

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: P522727

Luminaire Tested: **GALN-SA4A-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522727
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-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 18104 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

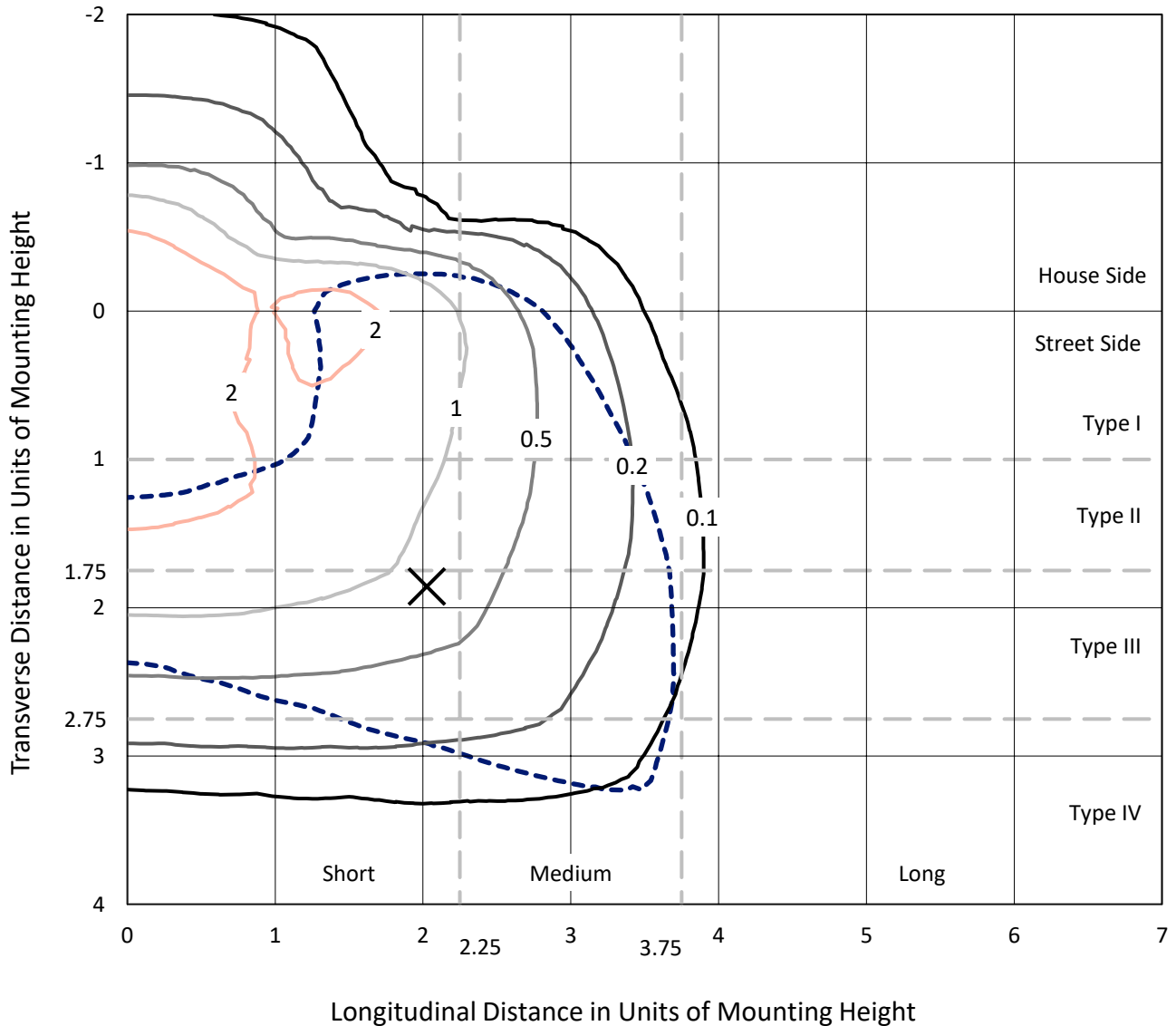
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

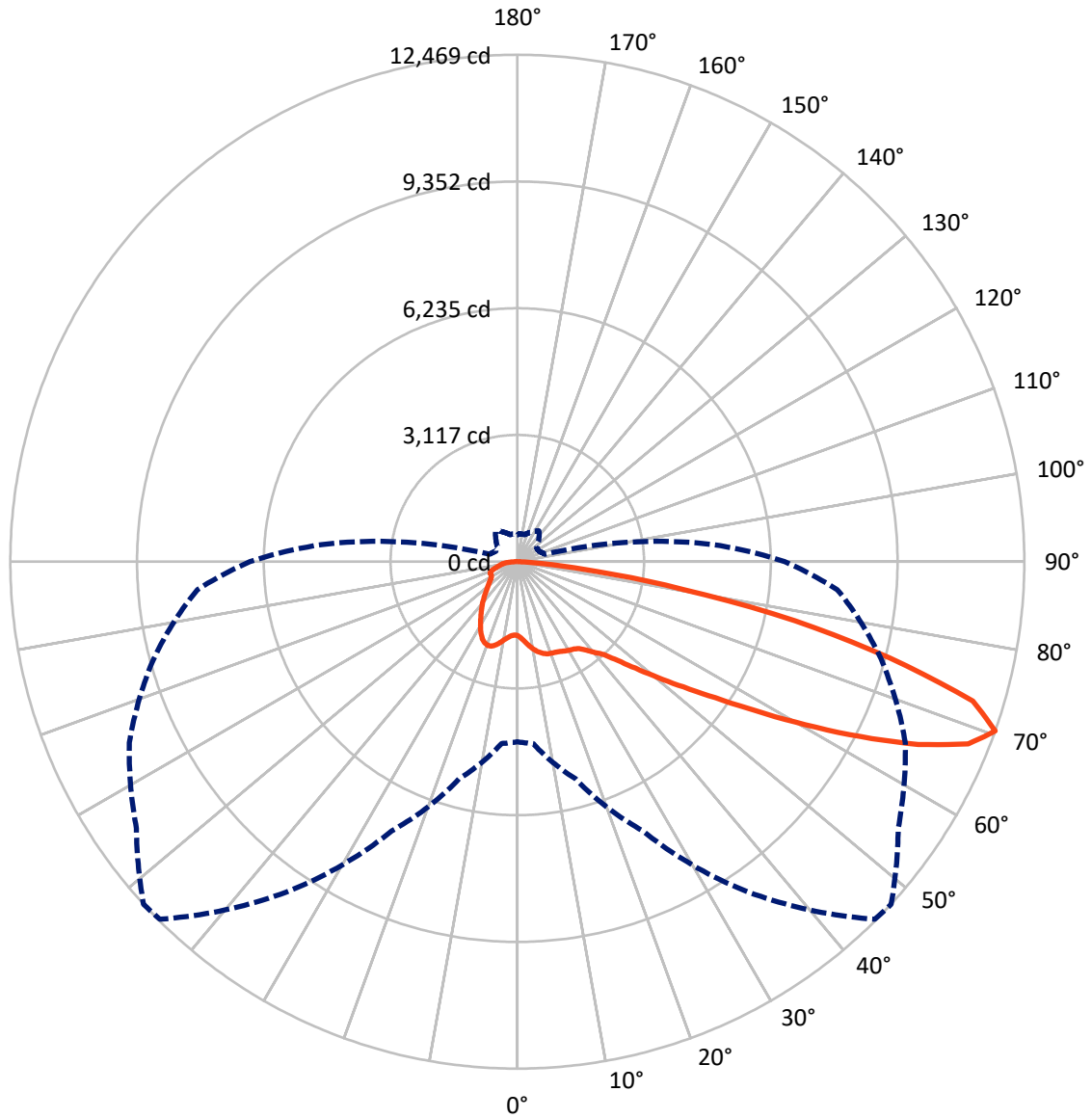
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	4099.1	0.0	4099.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14004.9	0.0	14004.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	18104.0	0.0	18104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.0
10°-20°	626.3	3.5
20°-30°	1041.5	5.8
30°-40°	1476.2	8.2
40°-50°	2179.2	12.0
50°-60°	3774.4	20.8
60°-70°	5331.5	29.4
70°-80°	3064.8	16.9
80°-90°	422.9	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°	18104.0	100.0
0°-180°	18104.0	100.0

Coefficient of Utilization



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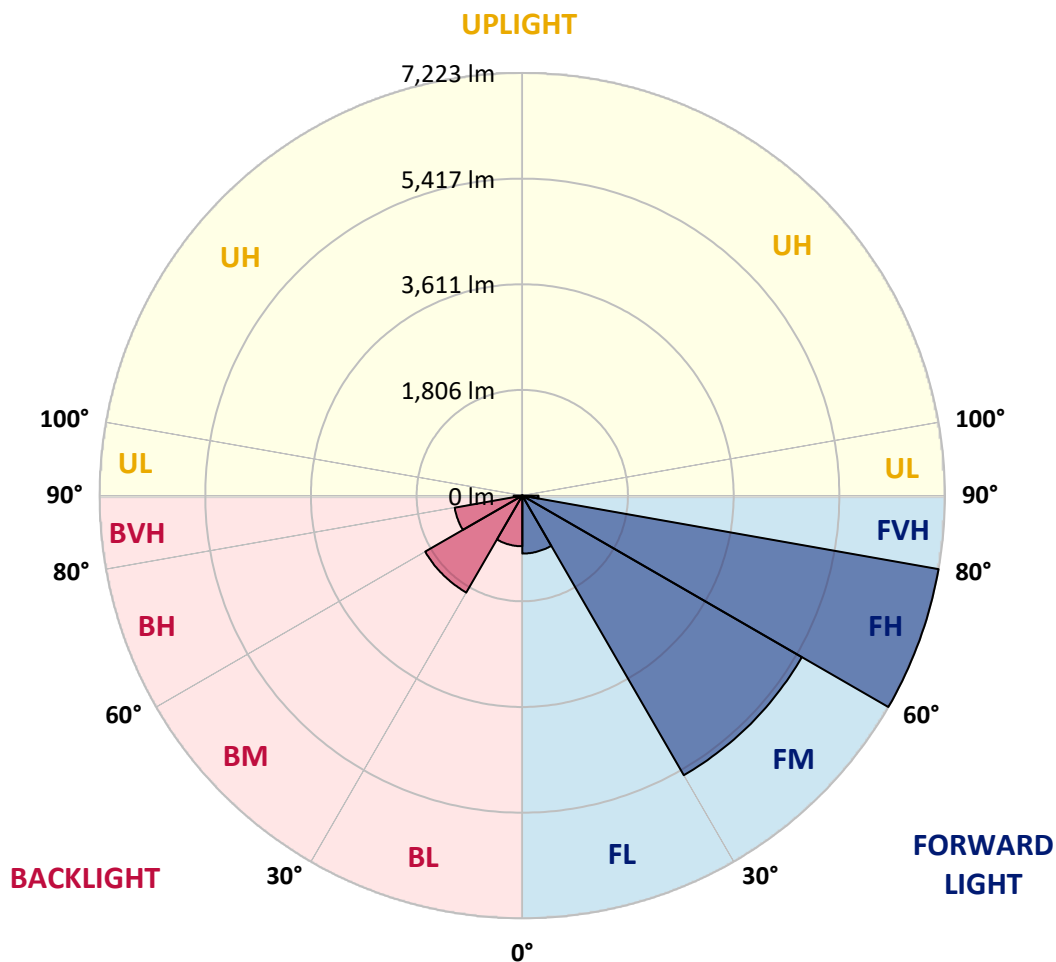
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.0	5.5			
FM	(30°-60°)	5515.9	30.5			
FH	(60°-80°)	7222.7	39.9			G3/7500
FVH	(80°-90°)	276.2	1.5			G3/500
BL	(0°-30°)	865.1	4.8	B2/1000		
BM	(30°-60°)	1913.8	10.6	B2/2500		
BH	(60°-80°)	1173.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	146.6	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°	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4
