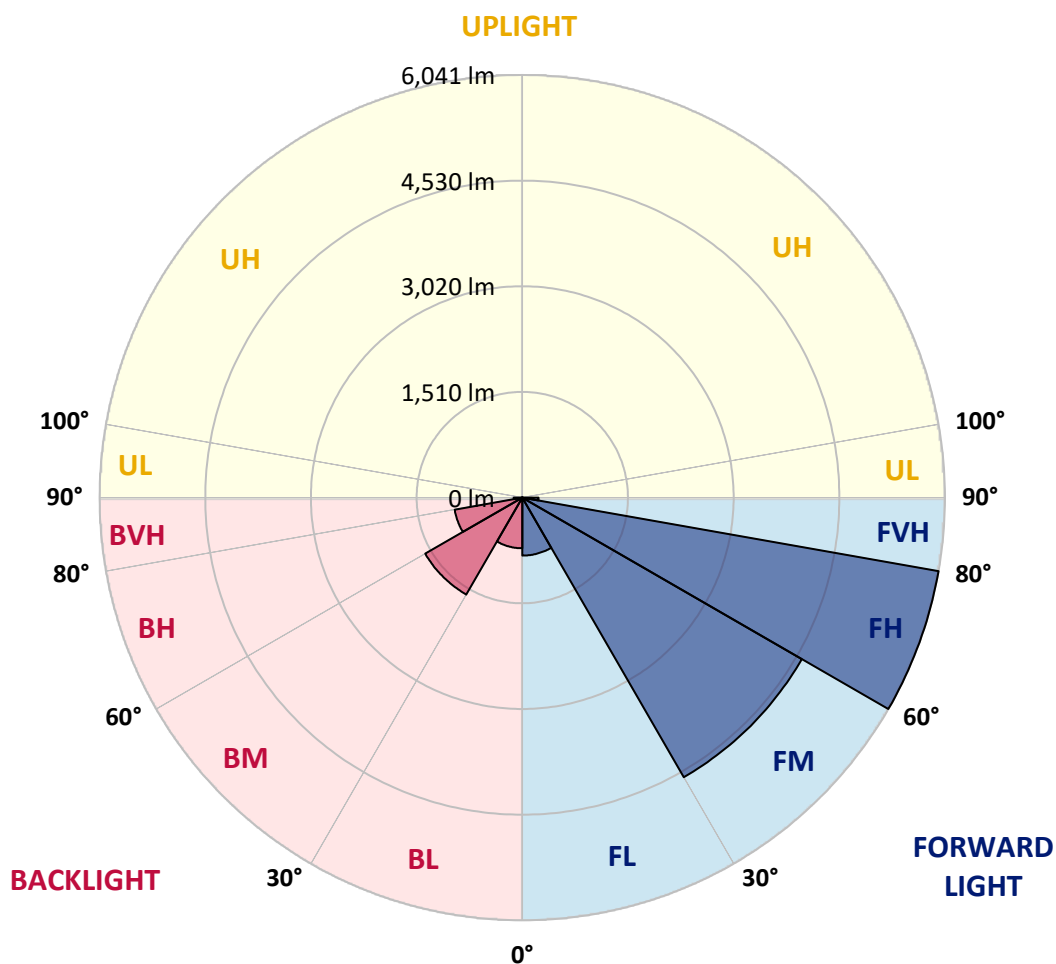
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.0	5.5			
FM	(30°-60°)	4613.2	30.5			
FH	(60°-80°)	6040.6	39.9			G3/7500
FVH	(80°-90°)	231.0	1.5			G3/500
BL	(0°-30°)	723.5	4.8	B2/1000		
BM	(30°-60°)	1600.6	10.6	B2/2500		
BH	(60°-80°)	981.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	122.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0
2.5°	1618.0	1612.3	1611.5	1599.4	1592.9	1580.7	1575.9	1564.5	1550.8	1537.0	1524.0
5°	1745.2	1745.2	1739.5	1722.5	1695.8	1668.2	1656.1	1634.2	1595.3	1563.7	1537.0
7.5°	1875.7	1877.3	1865.9	1840.8	1802.7	1758.2	1746.8	1714.4	1659.3	1613.1	1573.4
10°	1988.3	1988.3	1972.9	1938.9	1891.1	1842.4	1831.1	1794.6	1733.1	1675.5	1623.7
12.5°	2074.2	2074.2	2053.9	2009.3	1957.5	1913.7	1900.8	1865.9	1808.4	1744.4	1678.8
15°	2130.1	2126.0	2103.3	2053.1	2002.9	1964.8	1955.9	1926.7	1874.0	1809.2	1735.5
17.5°	2132.5	2130.9	2109.0	2066.9	2023.1	1997.2	1991.5	1972.1	1930.8	1869.2	1791.4
20°	2085.5	2088.7	2074.2	2044.2	2023.1	2011.8	2009.3	2002.9	1973.7	1916.2	1838.4
22.5°	2035.3	2040.9	2027.2	2011.0	2009.3	2020.7	2022.3	2023.9	2005.3	1949.4	1878.1
25°	2023.1	2027.2	2013.4	1998.8	2007.7	2037.7	2044.2	2050.7	2036.1	1989.1	1925.1
27.5°	2084.7	2081.5	2054.7	2023.1	2028.8	2069.3	2078.2	2085.5	2078.2	2037.7	1983.4
30°	2258.9	2248.4	2194.9	2102.5	2073.4	2101.7	2110.6	2130.9	2130.9	2100.9	2046.6
32.5°	2550.6	2530.3	2432.3	2250.8	2149.5	2132.5	2141.4	2174.6	2191.6	2168.2	2109.0
35°	2904.6	2883.6	2743.4	2499.5	2288.9	2194.1	2191.6	2228.9	2274.3	2221.6	2144.7
37.5°	3260.3	3238.5	3069.9	2796.1	2492.2	2323.7	2309.1	2322.1	2341.5	2245.1	2194.1
40°	3616.0	3590.1	3442.6	3127.5	2741.0	2495.5	2457.4	2399.1	2391.0	2322.1	2289.7
42.5°	3968.5	3945.0	3870.4	3499.3	3039.1	2663.2	2604.9	2504.4	2535.2	2493.9	2465.5
45°	4324.1	4325.8	4246.4	3916.6	3398.9	2972.7	2894.1	2736.9	2809.8	2794.5	2810.7
47.5°	4639.3	4635.3	4606.9	4321.7	3845.3	3371.3	3270.1	3087.8	3212.5	3269.2	3393.2
50°	4944.8	4942.3	4944.0	4781.1	4363.8	3845.3	3733.5	3542.3	3823.4	4020.3	4242.3
