

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: P458682

Luminaire Tested: **GALN-SA2B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10908 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

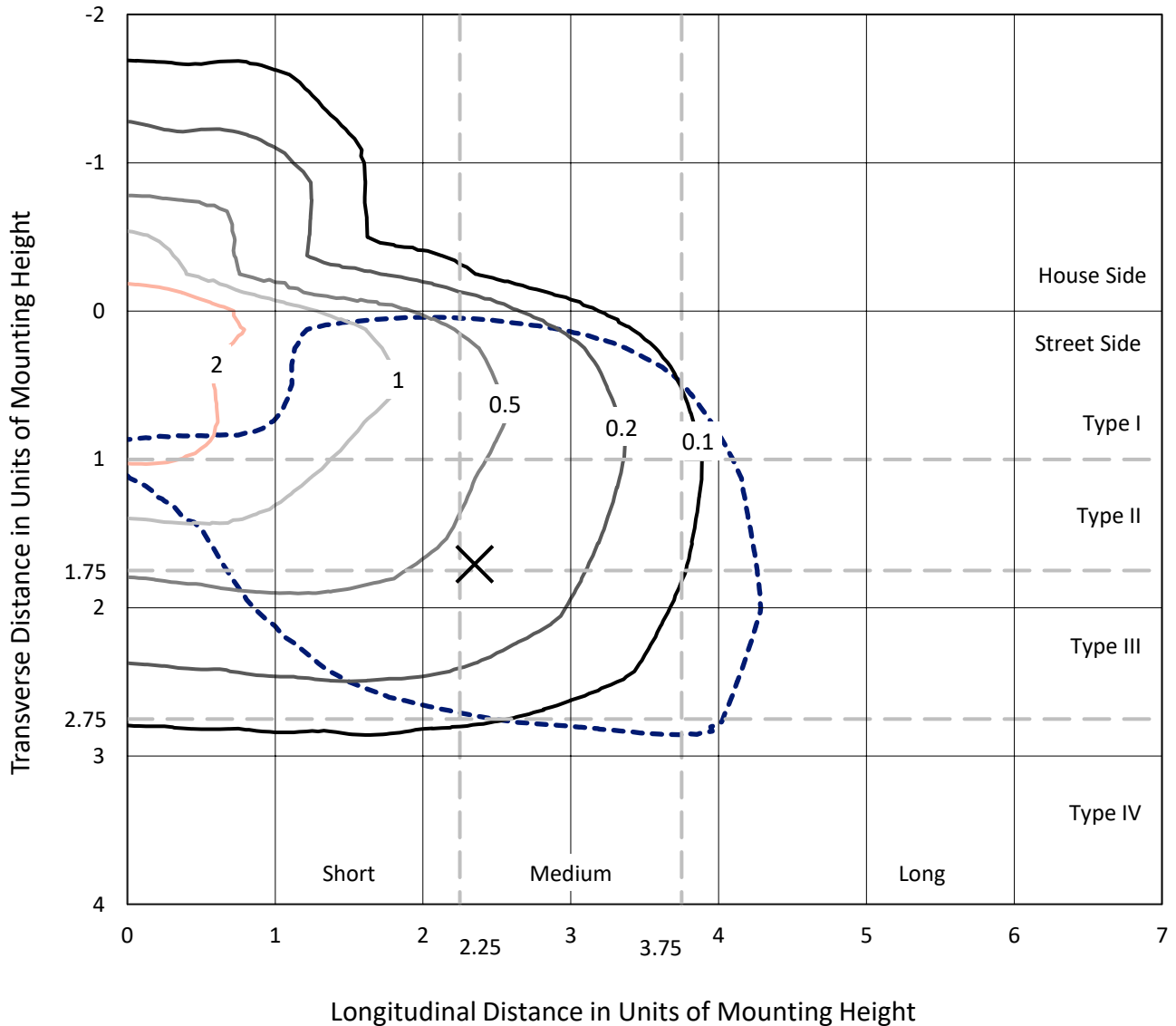
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

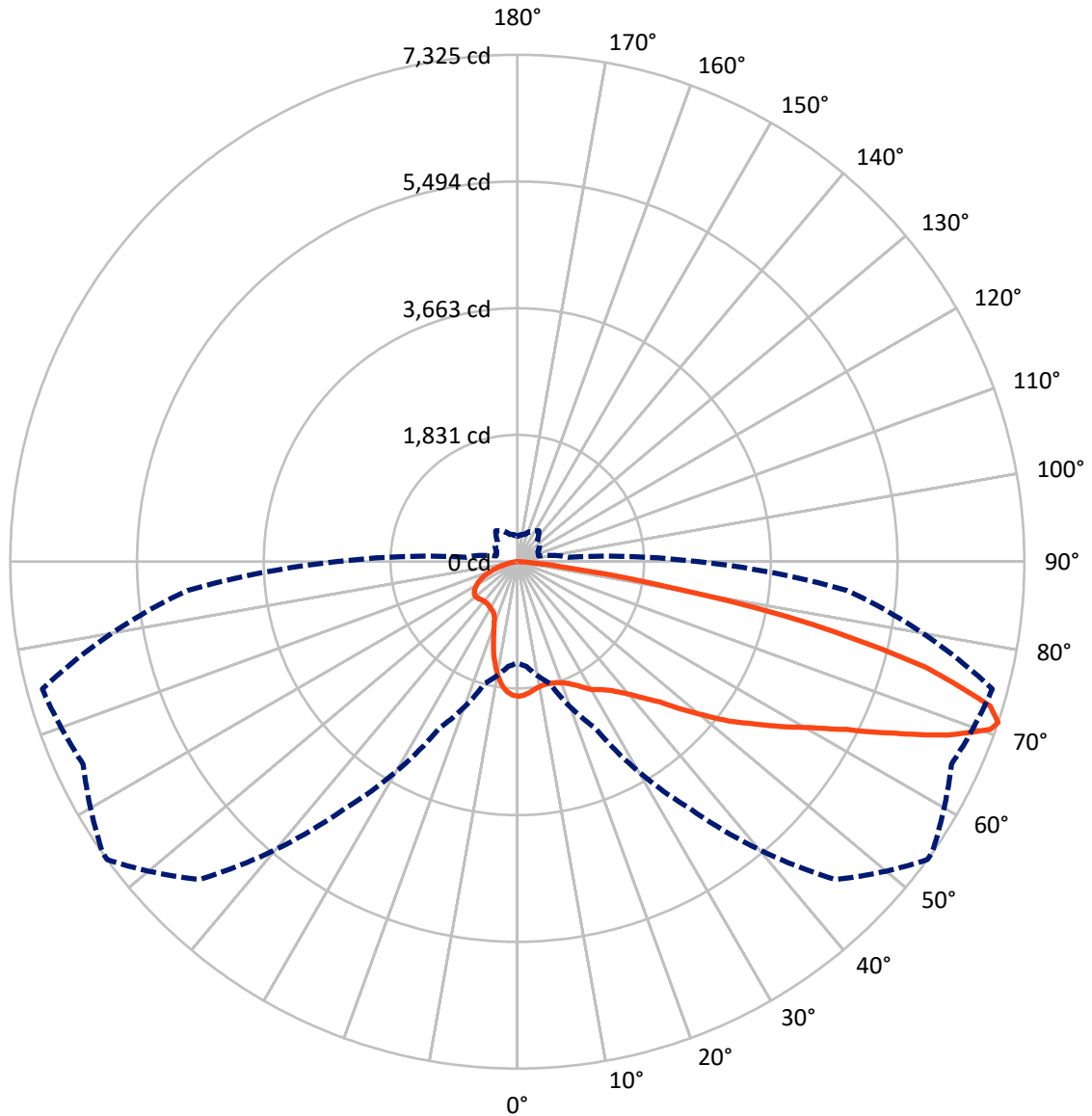
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1969.4	0.0	1969.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8938.6	0.0	8938.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	10908.0	0.0	10908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	1.6
10°-20°	457.9	4.2
20°-30°	762.5	7.0
30°-40°	1127.5	10.3
40°-50°	1588.1	14.6
50°-60°	2126.5	19.5
60°-70°	2680.3	24.6
70°-80°	1830.7	16.8
80°-90°	161.0	1.5
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°	10908.0	100.0
0°-180°	10908.0	100.0

Coefficient of Utilization



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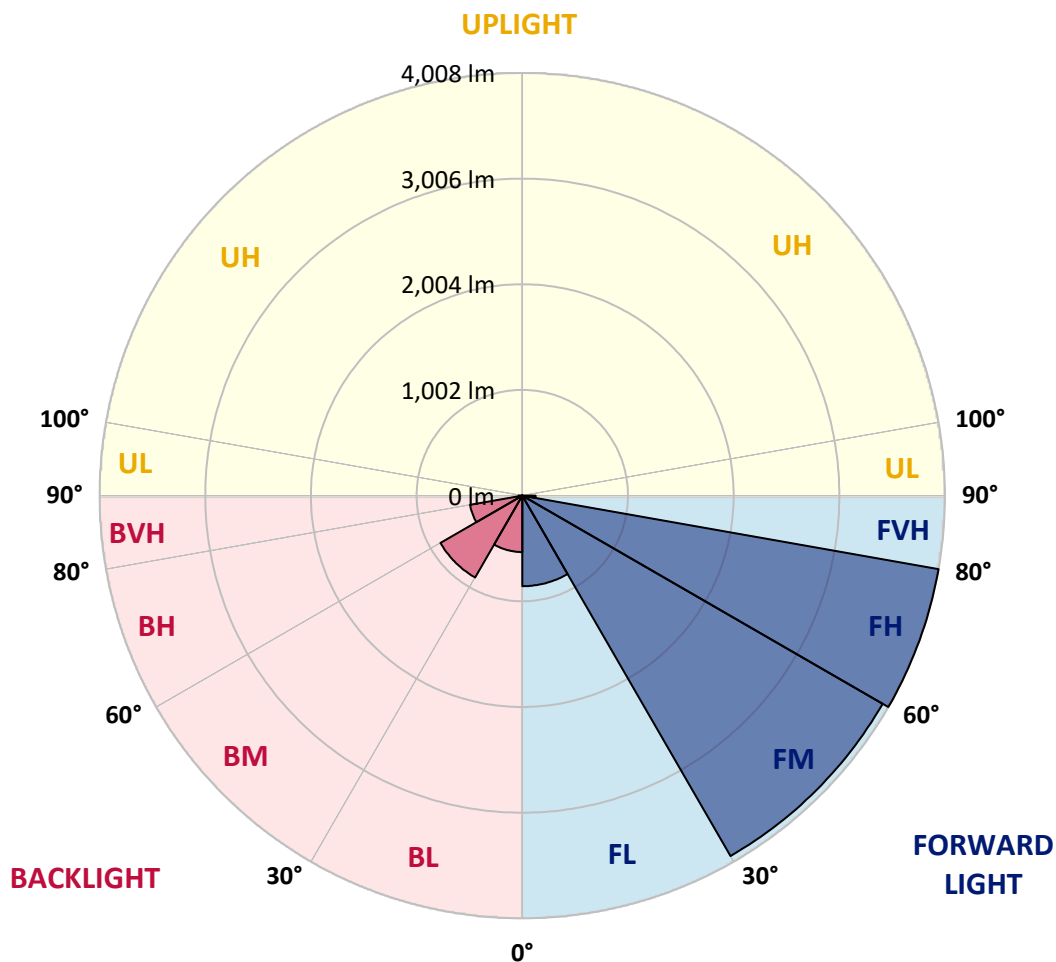
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.6	7.9			
FM	(30°-60°)	3946.1	36.2			
FH	(60°-80°)	4008.0	36.7			G2/5000
FVH	(80°-90°)	125.8	1.2			G2/225
BL	(0°-30°)	535.2	4.9	B2/1000		
BM	(30°-60°)	896.0	8.2	B1/1000		
BH	(60°-80°)	503.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	35.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1880.2	1889.0	1891.4	1897.2	1909.6	1919.6	1929.7	1928.5	1942.6	1948.5	1953.8
