

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: P522731

Luminaire Tested: **GALN-SA4B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522731
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 18839 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

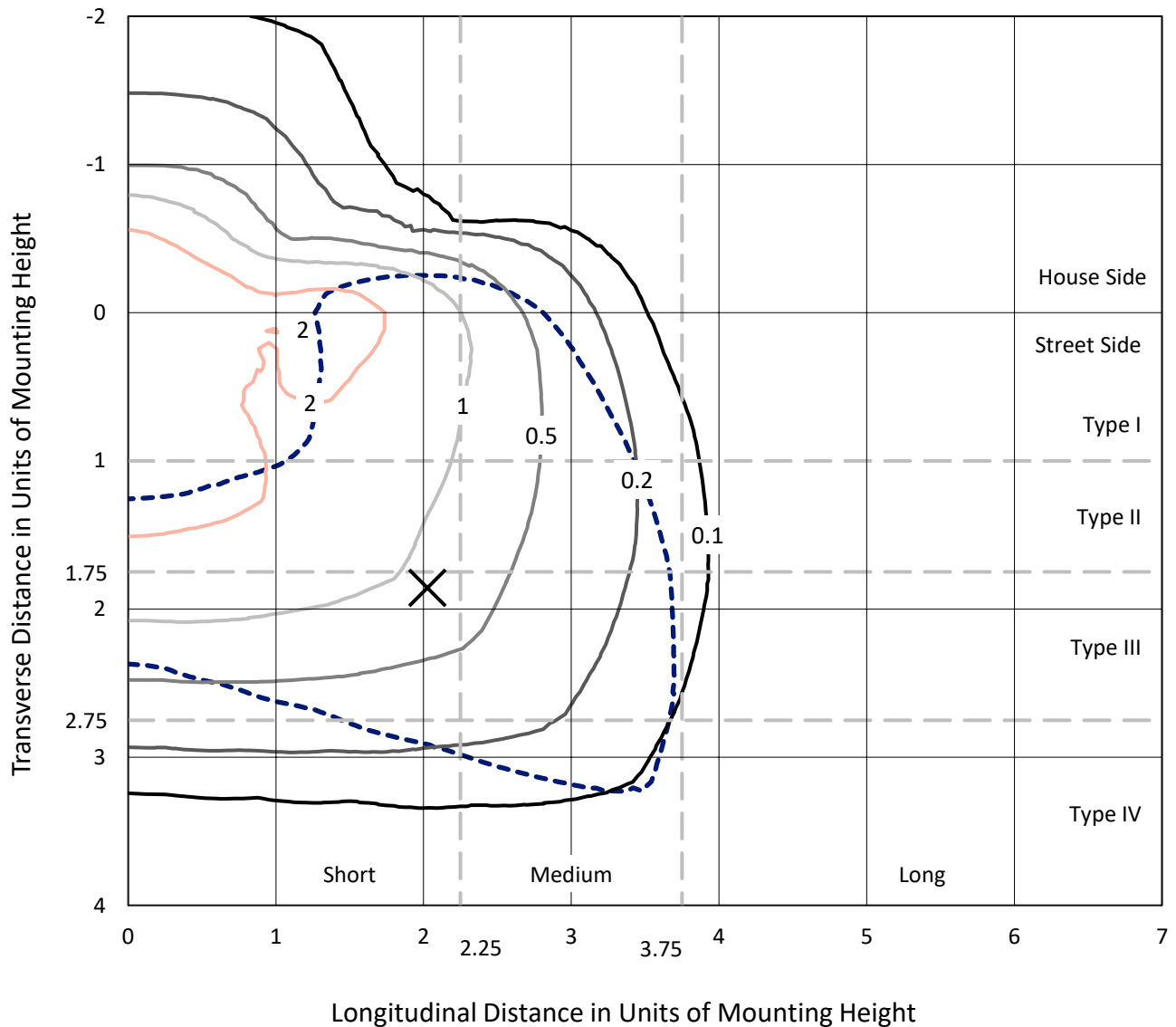
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

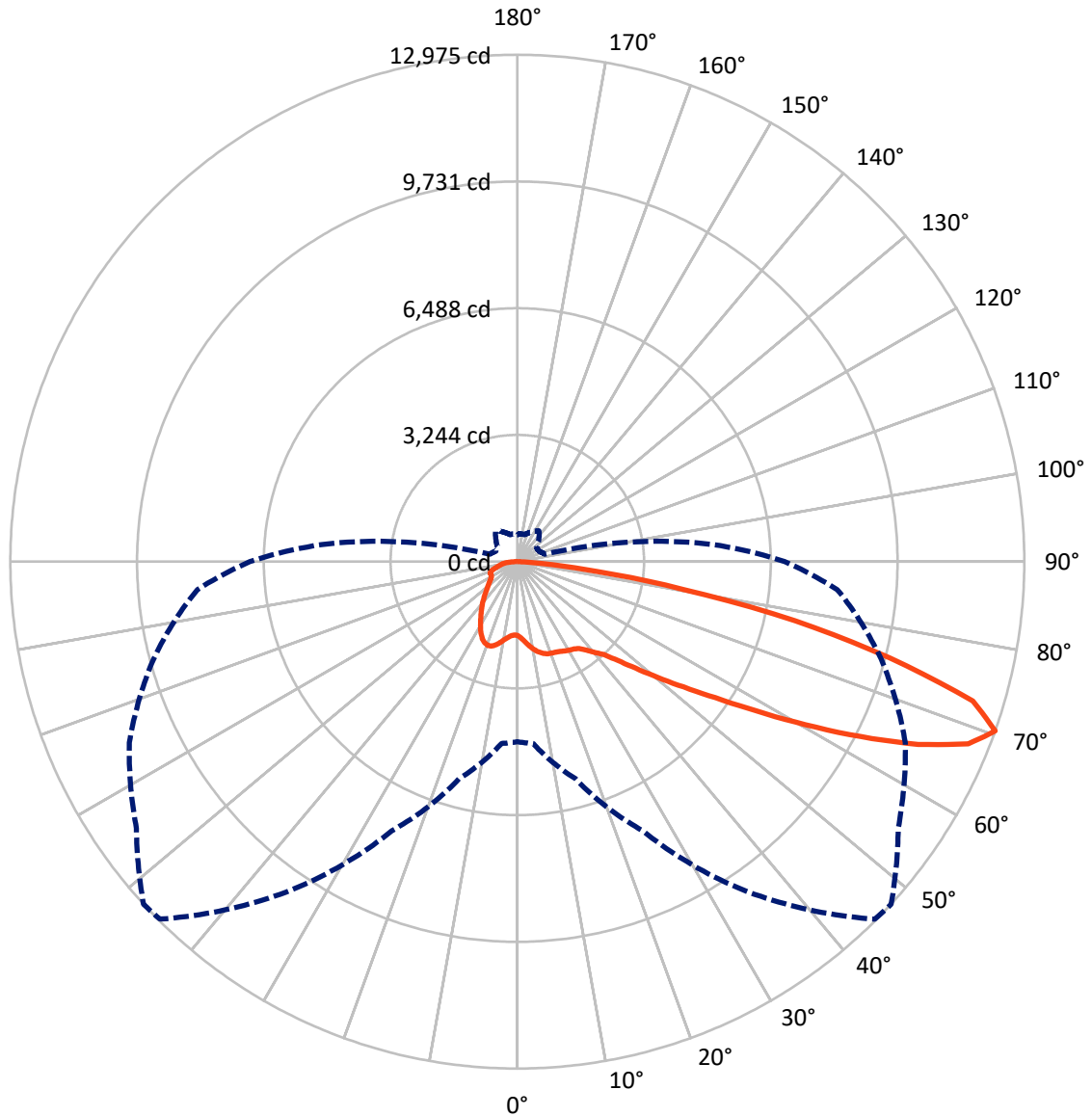
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	4265.5	0.0	4265.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14573.5	0.0	14573.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	18839.0	0.0	18839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.0
10°-20°	651.7	3.5
20°-30°	1083.8	5.8
30°-40°	1536.1	8.2
40°-50°	2267.6	12.0
50°-60°	3927.6	20.8
60°-70°	5547.9	29.4
70°-80°	3189.2	16.9
80°-90°	440.0	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°	18839.0	100.0
0°-180°	18839.0	100.0

Coefficient of Utilization



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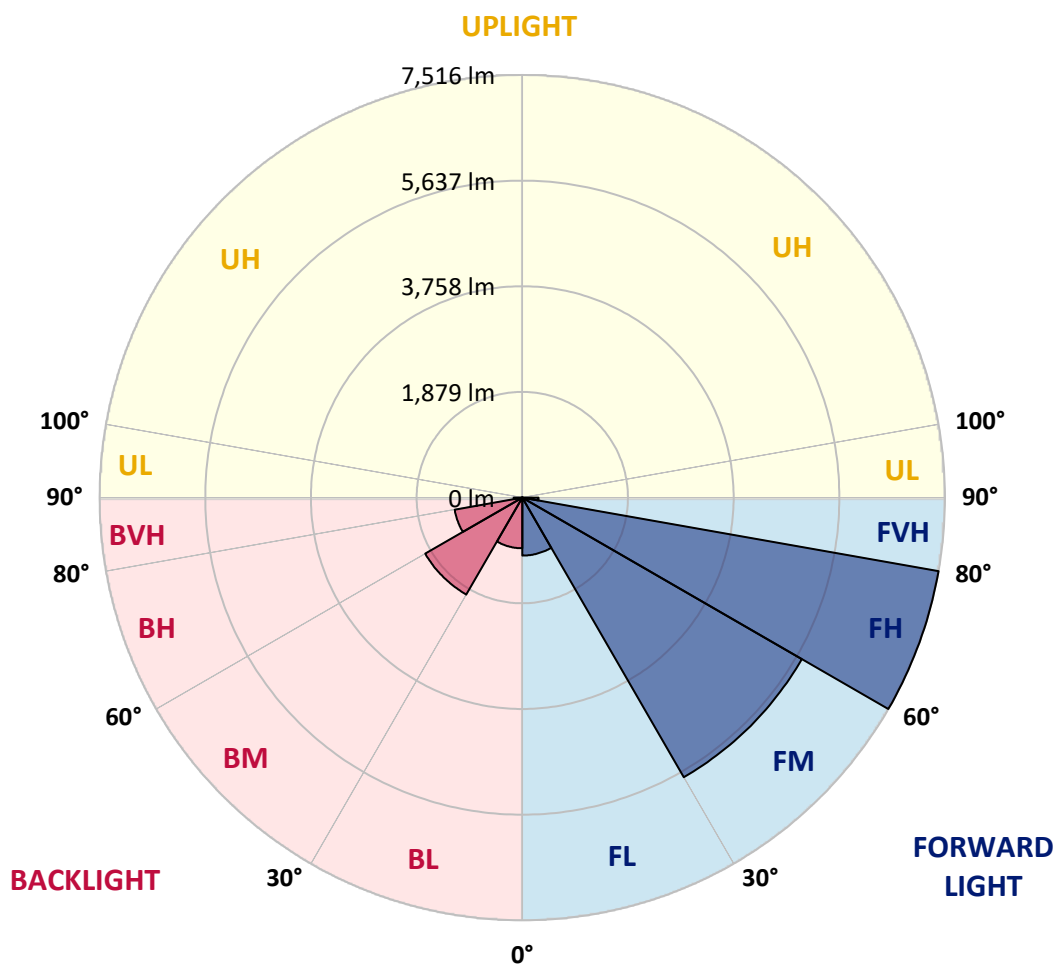
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.2	5.5			
FM (30°-60°)	5739.9	30.5			
FH (60°-80°)	7516.0	39.9			G4/12000
FVH (80°-90°)	287.4	1.5			G3/500
BL (0°-30°)	900.3	4.8	B2/1000		
BM (30°-60°)	1991.5	10.6	B2/2500		
BH (60°-80°)	1221.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	152.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2