52.5°	5382.3	5396.1	5298.0	5255.1	4994.2	4405.2	4282.0	4084.3	4545.3	4855.7	5289.1
55°	5821.4	5810.1	5733.1	5777.7	5653.7	5067.9	4939.1	4781.9	5349.1	5688.6	6340.0
57.5°	6079.9	6083.9	6162.5	6380.5	6468.0	5894.4	5777.7	5656.2	6252.5	6493.1	7275.0
60°	6312.4	6331.1	6557.1	6968.7	7206.1	6909.6	6805.9	6687.6	7081.3	7176.9	8086.8
62.5°	6385.4	6442.9	6837.5	7453.2	7925.6	8055.2	7926.4	7665.5	7870.5	7833.2	8637.0
65°	6021.6	6100.2	6807.5	7634.7	8568.1	9142.5	9060.7	8576.2	8543.0	8318.5	8726.9
67.5°	5063.9	5142.5	6050.7	7253.9	8833.8	10084.0	10002.2	9240.6	8951.3	8363.9	8046.3
70°	3705.1	3754.6	4623.1	6107.4	8299.9	10400.0	10428.4	9564.7	8805.5	7747.3	6606.5
72.5°	2134.9	2244.3	2852.8	4296.6	6780.7	9601.1	9798.0	8890.6	7883.4	6463.1	4619.1
75°	918.0	920.4	1319.0	2369.9	4592.3	7717.4	7907.8	7369.8	6190.9	4469.2	2466.3
77.5°	436.7	444.8	580.1	1058.1	2527.9	5332.1	5845.7	5206.5	3959.5	2147.1	931.8
80°	283.6	289.2	354.9	525.0	1239.6	3091.8	3449.9	3003.5	1746.8	767.3	401.9
82.5°	171.8	173.4	237.4	320.8	682.2	1400.1	1650.4	1303.6	745.4	459.4	236.6
85°	104.5	105.3	144.2	198.5	414.0	483.7	496.7	492.6	437.5	300.6	126.4
87.5°	50.2	51.9	74.5	94.0	162.9	149.9	141.8	164.5	206.6	162.0	54.3
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°	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0	1520.0
2.5°	1518.4	1515.9	1510.3	1507.8	1506.2	1507.0	1506.2	1506.2	1507.0	1507.0	1507.0
5°	1525.6	1521.6	1512.7	1512.7	1517.5	1528.9	1539.4	1547.5	1556.4	1555.6	1555.6
7.5°	1557.2	1550.0	1539.4	1542.7	1554.8	1572.6	1591.3	1609.1	1626.9	1628.5	1627.7
10°	1603.4	1596.1	1584.8	1588.8	1608.3	1635.0	1658.5	1684.4	1703.9	1709.6	1707.9
12.5°	1656.1	1641.5	1631.8	1643.1	1673.9	1709.6	1732.3	1751.7	1765.5	1773.6	1770.3
15°	1709.6	1695.8	1684.4	1707.9	1745.2	1778.4	1789.8	1793.0	1795.4	1803.6	1801.9
17.5°	1761.4	1742.8	1738.7	1769.5	1805.2	1819.8	1813.3	1799.5	1789.0	1795.4	1794.6
20°	1807.6	1793.0	1791.4	1822.2	1836.0	1822.2	1794.6	1770.3	1751.7	1753.3	1752.5
22.5°	1851.4	1840.0	1841.6	1854.6	1832.7	1785.7	1740.4	1707.1	1686.9	1690.9	1693.4