2.5°	1934.6	1927.9	1926.9	1912.4	1904.6	1890.1	1884.3	1870.7	1854.2	1837.8	1822.3
5°	2086.7	2086.7	2080.0	2059.6	2027.6	1994.7	1980.2	1954.0	1907.5	1869.7	1837.8
7.5°	2242.7	2244.7	2231.1	2201.1	2155.5	2102.2	2088.7	2049.9	1984.1	1928.8	1881.4
10°	2377.4	2377.4	2359.0	2318.3	2261.1	2203.0	2189.4	2145.8	2072.2	2003.4	1941.4
12.5°	2480.1	2480.1	2455.8	2402.6	2340.6	2288.2	2272.7	2231.1	2162.3	2085.8	2007.3
15°	2546.9	2542.1	2514.9	2454.9	2394.8	2349.3	2338.6	2303.7	2240.8	2163.3	2075.1
17.5°	2549.8	2547.9	2521.7	2471.3	2419.0	2388.0	2381.3	2358.0	2308.6	2235.0	2142.0
20°	2493.6	2497.5	2480.1	2444.2	2419.0	2405.5	2402.6	2394.8	2359.9	2291.2	2198.2
22.5°	2433.6	2440.3	2423.9	2404.5	2402.6	2416.1	2418.1	2420.0	2397.7	2330.9	2245.6
25°	2419.0	2423.9	2407.4	2390.0	2400.6	2436.5	2444.2	2452.0	2434.5	2378.3	2301.8
27.5°	2492.7	2488.8	2456.8	2419.0	2425.8	2474.3	2484.9	2493.6	2484.9	2436.5	2371.6
30°	2700.9	2688.4	2624.4	2514.0	2479.1	2513.0	2523.7	2547.9	2547.9	2512.0	2447.1
32.5°	3049.7	3025.5	2908.3	2691.3	2570.2	2549.8	2560.5	2600.2	2620.5	2592.4	2521.7
35°	3473.1	3447.9	3280.3	2988.7	2736.8	2623.4	2620.5	2665.1	2719.4	2656.4	2564.4
37.5°	3898.4	3872.2	3670.7	3343.2	2980.0	2778.4	2761.0	2776.5	2799.8	2684.5	2623.4
40°	4323.6	4292.6	4116.3	3739.5	3277.4	2983.8	2938.3	2868.5	2858.9	2776.5	2737.8
42.5°	4745.1	4717.0	4627.8	4184.1	3633.9	3184.4	3114.6	2994.5	3031.3	2981.9	2948.0
