

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: P522698

Luminaire Tested: **GALN-SA3B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522698
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-SA3B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 16999 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

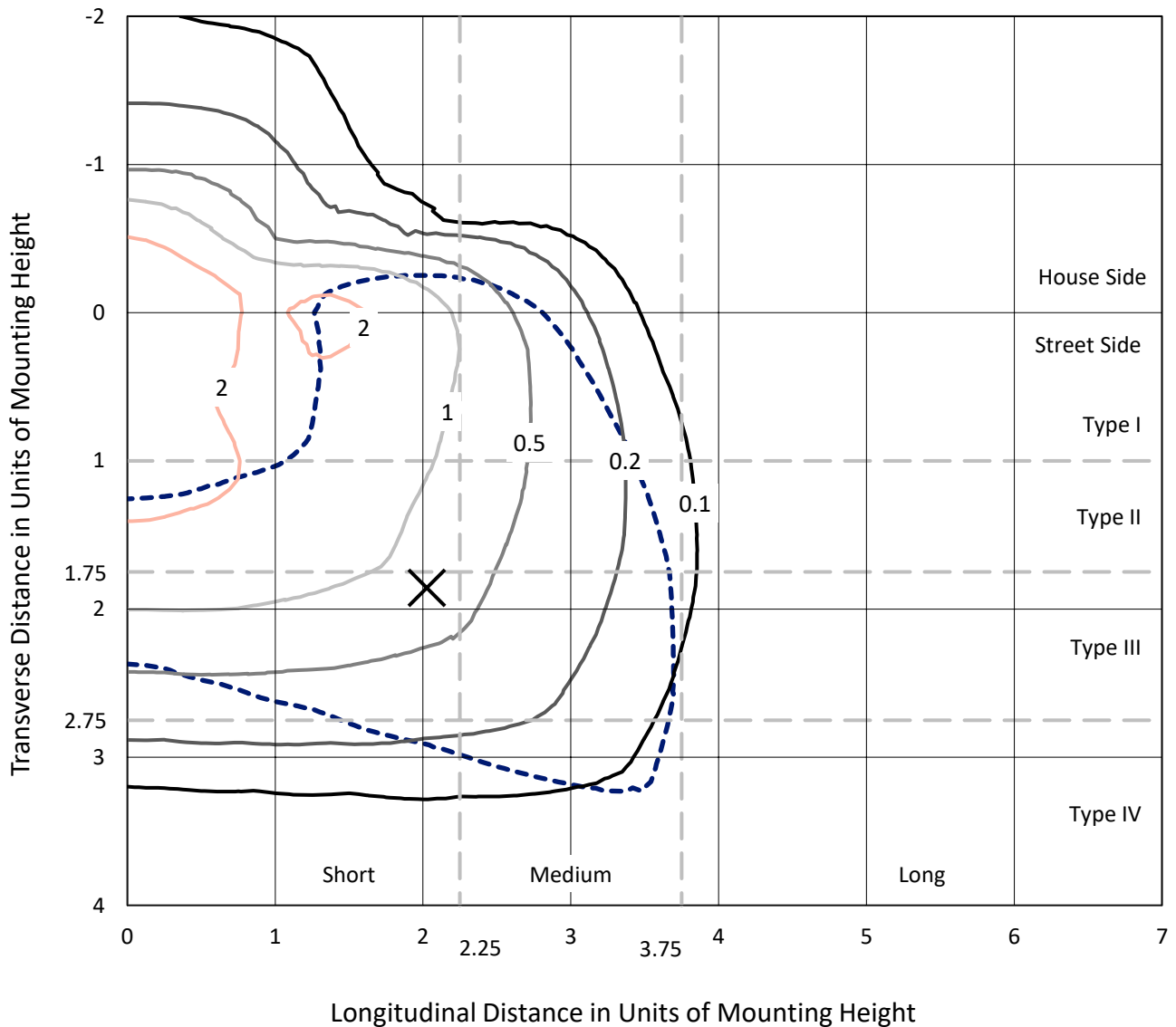
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

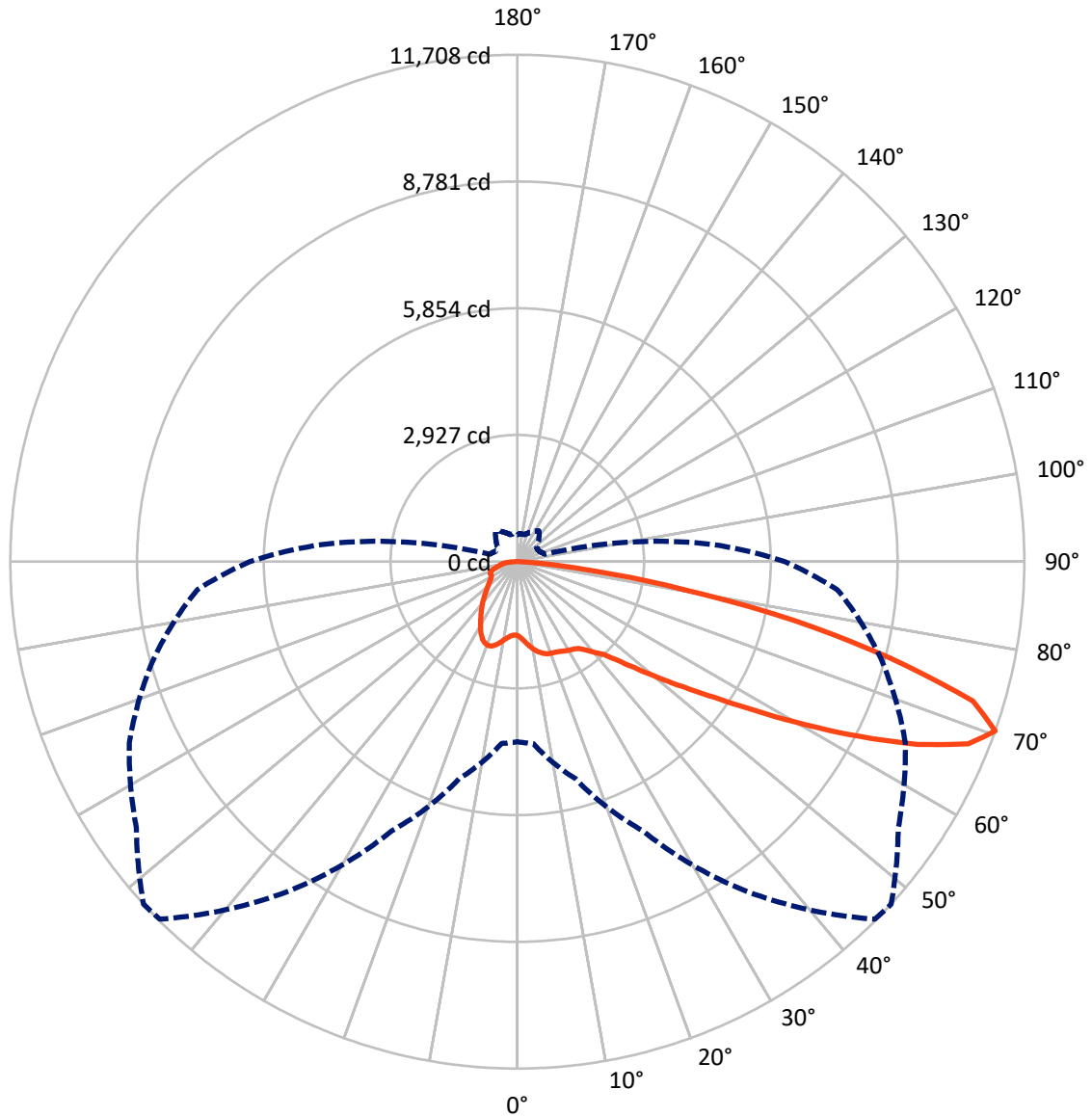
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3848.9	0.0	3848.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13150.1	0.0	13150.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	16999.0	0.0	16999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.0
10°-20°	588.1	3.5
20°-30°	977.9	5.8
30°-40°	1386.1	8.2
40°-50°	2046.2	12.0
50°-60°	3544.0	20.8
60°-70°	5006.0	29.4
70°-80°	2877.7	16.9
80°-90°	397.1	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°	16999.0	100.0
0°-180°	16999.0	100.0

Coefficient of Utilization



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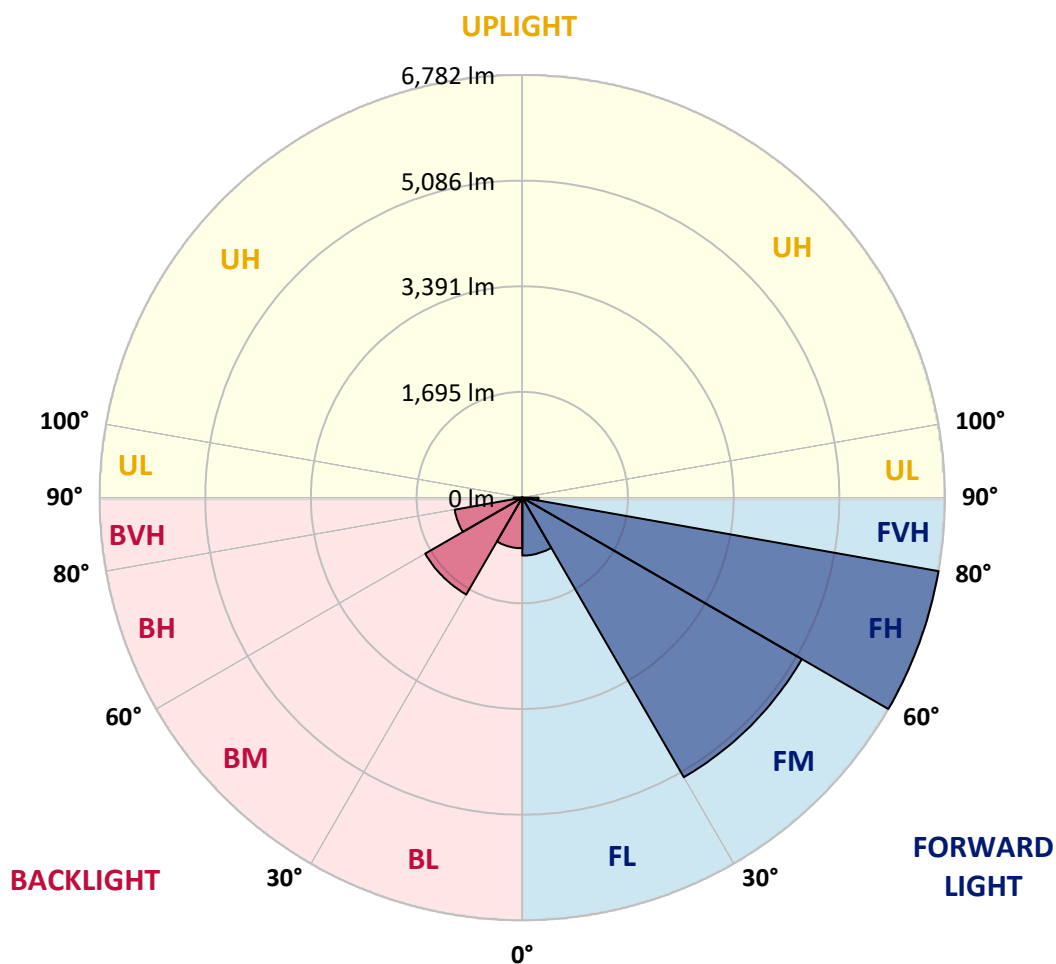
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.6	5.5			
FM (30°-60°)	5179.3	30.5			
FH (60°-80°)	6781.9	39.9			G3/7500
FVH (80°-90°)	259.4	1.5			G3/500
BL (0°-30°)	812.3	4.8	B2/1000		
BM (30°-60°)	1797.0	10.6	B2/2500		
