

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: P522737

Luminaire Tested: **GALN-SA4B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522737
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-SA4B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 16559 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

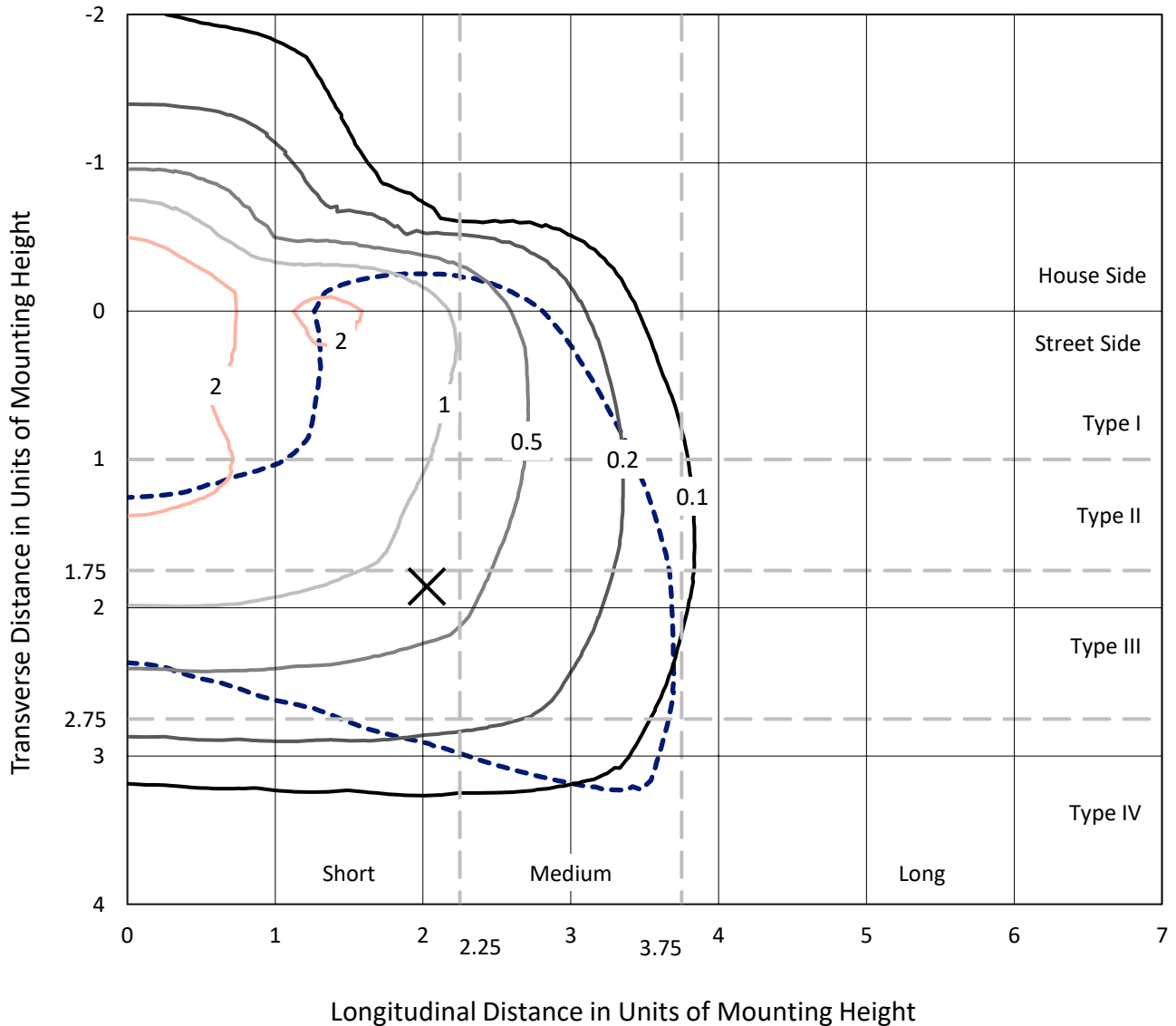
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

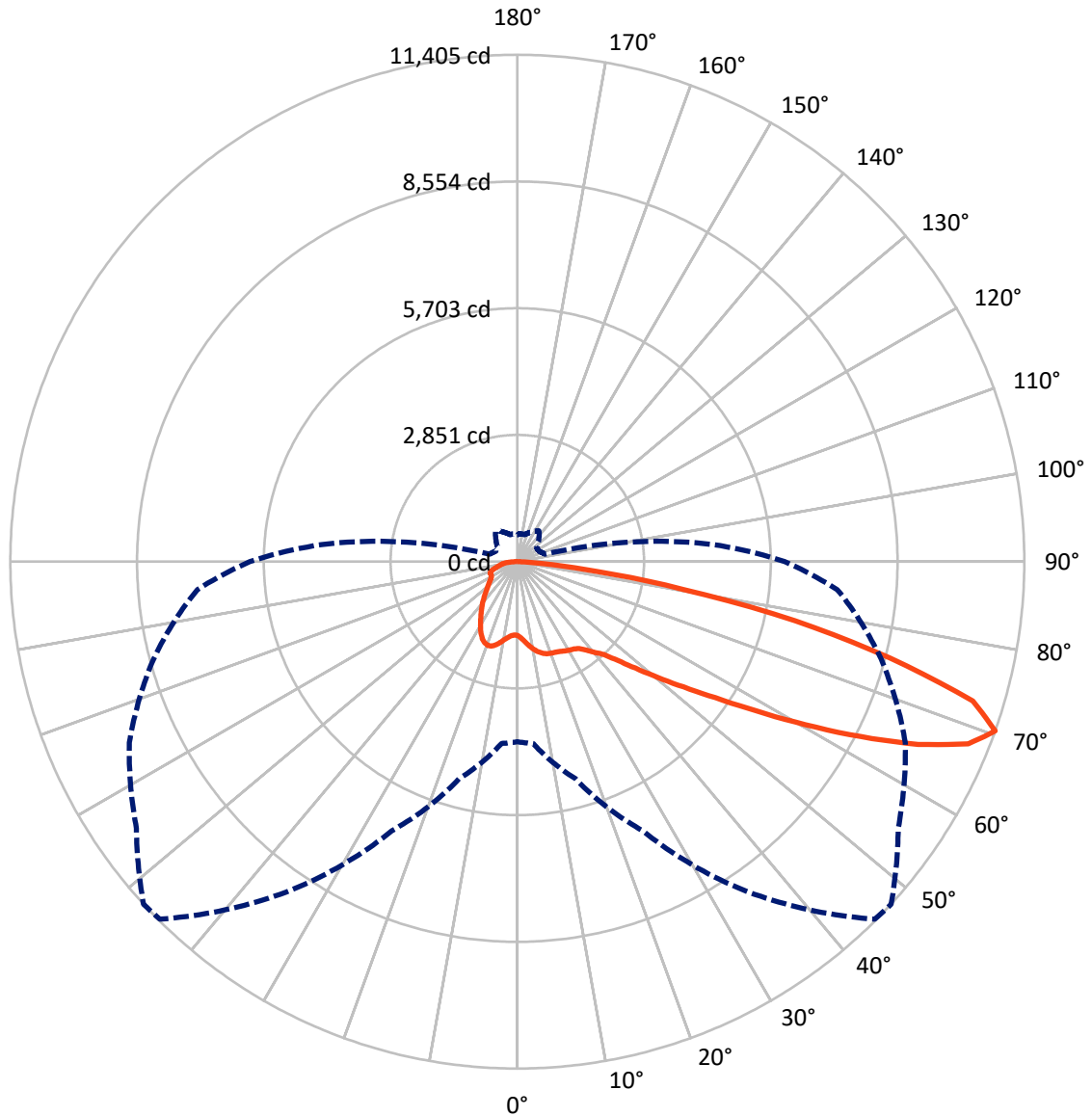
× Max cd
 - - - 1/2 Max cd



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	3749.3	0.0	3749.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12809.7	0.0	12809.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	16559.0	0.0	16559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.0
10°-20°	572.8	3.5
20°-30°	952.6	5.8
30°-40°	1350.2	8.2
40°-50°	1993.2	12.0
50°-60°	3452.3	20.8
60°-70°	4876.5	29.4
70°-80°	2803.3	16.9
80°-90°	386.8	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°	16559.0	100.0
0°-180°	16559.0	100.0

Coefficient of Utilization



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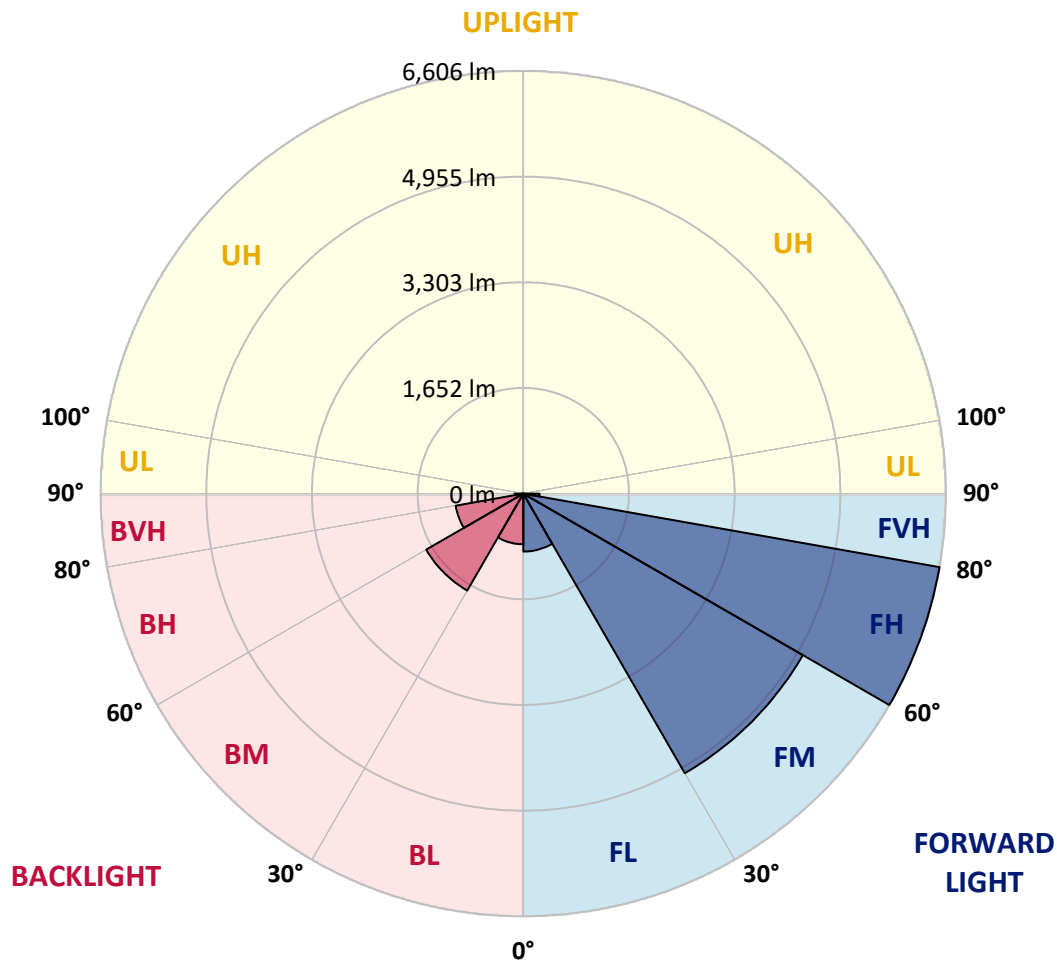
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.5	5.5			
FM	(30°-60°)	5045.2	30.5			
FH	(60°-80°)	6606.3	39.9			G3/7500
FVH	(80°-90°)	252.7	1.5			G3/500
BL	(0°-30°)	791.3	4.8	B2/1000		
BM	(30°-60°)	1750.5	10.6	B2/2500		
BH	(60°-80°)	1073.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	134.1	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°	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3