45°	5170.4	5172.3	5077.4	4683.1	4064.0	3554.4	3460.5	3272.5	3359.7	3341.3	3360.7
47.5°	5547.2	5542.4	5508.5	5167.5	4597.8	4031.1	3910.0	3692.0	3841.2	3909.0	4057.2
50°	5912.4	5909.5	5911.5	5716.7	5217.8	4597.8	4464.1	4235.5	4571.7	4807.1	5072.5
52.5°	6435.6	6452.0	6334.8	6283.5	5971.5	5267.2	5120.0	4883.6	5434.8	5805.9	6324.2
55°	6960.7	6947.1	6855.1	6908.3	6760.1	6059.7	5905.7	5717.7	6395.9	6801.8	7580.7
57.5°	7269.7	7274.5	7368.5	7629.1	7733.7	7047.8	6908.3	6763.0	7476.0	7763.8	8698.6
60°	7547.7	7570.0	7840.3	8332.4	8616.3	8261.7	8137.7	7996.3	8467.1	8581.4	9669.4
62.5°	7634.9	7703.7	8175.5	8911.8	9476.6	9631.6	9477.5	9165.6	9410.7	9366.1	10327.2
65°	7199.9	7293.9	8139.7	9128.8	10244.8	10931.7	10833.8	10254.5	10214.8	9946.4	10434.7
67.5°	6054.8	6148.8	7234.8	8673.5	10562.6	12057.4	11959.5	11048.9	10703.0	10000.7	9620.9
70°	4430.2	4489.3	5527.8	7302.6	9924.1	12435.2	12469.1	11436.4	10528.7	9263.4	7899.4
72.5°	2552.7	2683.5	3411.1	5137.4	8107.7	11480.0	11715.4	10630.4	9426.2	7727.9	5523.0
75°	1097.6	1100.5	1577.2	2833.7	5491.0	9227.6	9455.3	8812.0	7402.4	5343.8	2949.0
77.5°	522.2	531.9	693.6	1265.2	3022.6	6375.5	6989.7	6225.4	4734.4	2567.3	1114.1
80°	339.1	345.9	424.3	627.8	1482.2	3696.8	4125.0	3591.3	2088.7	917.4	480.5
82.5°	205.4	207.3	283.9	383.6	815.7	1674.0	1973.4	1558.8	891.3	549.3	282.9
85°	125.0	125.9	172.4	237.4	495.0	578.4	593.9	589.0	523.1	359.4	151.1
87.5°	60.1	62.0	89.1	112.4	194.7	179.2	169.5	196.7	247.0	193.8	64.9