BH (60°-80°)	1101.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.7	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°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1816.6	1810.2	1809.3	1795.6	1788.4	1774.7	1769.3	1756.5	1741.1	1725.6	1711.0
5°	1959.4	1959.4	1953.0	1933.9	1903.9	1873.0	1859.3	1834.8	1791.1	1755.6	1725.6
7.5°	2105.8	2107.6	2094.9	2066.7	2024.0	1973.9	1961.2	1924.8	1863.0	1811.1	1766.5
10°	2232.3	2232.3	2215.0	2176.8	2123.1	2068.5	2055.8	2014.9	1945.7	1881.1	1822.9
12.5°	2328.7	2328.7	2306.0	2255.9	2197.7	2148.6	2134.0	2094.9	2030.3	1958.5	1884.8
15°	2391.5	2386.9	2361.4	2305.0	2248.6	2205.9	2195.9	2163.1	2104.0	2031.2	1948.5
17.5°	2394.2	2392.4	2367.8	2320.5	2271.4	2242.3	2235.9	2214.1	2167.7	2098.6	2011.2
20°	2341.4	2345.1	2328.7	2295.0	2271.4	2258.6	2255.9	2248.6	2215.9	2151.3	2064.0
22.5°	2285.0	2291.4	2275.9	2257.7	2255.9	2268.7	2270.5	2272.3	2251.4	2188.6	2108.6
25°	2271.4	2275.9	2260.5	2244.1	2254.1	2287.8	2295.0	2302.3	2285.9	2233.2	2161.3
27.5°	2340.5	2336.9	2306.9	2271.4	2277.8	2323.2	2333.2	2341.4	2333.2	2287.8	2226.8
30°	2536.1	2524.3	2464.2	2360.5	2327.8	2359.6	2369.6	2392.4	2392.4	2358.7	2297.8
32.5°	2863.6	2840.8	2730.8	2527.0	2413.3	2394.2	2404.2	2441.5	2460.6	2434.2	2367.8
35°	3261.1	3237.4	3080.1	2806.3	2569.7	2463.3	2460.6	2502.4	2553.4	2494.2	2407.8
37.5°	3660.4	3635.9	3446.6	3139.2	2798.1	2608.9	2592.5	2607.0	2628.9	2520.6	2463.3
40°	4059.7	4030.6	3865.1	3511.2	3077.3	2801.7	2759.0	2693.5	2684.4	2607.0	2570.7
42.5°	4455.4	4429.1	4345.4	3928.8	3412.1	2990.0	2924.5	2811.7	2846.3	2799.9	2768.1