5°	1796.5	1798.8	1807.7	1819.5	1841.3	1869.0	1896.1	1896.7	1931.4	1959.1	1972.7
7.5°	1735.2	1742.9	1748.8	1761.1	1784.1	1814.2	1857.2	1860.7	1922.6	1977.4	2006.2
10°	1695.1	1704.0	1710.5	1725.8	1748.8	1782.3	1828.9	1835.4	1916.1	2006.2	2056.9
12.5°	1658.6	1667.5	1673.3	1693.4	1723.4	1764.7	1817.1	1824.8	1918.5	2039.8	2112.3
15°	1681.0	1688.1	1685.7	1691.6	1711.6	1758.8	1821.8	1829.5	1927.3	2072.2	2167.1
17.5°	1780.6	1786.5	1767.0	1744.6	1735.2	1770.0	1836.6	1844.8	1945.0	2105.8	2223.1
20°	1927.3	1943.2	1900.8	1850.7	1805.3	1810.0	1867.2	1876.0	1969.7	2139.4	2280.2
22.5°	2118.2	2130.0	2078.1	1995.6	1912.0	1869.0	1913.2	1918.5	2006.8	2183.0	2342.7
25°	2342.7	2349.8	2277.9	2171.8	2051.0	1969.7	1976.2	1985.6	2068.1	2232.5	2398.1
27.5°	2560.7	2583.1	2500.0	2370.4	2211.3	2075.8	2062.8	2068.7	2134.7	2260.2	2436.4
30°	2819.4	2817.6	2729.8	2579.5	2375.7	2191.3	2144.7	2143.5	2170.6	2273.7	2464.1
32.5°	3025.6	3049.7	2963.7	2799.9	2563.6	2310.9	2201.3	2198.9	2198.3	2297.3	2505.3
35°	3260.1	3263.6	3184.7	3019.7	2766.9	2461.1	2280.2	2268.4	2254.9	2348.0	2561.3
37.5°	3469.8	3486.3	3413.9	3228.9	2966.7	2617.3	2388.6	2381.0	2339.7	2435.8	2650.8
40°	3633.6	3646.0	3602.4	3426.2	3163.4	2785.8	2526.5	2512.4	2462.3	2579.5	2770.4
42.5°	3687.3	3712.6	3729.7	3643.1	3389.7	2985.5	2696.2	2678.5	2640.2	2797.6	2908.3
45°	3691.4	3731.4	3821.6	3825.7	3617.1	3224.7	2894.2	2881.8	2878.9	3076.8	3102.2