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°	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4
2.5°	1815.5	1812.6	1805.8	1802.9	1801.0	1801.9	1801.0	1801.0	1801.9	1801.9	1801.9
5°	1824.2	1819.4	1808.7	1808.7	1814.5	1828.1	1840.7	1850.4	1861.0	1860.0	1860.0
7.5°	1862.0	1853.3	1840.7	1844.5	1859.1	1880.4	1902.7	1924.0	1945.3	1947.2	1946.3
10°	1917.2	1908.5	1894.9	1899.8	1923.0	1955.0	1983.1	2014.1	2037.3	2044.1	2042.2
12.5°	1980.2	1962.7	1951.1	1964.7	2001.5	2044.1	2071.2	2094.5	2111.0	2120.7	2116.8
15°	2044.1	2027.6	2014.1	2042.2	2086.7	2126.5	2140.0	2143.9	2146.8	2156.5	2154.6
17.5°	2106.1	2083.8	2079.0	2115.8	2158.4	2175.9	2168.1	2151.7	2139.1	2146.8	2145.8
20°	2161.3	2143.9	2142.0	2178.8	2195.2	2178.8	2145.8	2116.8	2094.5	2096.4	2095.5
22.5°	2213.7	2200.1	2202.0	2217.5	2191.4	2135.2	2080.9	2041.2	2017.0	2021.8	2024.7
25°	2271.8	2258.2	2263.1	2237.9	2151.7	2053.8	1975.3	1941.4	1931.7	1941.4	1948.2
27.5°	2347.3	2338.6	2335.7	2238.8	2080.9	1933.7	1844.5	1832.0	1840.7	1862.0	1872.6
30°	2428.7	2428.7	2413.2	2222.4	1984.1	1789.3	1711.8	1713.8	1743.8	1773.8	1784.5
32.5°	2507.2	2523.7	2475.2	2177.8	1859.1	1648.9	1589.8	1591.7	1617.9	1654.7	1664.4
35°	2572.1	2619.6	2528.5	2096.4	1711.8	1530.7	1486.1	1459.9	1460.9	1489.0	1496.8
37.5°	2661.2	2749.4	2559.5	1975.3	1554.9	1429.9	1379.5	1334.0	1304.0	1292.3	1292.3
40°	2816.2	2946.0	2567.3	1796.1	1406.7	1334.0	1262.3	1208.1	1149.9	1097.6	1087.9
