

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: P522724

Luminaire Tested: **GALN-SA4A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522724
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 16865 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

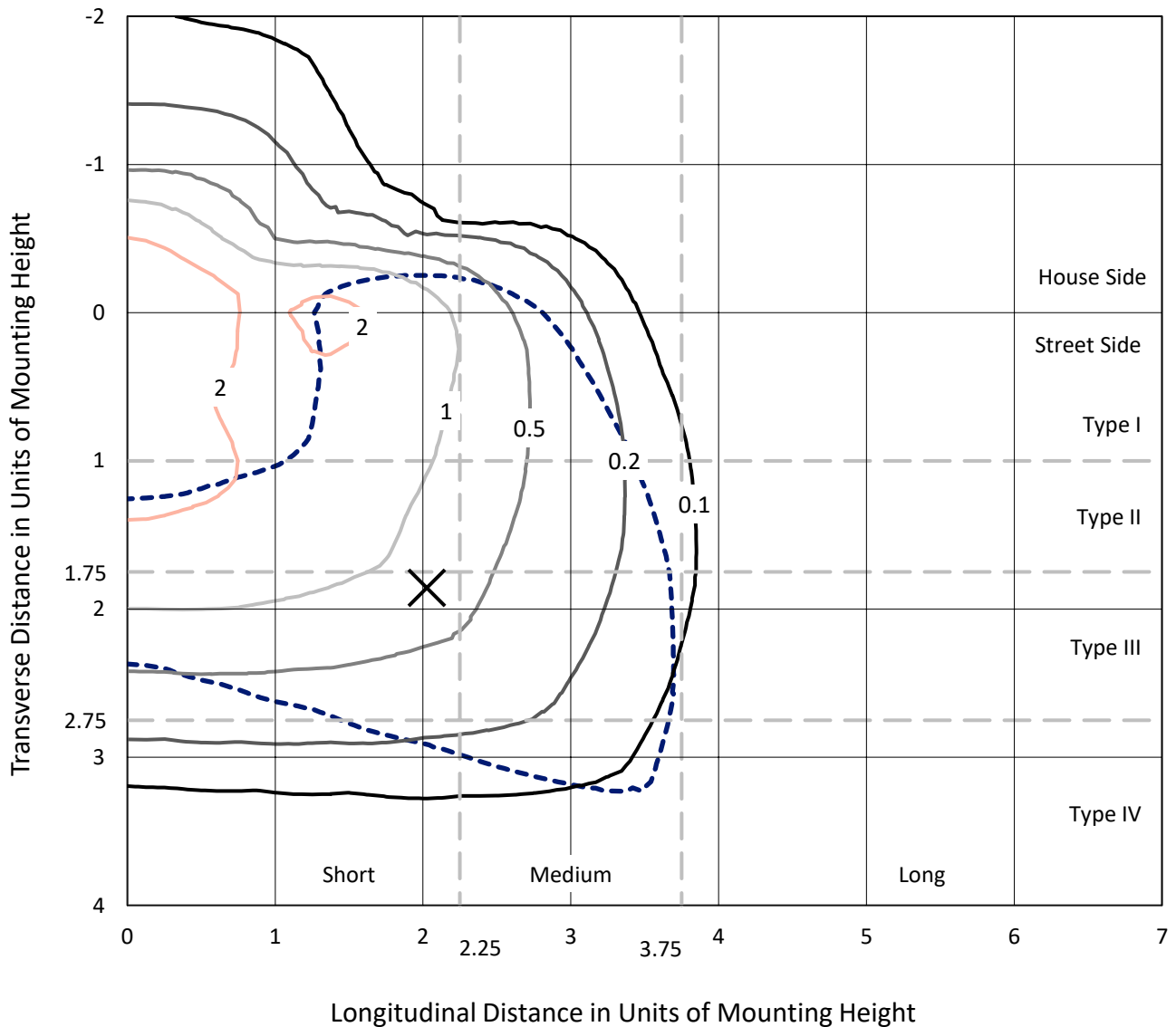
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

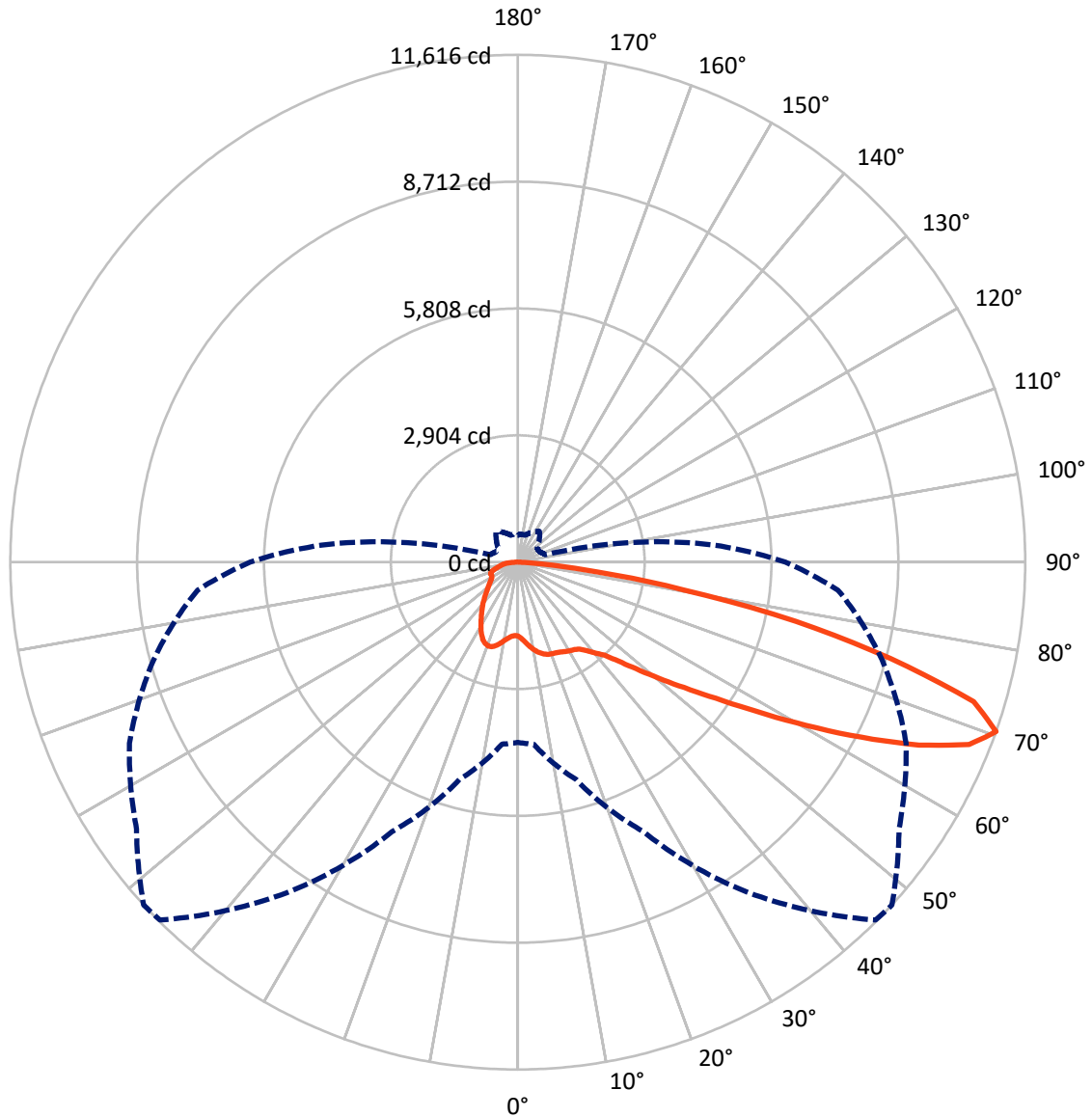
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	3818.6	0.0	3818.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13046.4	0.0	13046.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	16865.0	0.0	16865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.0
10°-20°	583.4	3.5
20°-30°	970.2	5.8
30°-40°	1375.2	8.2
40°-50°	2030.0	12.0
50°-60°	3516.1	20.8
60°-70°	4966.6	29.4
70°-80°	2855.1	16.9
80°-90°	393.9	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°	16865.0	100.0
0°-180°	16865.0	100.0

Coefficient of Utilization



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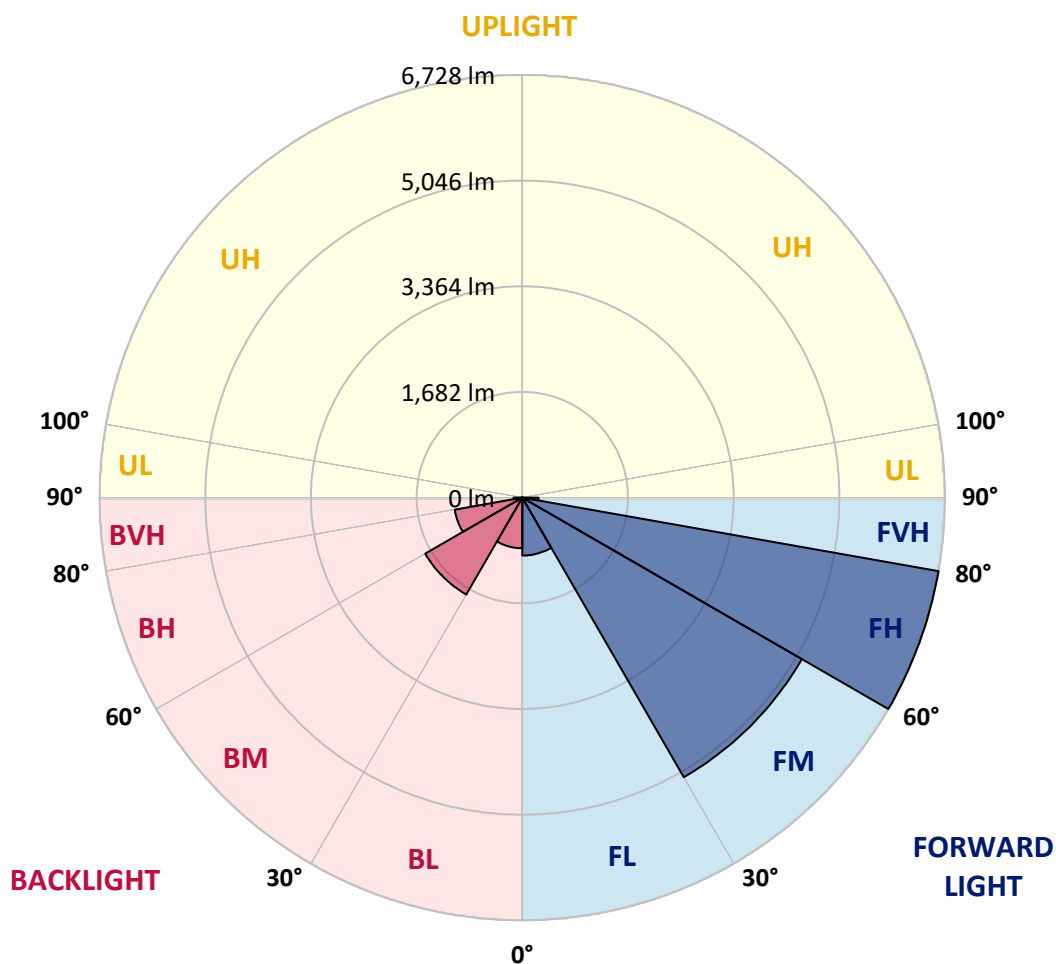
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.2	5.5			
FM	(30°-60°)	5138.4	30.5			
FH	(60°-80°)	6728.4	39.9			G3/7500
FVH	(80°-90°)	257.3	1.5			G3/500
BL	(0°-30°)	805.9	4.8	B2/1000		
BM	(30°-60°)	1782.8	10.6	B2/2500		
BH	(60°-80°)	1093.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	136.6	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°	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0
