

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: P451606

Luminaire Tested: **GALN-SA2C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451606
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-SA2C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100 lumens
Efficiency: N/A
Efficacy: 112.0 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): 108
Input Voltage (V): NR
Input Current (Ain): 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

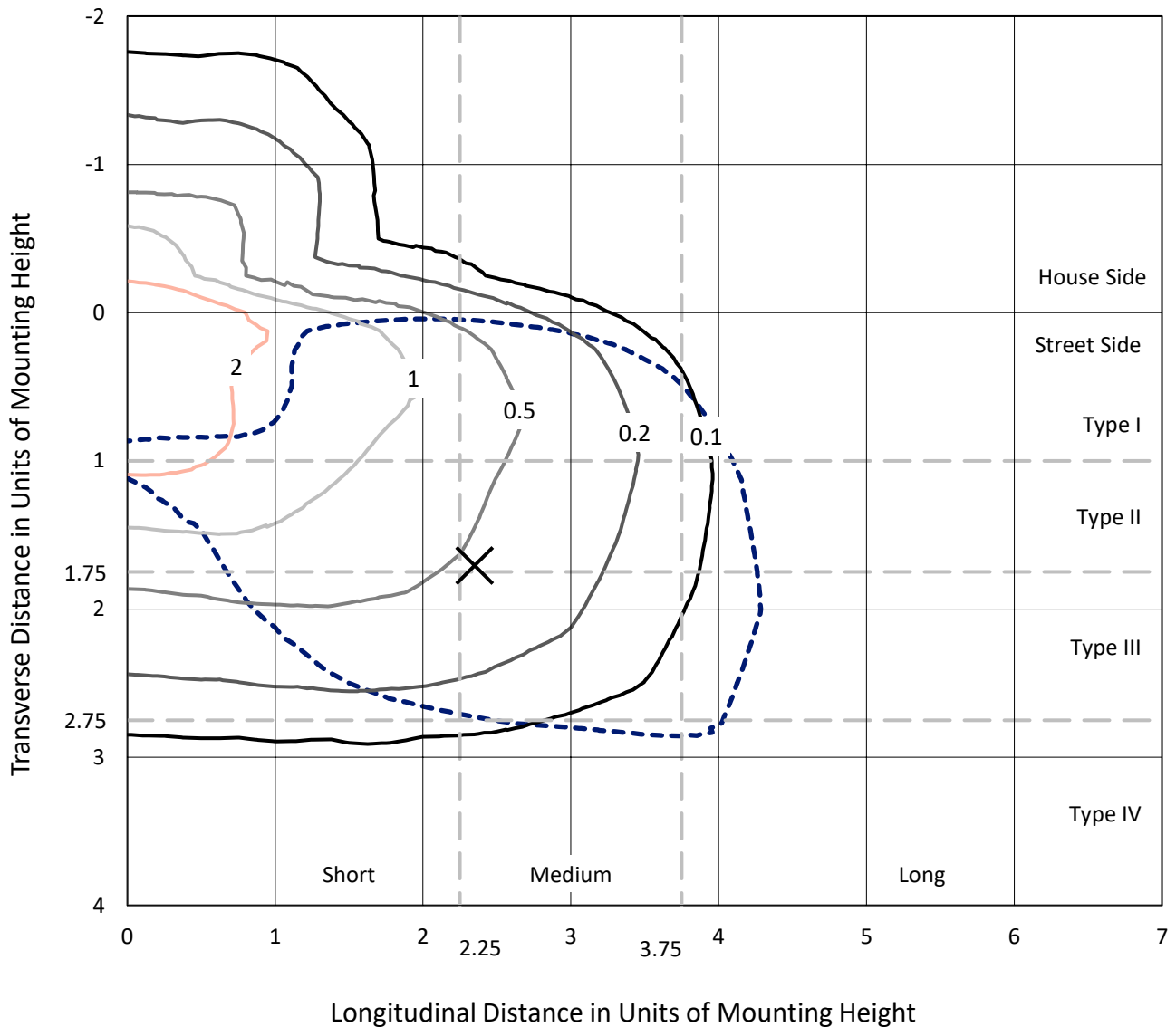




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Iso-Footcandle Lines of Horizontal Illumination