2.5°	2013.2	2006.1	2005.1	1990.0	1981.9	1966.8	1960.8	1946.7	1929.5	1912.4	1896.2
5°	2171.5	2171.5	2164.4	2143.2	2110.0	2075.7	2060.6	2033.4	1985.0	1945.6	1912.4
7.5°	2333.8	2335.8	2321.7	2290.4	2243.0	2187.6	2173.5	2133.2	2064.6	2007.1	1957.7
10°	2473.9	2473.9	2454.7	2412.4	2352.9	2292.4	2278.3	2233.0	2156.3	2084.8	2020.2
12.5°	2580.8	2580.8	2555.6	2500.1	2435.6	2381.1	2365.0	2321.7	2250.1	2170.5	2088.8
15°	2650.3	2645.3	2617.0	2554.5	2492.0	2444.7	2433.6	2397.3	2331.8	2251.1	2159.4
17.5°	2653.3	2651.3	2624.1	2571.7	2517.2	2485.0	2477.9	2453.7	2402.3	2325.7	2228.9
20°	2594.9	2598.9	2580.8	2543.5	2517.2	2503.1	2500.1	2492.0	2455.7	2384.2	2287.4
22.5°	2532.4	2539.4	2522.3	2502.1	2500.1	2514.2	2516.2	2518.3	2495.1	2425.5	2336.8
25°	2517.2	2522.3	2505.1	2487.0	2498.1	2535.4	2543.5	2551.5	2533.4	2474.9	2395.3
27.5°	2593.9	2589.8	2556.6	2517.2	2524.3	2574.7	2585.8	2594.9	2585.8	2535.4	2467.8
30°	2810.6	2797.5	2731.0	2616.0	2579.7	2615.0	2626.1	2651.3	2651.3	2614.0	2546.5
32.5°	3173.5	3148.3	3026.3	2800.5	2674.5	2653.3	2664.4	2705.8	2726.9	2697.7	2624.1
35°	3614.1	3587.9	3413.5	3110.0	2847.9	2730.0	2726.9	2773.3	2829.8	2764.2	2668.5
37.5°	4056.6	4029.4	3819.7	3479.0	3100.9	2891.3	2873.1	2889.2	2913.4	2793.5	2730.0
40°	4499.2	4466.9	4283.4	3891.3	3410.4	3105.0	3057.6	2985.0	2974.9	2889.2	2848.9
42.5°	4937.7	4908.5	4815.7	4354.0	3781.4	3313.6	3241.1	3116.1	3154.4	3103.0	3067.7
45°	5380.3	5382.3	5283.5	4873.2	4229.0	3698.7	3601.0	3405.4	3496.1	3477.0	3497.1