2.5°	1802.2	1795.9	1795.0	1781.5	1774.3	1760.7	1755.3	1742.7	1727.3	1712.0	1697.6
5°	1943.9	1943.9	1937.6	1918.7	1888.9	1858.2	1844.7	1820.3	1777.0	1741.8	1712.0
7.5°	2089.2	2091.0	2078.4	2050.4	2008.0	1958.4	1945.7	1909.6	1848.3	1796.8	1752.6
10°	2214.7	2214.7	2197.5	2159.6	2106.4	2052.2	2039.6	1999.0	1930.4	1866.3	1808.6
12.5°	2310.3	2310.3	2287.8	2238.1	2180.4	2131.6	2117.2	2078.4	2014.3	1943.0	1869.9
15°	2372.6	2368.1	2342.8	2286.9	2230.9	2188.5	2178.6	2146.1	2087.4	2015.2	1933.1
17.5°	2375.3	2373.5	2349.1	2302.2	2253.5	2224.6	2218.3	2196.6	2150.6	2082.0	1995.4
20°	2323.0	2326.6	2310.3	2276.9	2253.5	2240.8	2238.1	2230.9	2198.4	2134.4	2047.7
22.5°	2267.0	2273.3	2258.0	2239.9	2238.1	2250.8	2252.6	2254.4	2233.6	2171.4	2091.9
25°	2253.5	2258.0	2242.7	2226.4	2236.3	2269.7	2276.9	2284.2	2267.9	2215.6	2144.3
27.5°	2322.1	2318.5	2288.7	2253.5	2259.8	2304.9	2314.8	2323.0	2314.8	2269.7	2209.3
30°	2516.1	2504.4	2444.8	2341.9	2309.4	2341.0	2350.9	2373.5	2373.5	2340.1	2279.7
32.5°	2841.0	2818.4	2709.2	2507.1	2394.3	2375.3	2385.2	2422.2	2441.2	2415.0	2349.1
35°	3235.4	3211.9	3055.8	2784.1	2549.5	2443.9	2441.2	2482.7	2533.2	2474.6	2388.9
37.5°	3631.6	3607.2	3419.5	3114.4	2776.0	2588.3	2572.1	2586.5	2608.2	2500.8	2443.9
40°	4027.7	3998.9	3834.6	3483.6	3053.1	2779.6	2737.2	2672.2	2663.2	2586.5	2550.4
42.5°	4420.3	4394.2	4311.1	3897.8	3385.2	2966.4	2901.5	2789.6	2823.8	2777.8	2746.2