42.5°	3078.8	3242.5	2551.8	1589.8	1273.0	1228.4	1158.7	1091.8	1011.4	937.8	932.0
45°	3543.8	3628.1	2510.1	1375.7	1153.8	1126.7	1058.9	986.2	901.0	835.1	830.2
47.5°	4288.8	4169.6	2454.9	1185.8	1045.3	1037.6	985.2	901.0	815.7	770.2	765.3
50°	5376.7	5022.1	2447.1	1048.2	958.1	962.0	919.4	841.9	767.3	729.5	723.7
52.5°	6686.5	6051.9	2498.5	951.3	881.6	896.1	874.8	803.1	737.2	705.3	699.5
55°	7957.5	6978.1	2529.5	875.8	809.9	837.0	839.9	779.9	719.8	687.8	684.0
57.5°	8989.3	7675.6	2391.9	807.0	747.9	789.6	810.9	766.3	711.1	686.9	683.0
60°	9707.1	8005.0	2000.5	746.0	702.4	751.8	800.2	767.3	732.4	735.3	737.2
62.5°	9935.8	7858.7	1500.6	700.4	671.4	739.2	817.6	807.0	771.1	793.4	797.3
65°	9557.0	7254.2	1087.9	664.6	644.2	747.9	870.0	836.1	757.6	774.1	774.1
67.5°	8288.8	6249.6	846.7	631.6	613.2	764.4	922.3	833.1	725.6	745.0	727.6
70°	6575.1	4834.2	705.3	594.8	580.3	740.1	927.1	803.1	687.8	691.7	658.8
72.5°	4363.4	3178.6	606.5	560.0	529.9	665.5	887.4	764.4	651.0	628.7	595.8
75°	2138.1	1584.9	529.0	516.4	464.0	579.3	833.1	727.6	611.3	576.4	558.0
77.5°	828.3	674.3	451.4	461.1	404.0	510.5	761.5	675.2	559.0	511.5	497.0
80°	402.0	382.7	370.1	384.6	332.3	435.0	695.6	629.7	510.5	458.2	436.9
82.5°	249.9	236.4	283.9	299.4	255.8	397.2	659.7	591.0	449.5	379.8	362.3
85°	126.9	135.6	189.9	204.4	183.1	315.8	543.5	443.7	324.5	269.3	271.3
87.5°	48.4	64.9	99.8	107.5	97.8	166.6	299.4	258.7	208.3	141.4	130.8
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)