2.5°	1769.5	1763.3	1762.5	1749.2	1742.1	1728.8	1723.5	1711.1	1696.0	1680.9	1666.8
5°	1908.7	1908.7	1902.5	1883.8	1854.6	1824.5	1811.2	1787.3	1744.7	1710.2	1680.9
7.5°	2051.3	2053.1	2040.7	2013.2	1971.6	1922.8	1910.4	1875.0	1814.7	1764.2	1720.8
10°	2174.5	2174.5	2157.7	2120.4	2068.2	2015.0	2002.6	1962.7	1895.4	1832.5	1775.7
12.5°	2268.4	2268.4	2246.3	2197.5	2140.8	2093.0	2078.8	2040.7	1977.8	1907.8	1836.0
15°	2329.6	2325.1	2300.3	2245.4	2190.4	2148.8	2139.0	2107.1	2049.6	1978.7	1898.0
17.5°	2332.2	2330.4	2306.5	2260.4	2212.6	2184.2	2178.0	2156.8	2111.6	2044.2	1959.2
20°	2280.8	2284.4	2268.4	2235.6	2212.6	2200.2	2197.5	2190.4	2158.5	2095.6	2010.6
22.5°	2225.9	2232.1	2217.0	2199.3	2197.5	2209.9	2211.7	2213.5	2193.1	2132.0	2054.0
25°	2212.6	2217.0	2202.0	2186.0	2195.8	2228.5	2235.6	2242.7	2226.8	2175.4	2105.4
27.5°	2279.9	2276.4	2247.2	2212.6	2218.8	2263.1	2272.8	2280.8	2272.8	2228.5	2169.2
30°	2470.4	2458.9	2400.4	2299.4	2267.5	2298.5	2308.3	2330.4	2330.4	2297.7	2238.3
32.5°	2789.4	2767.3	2660.1	2461.6	2350.8	2332.2	2342.0	2378.3	2396.9	2371.2	2306.5
35°	3176.7	3153.6	3000.3	2733.6	2503.2	2399.6	2396.9	2437.7	2487.3	2429.7	2345.5
37.5°	3565.7	3541.7	3357.4	3057.9	2725.6	2541.3	2525.4	2539.6	2560.8	2455.4	2399.6
40°	3954.7	3926.3	3765.0	3420.3	2997.7	2729.2	2687.5	2623.7	2614.9	2539.6	2504.1
42.5°	4340.1	4314.4	4232.9	3827.1	3323.8	2912.6	2848.8	2738.9	2772.6	2727.4	2696.4