45°	4854.8	4856.6	4767.5	4397.2	3816.0	3337.5	3249.3	3072.8	3154.7	3137.4	3155.6
47.5°	5208.6	5204.1	5172.2	4852.0	4317.2	3785.0	3671.3	3466.7	3606.7	3670.4	3809.6
50°	5551.6	5548.8	5550.7	5367.8	4899.4	4317.2	4191.6	3977.0	4292.6	4513.7	4762.9
52.5°	6042.8	6058.2	5948.2	5900.0	5607.1	4945.7	4807.5	4585.5	5103.1	5451.5	5938.2
55°	6535.8	6523.1	6436.7	6486.7	6347.5	5689.8	5545.2	5368.7	6005.5	6386.6	7118.0
57.5°	6826.0	6830.5	6918.8	7163.5	7261.7	6617.7	6486.7	6350.2	7019.7	7289.9	8167.7
60°	7087.0	7108.0	7361.8	7823.9	8090.4	7757.5	7641.0	7508.2	7950.3	8057.6	9079.2
62.5°	7168.9	7233.5	7676.5	8367.8	8898.2	9043.7	8899.1	8606.2	8836.3	8794.5	9696.8
65°	6760.5	6848.7	7642.8	8571.6	9619.5	10264.4	10172.6	9628.6	9591.3	9339.3	9797.8
67.5°	5685.3	5773.5	6793.2	8144.1	9917.9	11321.4	11229.6	10374.5	10049.8	9390.3	9033.7
70°	4159.8	4215.3	5190.4	6856.9	9318.4	11676.2	11708.0	10738.4	9886.0	8698.0	7417.2
72.5°	2396.9	2519.7	3202.9	4823.9	7612.8	10779.3	11000.3	9981.5	8850.9	7256.2	5185.9
75°	1030.6	1033.4	1480.9	2660.7	5155.9	8664.4	8878.1	8274.1	6950.6	5017.6	2769.0
77.5°	490.3	499.4	651.3	1188.0	2838.1	5986.4	6563.1	5845.4	4445.4	2410.6	1046.1
80°	318.4	324.7	398.4	589.5	1391.8	3471.2	3873.3	3372.1	1961.2	861.4	451.2
82.5°	192.8	194.7	266.5	360.2	765.9	1571.9	1852.9	1463.6	836.9	515.8	265.6
85°	117.3	118.3	161.9	222.9	464.8	543.1	557.6	553.1	491.2	337.5	141.9
87.5°	56.4	58.2	83.7	105.5	182.8	168.3	159.2	184.7	232.0	181.9	60.9