45°	4816.5	4818.3	4729.9	4362.6	3785.9	3311.2	3223.6	3048.6	3129.8	3112.6	3130.7
47.5°	5167.6	5163.1	5131.5	4813.8	4283.1	3755.2	3642.4	3439.3	3578.3	3641.5	3779.6
50°	5507.8	5505.1	5506.9	5325.5	4860.7	4283.1	4158.6	3945.6	4258.8	4478.1	4725.4
52.5°	5995.1	6010.5	5901.3	5853.5	5562.9	4906.8	4769.6	4549.4	5062.9	5408.5	5891.4
55°	6484.3	6471.6	6385.9	6435.5	6297.5	5645.0	5501.5	5326.4	5958.1	6336.3	7061.9
57.5°	6772.2	6776.7	6864.2	7107.0	7204.5	6565.5	6435.5	6300.2	6964.4	7232.4	8103.3
60°	7031.2	7051.9	7303.7	7762.2	8026.6	7696.3	7580.8	7449.0	7887.6	7994.1	9007.6
62.5°	7112.4	7176.5	7616.0	8301.9	8828.0	8972.4	8828.9	8538.3	8766.6	8725.1	9620.4
65°	6707.2	6794.7	7582.6	8504.0	9543.7	10183.5	10092.4	9552.7	9515.7	9265.7	9720.6
67.5°	5640.5	5728.0	6739.7	8079.9	9839.7	11232.2	11141.1	10292.7	9970.5	9316.2	8962.5
70°	4127.0	4182.1	5149.5	6802.9	9245.0	11584.2	11615.8	10653.7	9808.1	8629.5	7358.8
72.5°	2378.0	2499.9	3177.6	4785.8	7552.8	10694.3	10913.6	9902.9	8781.1	7199.0	5145.0
75°	1022.5	1025.2	1469.2	2639.7	5115.2	8596.1	8808.2	8208.9	6895.8	4978.1	2747.1
77.5°	486.4	495.5	646.2	1178.6	2815.7	5939.2	6511.4	5799.3	4410.4	2391.6	1037.8
80°	315.9	322.2	395.3	584.8	1380.8	3443.8	3842.7	3345.5	1945.7	854.6	447.6
82.5°	191.3	193.1	264.4	357.4	759.9	1559.5	1838.3	1452.1	830.3	511.7	263.5
85°	116.4	117.3	160.6	221.1	461.2	538.8	553.2	548.7	487.3	334.8	140.8
87.5°	56.0	57.8	83.0	104.7	181.4	167.0	157.9	183.2	230.1	180.5	60.5