47.5°	3660.2	3700.8	3852.2	3934.1	3819.8	3466.3	3179.9	3160.5	3162.3	3422.1	3319.6
50°	3584.7	3633.0	3816.9	4003.7	3978.3	3717.3	3481.6	3475.1	3511.7	3816.3	3545.3
52.5°	3442.7	3501.1	3780.3	4047.3	4096.2	3933.5	3824.5	3806.3	3898.8	4244.1	3792.1
55°	3049.7	3137.5	3646.6	4071.4	4208.1	4140.4	4133.3	4166.3	4288.8	4710.7	4063.8
57.5°	2844.7	2910.7	3356.1	4075.5	4349.5	4380.7	4493.9	4502.1	4716.6	5206.2	4370.7
60°	2732.7	2791.1	3197.0	4048.4	4546.9	4678.3	4862.7	4892.2	5134.3	5743.0	4688.9
62.5°	2634.9	2685.0	3101.6	3954.8	4769.6	5119.6	5340.6	5354.7	5608.7	6335.7	5003.0
65°	2404.6	2461.7	2909.5	3861.1	4961.7	5671.1	5974.6	5958.1	6113.6	6847.2	5199.7
67.5°	2094.0	2166.5	2550.7	3537.6	5056.6	6273.9	6688.7	6668.0	6612.1	7182.4	5256.3
70°	1697.5	1736.4	2091.7	2978.4	4677.7	6590.3	7252.5	7230.7	6920.8	7226.6	4988.8
71°	1460.6	1521.3	1821.2	2645.5	4362.5	6493.6	7325.0	7319.1	6921.4	7104.7	4787.3
72.5°	1140.1	1177.2	1442.4	2049.8	3707.9	5944.5	7145.9	7168.3	6771.2	6765.9	4371.9
75°	721.2	737.7	905.0	1206.7	2034.5	4209.9	6100.1	6160.7	6012.3	5538.0	3251.2
77.5°	418.9	440.1	542.1	711.2	879.1	2284.9	4364.8	4430.8	4177.5	3049.1	1331.0
80°	243.9	267.5	357.1	413.0	403.6	847.9	2222.5	2335.0	1808.9	770.1	373.6
82.5°	135.5	151.4	251.0	251.6	215.1	276.9	699.4	731.8	516.1	310.5	152.6
85°	98.4	111.4	162.0	146.7	103.1	119.0	243.3	255.1	208.6	130.8	49.5
87.5°	34.8	49.5	89.0	70.7	28.3	24.7	70.1	57.2	53.0	36.5	11.2