47.5°	5772.4	5767.4	5732.1	5377.2	4784.5	4194.7	4068.7	3841.9	3997.1	4067.7	4222.0
50°	6152.5	6149.5	6151.5	5948.8	5429.7	4784.5	4645.4	4407.4	4757.3	5002.2	5278.4
52.5°	6696.9	6714.0	6592.0	6538.6	6214.0	5481.1	5327.8	5081.9	5655.5	6041.6	6580.9
55°	7243.2	7229.1	7133.4	7188.8	7034.6	6305.7	6145.4	5949.8	6655.5	7077.9	7888.4
57.5°	7564.8	7569.9	7667.7	7938.8	8047.7	7334.0	7188.8	7037.6	7779.6	8079.0	9051.8
60°	7854.2	7877.3	8158.6	8670.7	8966.1	8597.1	8468.1	8320.9	8810.9	8929.8	10061.9
62.5°	7944.9	8016.5	8507.4	9273.6	9861.3	10022.6	9862.3	9537.7	9792.8	9746.4	10746.4
65°	7492.3	7590.0	8470.1	9499.4	10660.7	11375.5	11273.7	10670.8	10629.5	10350.2	10858.3
67.5°	6300.7	6398.5	7528.5	9025.6	10991.4	12546.9	12445.1	11497.5	11137.6	10406.7	10011.5
70°	4610.1	4671.6	5752.3	7599.1	10327.0	12940.1	12975.3	11900.7	10956.1	9639.5	8220.1
72.5°	2656.4	2792.5	3549.5	5346.0	8436.8	11946.1	12191.0	11062.0	9808.9	8041.7	5747.2
75°	1142.2	1145.2	1641.2	2948.7	5714.0	9602.2	9839.1	9169.7	7702.9	5560.7	3068.7
77.5°	543.4	553.5	721.8	1316.6	3145.3	6634.4	7273.5	6478.1	4926.6	2671.5	1159.3
80°	352.8	359.9	441.6	653.3	1542.4	3846.9	4292.5	3737.1	2173.5	954.7	500.0
82.5°	213.7	215.7	295.4	399.2	848.8	1742.0	2053.5	1622.0	927.5	571.6	294.4
85°	130.0	131.1	179.4	247.0	515.1	601.8	618.0	612.9	544.4	374.0	157.3
87.5°	62.5	64.5	92.7	116.9	202.6	186.5	176.4	204.6	257.1	201.6	67.5