45°	4729.1	4730.9	4644.1	4283.4	3717.2	3251.1	3165.2	2993.2	3073.0	3056.2	3073.9
47.5°	5073.8	5069.4	5038.4	4726.5	4205.4	3687.1	3576.3	3376.9	3513.4	3575.4	3711.0
50°	5407.9	5405.2	5407.0	5228.9	4772.5	4205.4	4083.2	3874.0	4181.5	4396.8	4639.6
52.5°	5886.4	5901.4	5794.2	5747.2	5461.9	4817.7	4683.0	4466.8	4971.0	5310.4	5784.5
55°	6366.6	6354.2	6270.0	6318.8	6183.2	5542.6	5401.7	5229.8	5850.0	6221.3	6933.7
57.5°	6649.3	6653.7	6739.7	6978.0	7073.7	6446.4	6318.8	6185.9	6838.0	7101.2	7956.3
60°	6903.6	6924.0	7171.2	7621.3	7881.0	7556.7	7443.2	7313.9	7744.5	7849.1	8844.2
62.5°	6983.4	7046.3	7477.8	8151.2	8667.8	8809.6	8668.7	8383.4	8607.6	8566.8	9445.8
65°	6585.5	6671.4	7445.0	8349.7	9370.5	9998.8	9909.3	9379.4	9343.0	9097.6	9544.2
67.5°	5538.1	5624.1	6617.4	7933.3	9661.2	11028.4	10938.9	10106.0	9789.6	9147.2	8799.9
70°	4052.1	4106.2	5056.1	6679.4	9077.2	11374.0	11405.0	10460.4	9630.1	8472.9	7225.3
72.5°	2334.9	2454.5	3120.0	4699.0	7415.8	10500.3	10715.6	9723.2	8621.8	7068.4	5051.7
75°	1004.0	1006.6	1442.6	2591.8	5022.4	8440.1	8648.3	8060.0	6770.7	4887.7	2697.3
77.5°	477.6	486.5	634.4	1157.2	2764.6	5831.4	6393.2	5694.1	4330.4	2348.2	1019.0
80°	310.1	316.3	388.1	574.2	1355.7	3381.4	3773.0	3284.8	1910.4	839.1	439.5
82.5°	187.9	189.6	259.6	350.9	746.1	1531.2	1805.0	1425.7	815.2	502.4	258.7
85°	114.3	115.2	157.7	217.1	452.8	529.0	543.2	538.7	478.5	328.7	138.2
87.5°	54.9	56.7	81.5	102.8	178.1	163.9	155.1	179.9	226.0	177.2	59.4