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°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1704.7	1701.9	1695.6	1692.9	1691.0	1691.9	1691.0	1691.0	1691.9	1691.9	1691.9
5°	1712.9	1708.3	1698.3	1698.3	1703.8	1716.5	1728.3	1737.4	1747.4	1746.5	1746.5
7.5°	1748.3	1740.2	1728.3	1732.0	1745.6	1765.6	1786.5	1806.6	1826.6	1828.4	1827.5
10°	1800.2	1792.0	1779.3	1783.8	1805.6	1835.7	1862.0	1891.2	1913.0	1919.4	1917.5
12.5°	1859.3	1842.9	1832.0	1844.8	1879.3	1919.4	1944.8	1966.7	1982.1	1991.2	1987.6
15°	1919.4	1903.9	1891.2	1917.5	1959.4	1996.7	2009.4	2013.0	2015.8	2024.9	2023.1
17.5°	1977.6	1956.6	1952.1	1986.7	2026.7	2043.1	2035.8	2020.3	2008.5	2015.8	2014.9
20°	2029.4	2013.0	2011.2	2045.8	2061.3	2045.8	2014.9	1987.6	1966.7	1968.5	1967.6
22.5°	2078.5	2065.8	2067.6	2082.2	2057.6	2004.9	1953.9	1916.6	1893.9	1898.4	1901.2
25°	2133.1	2120.4	2124.9	2101.3	2020.3	1928.4	1854.8	1822.9	1813.8	1822.9	1829.3
27.5°	2204.1	2195.9	2193.2	2102.2	1953.9	1815.7	1732.0	1720.1	1728.3	1748.3	1758.3
30°	2280.5	2280.5	2265.9	2086.7	1863.0	1680.1	1607.3	1609.2	1637.4	1665.6	1675.6
32.5°	2354.2	2369.6	2324.1	2044.9	1745.6	1548.2	1492.7	1494.5	1519.1	1553.7	1562.8
35°	2415.1	2459.7	2374.2	1968.5	1607.3	1437.2	1395.4	1370.8	1371.7	1398.1	1405.4
37.5°	2498.8	2581.6	2403.3	1854.8	1460.0	1342.6	1295.3	1252.6	1224.4	1213.5	1213.5
40°	2644.3	2766.2	2410.6	1686.5	1320.8	1252.6	1185.3	1134.3	1079.7	1030.6	1021.5