25°	1900.0	1888.6	1892.7	1871.6	1799.5	1717.7	1652.0	1623.7	1615.6	1623.7	1629.4
27.5°	1963.2	1955.9	1953.4	1872.4	1740.4	1617.2	1542.7	1532.1	1539.4	1557.2	1566.2
30°	2031.2	2031.2	2018.3	1858.6	1659.3	1496.5	1431.7	1433.3	1458.4	1483.5	1492.4
32.5°	2096.9	2110.6	2070.1	1821.4	1554.8	1379.0	1329.6	1331.2	1353.1	1383.9	1392.0
35°	2151.1	2190.8	2114.7	1753.3	1431.7	1280.1	1242.9	1221.0	1221.8	1245.3	1251.8
37.5°	2225.7	2299.4	2140.6	1652.0	1300.4	1195.9	1153.8	1115.7	1090.6	1080.8	1080.8
40°	2355.3	2463.9	2147.1	1502.1	1176.4	1115.7	1055.7	1010.3	961.7	918.0	909.9
42.5°	2574.9	2711.8	2134.1	1329.6	1064.6	1027.4	969.0	913.1	845.9	784.3	779.4
45°	2963.8	3034.3	2099.3	1150.5	965.0	942.3	885.6	824.8	753.5	698.4	694.4
47.5°	3586.8	3487.2	2053.1	991.7	874.2	867.7	824.0	753.5	682.2	644.1	640.1
50°	4496.7	4200.2	2046.6	876.7	801.3	804.5	768.9	704.1	641.7	610.1	605.2
52.5°	5592.1	5061.4	2089.6	795.6	737.3	749.5	731.6	671.7	616.6	589.8	585.0
55°	6655.2	5836.0	2115.5	732.4	677.3	700.0	702.5	652.2	602.0	575.3	572.0
57.5°	7518.0	6419.4	2000.4	674.9	625.5	660.3	678.2	640.9	594.7	574.4	571.2
60°	8118.4	6694.9	1673.1	623.9	587.4	628.7	669.2	641.7	612.5	615.0	616.6
62.5°	8309.6	6572.5	1255.0	585.8	561.5	618.2	683.8	674.9	644.9	663.6	666.8
65°	7992.8	6066.9	909.9	555.8	538.8	625.5	727.6	699.2	633.6	647.4	647.4
67.5°	6932.2	5226.7	708.1	528.3	512.9	639.3	771.3	696.8	606.9	623.1	608.5
70°	5499.0	4043.0	589.8	497.5	485.3	619.0	775.4	671.7	575.3	578.5	551.0
72.5°	3649.2	2658.3	507.2	468.3	443.2	556.6	742.2	639.3	544.5	525.8	498.3
75°	1788.2	1325.5	442.4	431.8	388.1	484.5	696.8	608.5	511.2	482.1	466.7
77.5°	692.7	563.9	377.6	385.7	337.9	427.0	636.8	564.7	467.5	427.8	415.6
80°	336.2	320.0	309.5	321.7	277.9	363.8	581.7	526.6	427.0	383.2	365.4
82.5°	209.0	197.7	237.4	250.4	213.9	332.2	551.8	494.2	375.9	317.6	303.0
85°	106.1	113.4	158.8	171.0	153.1	264.1	454.5	371.1	271.4	225.2	226.9
87.5°	40.5	54.3	83.5	89.9	81.8	139.4	250.4	216.3	174.2	118.3	109.4
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)