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°	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3	1662.3
2.5°	1660.6	1657.9	1651.7	1649.0	1647.3	1648.1	1647.3	1647.3	1648.1	1648.1	1648.1
5°	1668.5	1664.1	1654.3	1654.3	1659.7	1672.1	1683.6	1692.5	1702.2	1701.3	1701.3
7.5°	1703.1	1695.1	1683.6	1687.1	1700.4	1719.9	1740.3	1759.8	1779.3	1781.1	1780.2
10°	1753.6	1745.6	1733.2	1737.6	1758.9	1788.2	1813.8	1842.2	1863.5	1869.7	1867.9
12.5°	1811.2	1795.2	1784.6	1797.0	1830.7	1869.7	1894.5	1915.7	1930.8	1939.7	1936.1
15°	1869.7	1854.6	1842.2	1867.9	1908.7	1945.0	1957.4	1960.9	1963.6	1972.5	1970.7
17.5°	1926.4	1906.0	1901.6	1935.2	1974.2	1990.2	1983.1	1968.0	1956.5	1963.6	1962.7
20°	1976.9	1960.9	1959.2	1992.8	2007.9	1992.8	1962.7	1936.1	1915.7	1917.5	1916.6
22.5°	2024.7	2012.3	2014.1	2028.3	2004.4	1953.0	1903.3	1867.0	1844.9	1849.3	1851.9
25°	2077.9	2065.5	2069.9	2046.9	1968.0	1878.5	1806.8	1775.7	1766.9	1775.7	1781.9
27.5°	2147.0	2139.0	2136.4	2047.8	1903.3	1768.7	1687.1	1675.6	1683.6	1703.1	1712.8
30°	2221.5	2221.5	2207.3	2032.7	1814.7	1636.6	1565.7	1567.5	1595.0	1622.4	1632.2
32.5°	2293.2	2308.3	2264.0	1992.0	1700.4	1508.1	1454.1	1455.9	1479.8	1513.5	1522.3
35°	2352.6	2396.0	2312.7	1917.5	1565.7	1400.0	1359.3	1335.4	1336.2	1361.9	1369.0
37.5°	2434.1	2514.8	2341.1	1806.8	1422.2	1307.9	1261.8	1220.2	1192.7	1182.1	1182.1
40°	2575.9	2694.6	2348.2	1642.8	1286.6	1220.2	1154.6	1105.0	1051.8	1004.0	995.1