42.5°	2890.9	3044.6	2396.0	1492.7	1195.3	1153.4	1087.9	1025.2	949.7	880.5	875.1
45°	3327.5	3406.6	2356.9	1291.7	1083.4	1057.9	994.2	926.0	846.0	784.1	779.6
47.5°	4027.0	3915.1	2305.0	1113.4	981.5	974.2	925.1	846.0	765.9	723.2	718.6
50°	5048.5	4715.6	2297.8	984.2	899.6	903.3	863.3	790.5	720.4	685.0	679.5
52.5°	6278.4	5682.6	2346.0	893.3	827.8	841.4	821.4	754.1	692.2	662.2	656.8
55°	7471.8	6552.2	2375.1	822.3	760.5	785.9	788.7	732.3	675.9	645.8	642.2
57.5°	8440.6	7207.1	2245.9	757.7	702.2	741.4	761.4	719.5	667.7	644.9	641.3
60°	9114.6	7516.4	1878.4	700.4	659.5	705.9	751.4	720.4	687.7	690.4	692.2
62.5°	9329.3	7379.0	1409.0	657.7	630.4	694.1	767.7	757.7	724.1	745.0	748.6
65°	8973.7	6811.4	1021.5	624.0	604.9	702.2	816.9	785.0	711.3	726.8	726.8
67.5°	7782.9	5868.1	795.0	593.1	575.8	717.7	866.0	782.3	681.3	699.5	683.1
70°	6173.8	4539.1	662.2	558.5	544.9	695.0	870.5	754.1	645.8	649.5	618.6
72.5°	4097.0	2984.5	569.4	525.8	497.6	624.9	833.2	717.7	611.3	590.4	559.4
75°	2007.6	1488.2	496.7	484.8	435.7	544.0	782.3	683.1	574.0	541.2	524.0
77.5°	777.7	633.1	423.9	433.0	379.3	479.4	715.0	634.0	524.9	480.3	466.6
80°	377.5	359.3	347.5	361.1	312.0	408.4	653.1	591.3	479.4	430.3	410.3
82.5°	234.7	222.0	266.5	281.1	240.1	373.0	619.5	554.9	422.1	356.6	340.2
85°	119.2	127.4	178.3	191.9	171.9	296.5	510.3	416.6	304.7	252.9	254.7
87.5°	45.5	60.9	93.7	101.0	91.9	156.5	281.1	242.9	195.6	132.8	122.8
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)