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°	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2
2.5°	1889.2	1886.2	1879.1	1876.1	1874.1	1875.1	1874.1	1874.1	1875.1	1875.1	1875.1
5°	1898.3	1893.2	1882.1	1882.1	1888.2	1902.3	1915.4	1925.5	1936.6	1935.6	1935.6
7.5°	1937.6	1928.5	1915.4	1919.4	1934.6	1956.7	1979.9	2002.1	2024.3	2026.3	2025.3
10°	1995.0	1986.0	1971.9	1976.9	2001.1	2034.4	2063.6	2095.9	2120.0	2127.1	2125.1
12.5°	2060.6	2042.4	2030.3	2044.4	2082.7	2127.1	2155.3	2179.5	2196.7	2206.7	2202.7
15°	2127.1	2110.0	2095.9	2125.1	2171.5	2212.8	2226.9	2230.9	2234.0	2244.0	2242.0
17.5°	2191.6	2168.4	2163.4	2201.7	2246.1	2264.2	2256.1	2239.0	2225.9	2234.0	2233.0
20°	2249.1	2230.9	2228.9	2267.2	2284.4	2267.2	2233.0	2202.7	2179.5	2181.5	2180.5
22.5°	2303.5	2289.4	2291.4	2307.6	2280.3	2221.9	2165.4	2124.1	2098.9	2103.9	2106.9
25°	2364.0	2349.9	2354.9	2328.7	2239.0	2137.2	2055.5	2020.2	2010.2	2020.2	2027.3
27.5°	2442.6	2433.6	2430.5	2329.7	2165.4	2012.2	1919.4	1906.3	1915.4	1937.6	1948.7
30°	2527.3	2527.3	2511.2	2312.6	2064.6	1862.0	1781.3	1783.3	1814.6	1845.8	1856.9
32.5°	2609.0	2626.1	2575.7	2266.2	1934.6	1715.8	1654.3	1656.3	1683.5	1721.8	1731.9
35°	2676.5	2725.9	2631.2	2181.5	1781.3	1592.8	1546.4	1519.2	1520.2	1549.5	1557.5
37.5°	2769.3	2861.0	2663.4	2055.5	1618.0	1488.0	1435.5	1388.2	1356.9	1344.8	1344.8
40°	2930.6	3065.7	2671.5	1869.0	1463.8	1388.2	1313.6	1257.1	1196.6	1142.2	1132.1