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°	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0	1693.0
2.5°	1691.2	1688.5	1682.2	1679.5	1677.7	1678.6	1677.7	1677.7	1678.6	1678.6	1678.6
5°	1699.4	1694.8	1684.9	1684.9	1690.3	1703.0	1714.7	1723.7	1733.7	1732.8	1732.8
7.5°	1734.6	1726.4	1714.7	1718.3	1731.8	1751.7	1772.5	1792.3	1812.2	1814.0	1813.1
10°	1786.0	1777.9	1765.2	1769.8	1791.4	1821.2	1847.4	1876.2	1897.9	1904.2	1902.4
12.5°	1844.7	1828.4	1817.6	1830.2	1864.5	1904.2	1929.5	1951.2	1966.5	1975.5	1971.9
15°	1904.2	1888.9	1876.2	1902.4	1943.9	1980.9	1993.6	1997.2	1999.9	2008.9	2007.1
17.5°	1962.0	1941.2	1936.7	1971.0	2010.7	2027.0	2019.7	2004.4	1992.7	1999.9	1999.0
20°	2013.4	1997.2	1995.4	2029.7	2045.0	2029.7	1999.0	1971.9	1951.2	1953.0	1952.1
22.5°	2062.2	2049.5	2051.3	2065.8	2041.4	1989.1	1938.5	1901.5	1879.0	1883.5	1886.2
25°	2116.3	2103.7	2108.2	2084.7	2004.4	1913.2	1840.1	1808.6	1799.5	1808.6	1814.9
27.5°	2186.7	2178.6	2175.9	2085.6	1938.5	1801.3	1718.3	1706.6	1714.7	1734.6	1744.5
30°	2262.5	2262.5	2248.1	2070.3	1848.3	1666.9	1594.7	1596.5	1624.5	1652.4	1662.4
32.5°	2335.6	2350.9	2305.8	2028.8	1731.8	1536.0	1481.0	1482.8	1507.1	1541.4	1550.5
35°	2396.1	2440.3	2355.5	1953.0	1594.7	1425.9	1384.4	1360.0	1360.9	1387.1	1394.3
37.5°	2479.1	2561.2	2384.3	1840.1	1448.5	1332.1	1285.1	1242.7	1214.7	1203.9	1203.9
40°	2623.5	2744.4	2391.6	1673.2	1310.4	1242.7	1175.9	1125.4	1071.2	1022.5	1013.5