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°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1956.8	1957.9	1952.0	1941.4	1930.8	1917.3	1902.0	1890.2	1884.9	1884.3	1883.7
5°	1978.0	1980.9	1958.5	1925.5	1889.0	1844.2	1805.9	1762.3	1751.1	1733.4	1738.7
7.5°	2012.1	2010.4	1966.2	1896.1	1810.6	1715.8	1635.6	1589.1	1540.8	1527.2	1527.8
10°	2061.0	2049.8	1966.2	1836.0	1693.4	1552.6	1440.6	1369.9	1331.6	1299.8	1288.0
12.5°	2112.9	2084.6	1947.3	1751.7	1542.5	1369.9	1249.7	1154.3	1129.5	1103.6	1104.2
15°	2162.4	2115.3	1910.2	1633.3	1379.9	1174.9	1058.2	1001.1	993.4	996.3	995.8
17.5°	2207.2	2137.1	1853.6	1501.3	1190.2	1007.5	945.7	949.8	970.4	985.2	986.9
20°	2252.5	2150.0	1769.4	1324.5	1011.1	906.2	908.6	941.0	972.2	992.2	995.2
22.5°	2295.5	2155.9	1670.4	1153.7	881.5	863.2	898.0	932.7	963.4	982.8	985.7
25°	2323.8	2142.4	1530.2	975.1	817.8	847.9	884.4	913.9	939.8	959.8	964.5
27.5°	2331.5	2098.8	1356.4	830.8	788.4	833.1	866.7	888.5	908.6	927.4	930.9
30°	2327.4	2034.5	1165.5	745.9	771.3	816.1	842.0	857.9	882.0	896.8	899.7
32.5°	2320.9	1959.7	966.3	700.6	757.1	800.1	815.5	829.6	829.0	823.1	827.2
35°	2323.2	1870.1	804.9	673.5	744.8	788.4	801.3	783.6	733.0	730.6	728.3
37.5°	2335.6	1781.8	687.6	654.6	738.3	786.6	793.7	712.4	667.6	646.9	641.6
40°	2367.4	1678.6	610.4	640.5	737.7	800.1	758.9	676.4	590.4	550.3	547.4
42.5°	2409.9	1577.3	563.3	631.6	744.8	820.8	744.8	625.7	532.1	508.5	504.9