42.5°	2816.0	2965.8	2334.0	1454.1	1164.3	1123.6	1059.8	998.6	925.1	857.7	852.4
45°	3241.4	3318.4	2295.9	1258.3	1055.3	1030.5	968.5	902.1	824.1	763.8	759.4
47.5°	3922.8	3813.8	2245.4	1084.6	956.1	949.0	901.2	824.1	746.1	704.4	700.0
50°	4917.9	4593.5	2238.3	958.8	876.4	879.9	840.9	770.0	701.8	667.2	661.9
52.5°	6115.9	5535.5	2285.3	870.2	806.4	819.6	800.1	734.6	674.3	645.1	639.8
55°	7278.4	6382.6	2313.6	801.0	740.8	765.6	768.2	713.3	658.4	629.1	625.6
57.5°	8222.1	7020.6	2187.8	738.1	684.1	722.2	741.7	700.9	650.4	628.2	624.7
60°	8878.7	7321.8	1829.8	682.3	642.4	687.6	731.9	701.8	669.9	672.6	674.3
62.5°	9087.8	7188.0	1372.6	640.7	614.1	676.1	747.9	738.1	705.3	725.7	729.3
65°	8741.4	6635.1	995.1	607.9	589.3	684.1	795.7	764.7	692.9	708.0	708.0
67.5°	7581.5	5716.2	774.5	577.7	560.9	699.1	843.6	762.0	663.7	681.4	665.5
70°	6014.0	4421.6	645.1	544.1	530.8	677.0	848.0	734.6	629.1	632.7	602.5
72.5°	3991.0	2907.3	554.7	512.2	484.7	608.8	811.7	699.1	595.5	575.1	545.0
75°	1955.6	1449.7	483.8	472.3	424.4	529.9	762.0	665.5	559.1	527.2	510.4
77.5°	757.6	616.7	412.9	421.8	369.5	467.0	696.5	617.6	511.3	467.9	454.6
80°	367.7	350.0	338.5	351.8	303.9	397.9	636.2	576.0	467.0	419.1	399.6
82.5°	228.6	216.2	259.6	273.8	233.9	363.3	603.4	540.5	411.2	347.4	331.4
85°	116.1	124.1	173.7	187.0	167.5	288.9	497.1	405.8	296.8	246.3	248.1
87.5°	44.3	59.4	91.3	98.4	89.5	152.4	273.8	236.6	190.5	129.4	119.6
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)