42.5°	2868.1	3020.6	2377.1	1481.0	1185.9	1144.3	1079.4	1017.1	942.2	873.6	868.2
45°	3301.3	3379.8	2338.3	1281.5	1074.8	1049.6	986.4	918.7	839.3	777.9	773.4
47.5°	3995.3	3884.3	2286.9	1104.6	973.8	966.6	917.8	839.3	759.9	717.5	713.0
50°	5008.7	4678.4	2279.7	976.5	892.5	896.2	856.4	784.3	714.8	679.6	674.1
52.5°	6228.9	5637.8	2327.5	886.2	821.3	834.8	814.9	748.2	686.8	657.0	651.6
55°	7412.9	6500.5	2356.4	815.8	754.5	779.7	782.4	726.5	670.5	640.8	637.1
57.5°	8374.1	7150.3	2228.2	751.8	696.7	735.5	755.4	713.9	662.4	639.9	636.2
60°	9042.8	7457.2	1863.6	694.9	654.3	700.3	745.4	714.8	682.3	685.0	686.8
62.5°	9255.8	7320.9	1397.9	652.5	625.4	688.6	761.7	751.8	718.4	739.1	742.7
65°	8902.9	6757.7	1013.5	619.1	600.1	696.7	810.4	778.8	705.7	721.1	721.1
67.5°	7721.6	5821.9	788.8	588.4	571.3	712.1	859.2	776.1	676.0	694.0	677.8
70°	6125.1	4503.4	657.0	554.1	540.6	689.5	863.7	748.2	640.8	644.4	613.7
72.5°	4064.7	2961.0	564.9	521.6	493.7	620.0	826.7	712.1	606.5	585.7	555.0
75°	1991.8	1476.4	492.8	481.0	432.3	539.7	776.1	677.8	569.5	537.0	519.8
77.5°	771.6	628.1	420.6	429.6	376.3	475.6	709.3	629.0	520.7	476.5	463.0
80°	374.5	356.5	344.7	358.3	309.5	405.2	648.0	586.6	475.6	426.9	407.0
82.5°	232.8	220.2	264.4	278.9	238.3	370.0	614.6	550.5	418.7	353.8	337.5
85°	118.2	126.3	176.9	190.4	170.6	294.2	506.3	413.3	302.3	250.9	252.7
87.5°	45.1	60.5	93.0	100.2	91.1	155.2	278.9	241.0	194.0	131.8	121.8
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)