45°	2472.9	1461.2	537.4	627.5	755.4	828.4	740.0	588.6	508.5	489.6	489.6
47.5°	2544.2	1350.5	523.2	624.6	768.9	823.1	698.2	576.8	497.3	499.6	510.8
50°	2614.9	1254.4	512.6	618.1	780.7	820.2	681.1	576.2	500.2	530.3	550.3
52.5°	2696.8	1186.7	499.6	607.5	780.7	801.3	675.8	588.0	508.5	517.3	526.2
55°	2795.8	1165.5	483.1	584.5	766.6	754.2	672.9	605.1	514.4	493.8	497.3
57.5°	2926.6	1199.6	467.2	555.6	734.2	705.3	671.7	609.8	500.8	483.7	480.2
60°	3078.6	1267.4	462.5	526.2	690.0	663.4	664.6	596.3	482.0	464.3	467.2
62.5°	3185.2	1308.0	459.6	503.8	641.6	617.5	647.5	579.8	473.7	458.4	461.3
65°	3185.2	1258.5	432.5	469.6	579.2	562.1	626.9	559.2	463.1	445.4	442.5
67.5°	3064.5	1114.2	391.2	418.3	510.3	499.1	598.0	534.4	447.2	433.7	426.6
70°	2749.8	844.9	339.4	358.2	423.1	433.1	560.9	500.8	420.7	404.2	393.6
71°	2611.4	735.9	317.6	327.6	389.5	404.2	543.2	486.7	408.9	385.3	366.5
72.5°	2344.5	619.8	284.6	288.7	332.9	359.4	506.1	459.6	386.5	352.9	331.7
75°	1781.2	452.5	229.2	226.8	246.3	285.2	428.4	409.5	338.8	293.4	281.1
77.5°	769.5	246.3	171.5	173.2	167.3	216.2	337.0	351.8	290.5	238.6	227.4
80°	233.3	142.0	117.3	119.6	111.9	144.9	237.5	275.7	233.3	185.6	170.3
82.5°	119.6	84.8	80.1	79.0	71.3	81.9	143.8	188.5	166.7	116.1	102.5
85°	51.9	45.4	39.5	38.3	33.6	29.5	51.3	94.3	88.4	64.8	61.9
87.5°	13.0	11.8	7.7	7.1	4.1	0.6	0.0	0.0	0.0	0.0	0.0
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)