42.5°	3203.8	3374.1	2655.4	1654.3	1324.7	1278.3	1205.7	1136.1	1052.5	975.8	969.8
45°	3687.7	3775.4	2612.0	1431.5	1200.7	1172.4	1101.9	1026.3	937.5	869.0	863.9
47.5°	4462.9	4338.9	2554.5	1233.9	1087.7	1079.7	1025.2	937.5	848.8	801.4	796.4
50°	5595.0	5226.0	2546.5	1090.8	997.0	1001.1	956.7	876.0	798.4	759.1	753.1
52.5°	6958.0	6297.6	2599.9	990.0	917.4	932.5	910.3	835.7	767.2	733.9	727.9
55°	8280.6	7261.4	2632.2	911.3	842.8	871.0	874.0	811.5	749.0	715.8	711.7
57.5°	9354.2	7987.2	2489.0	839.8	778.3	821.6	843.8	797.4	740.0	714.7	710.7
60°	10101.2	8330.0	2081.7	776.2	730.9	782.3	832.7	798.4	762.1	765.2	767.2
62.5°	10339.1	8177.8	1561.6	728.9	698.6	769.2	850.8	839.8	802.5	825.6	829.7
65°	9945.0	7548.7	1132.1	691.6	670.4	778.3	905.3	870.0	788.3	805.5	805.5
67.5°	8625.4	6503.3	881.1	657.3	638.1	795.4	959.7	867.0	755.1	775.2	757.1
70°	6842.0	5030.5	733.9	619.0	603.9	770.2	964.8	835.7	715.8	719.8	685.5
72.5°	4540.5	3307.6	631.1	582.7	551.4	692.6	923.4	795.4	677.4	654.3	620.0
75°	2224.9	1649.3	550.4	537.3	482.9	602.8	867.0	757.1	636.1	599.8	580.7
77.5°	861.9	701.6	469.8	479.9	420.4	531.3	792.4	702.7	581.7	532.3	517.2
80°	418.4	398.2	385.1	400.2	345.8	452.6	723.8	655.3	531.3	476.8	454.7
82.5°	260.1	246.0	295.4	311.5	266.1	413.3	686.5	614.9	467.8	395.2	377.0
85°	132.1	141.1	197.6	212.7	190.5	328.6	565.5	461.7	337.7	280.3	282.3
87.5°	50.4	67.5	103.8	111.9	101.8	173.4	311.5	269.2	216.7	147.2	136.1
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)