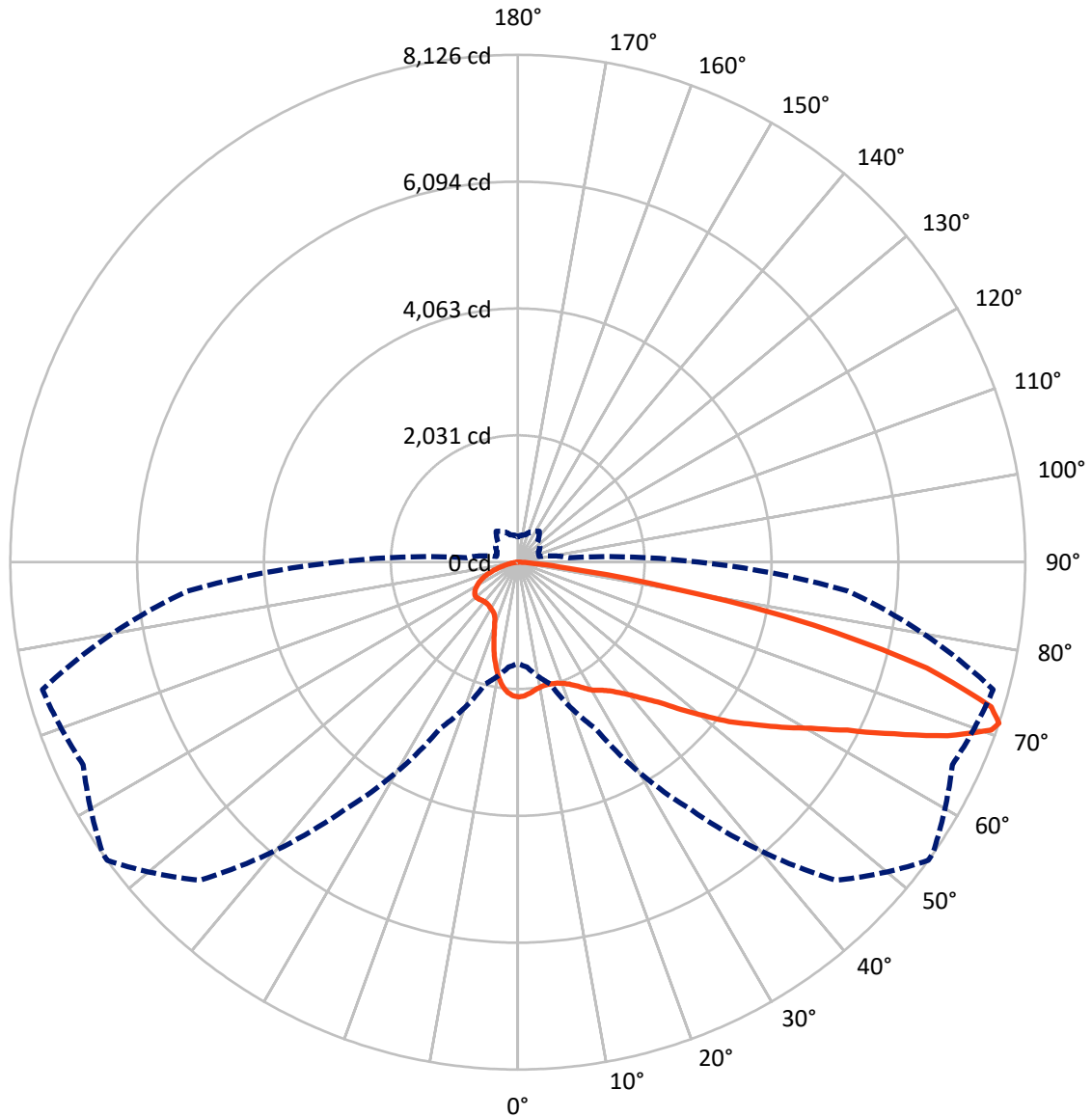
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - 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	2184.6	0.0	2184.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9915.4	0.0	9915.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	12100.0	0.0	12100.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	1.6
10°-20°	508.0	4.2
20°-30°	845.8	7.0
30°-40°	1250.7	10.3
40°-50°	1761.6	14.6
50°-60°	2358.9	19.5
60°-70°	2973.2	24.6
70°-80°	2030.7	16.8
80°-90°	178.6	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°	12100.0	100.0
0°-180°	12100.0	100.0



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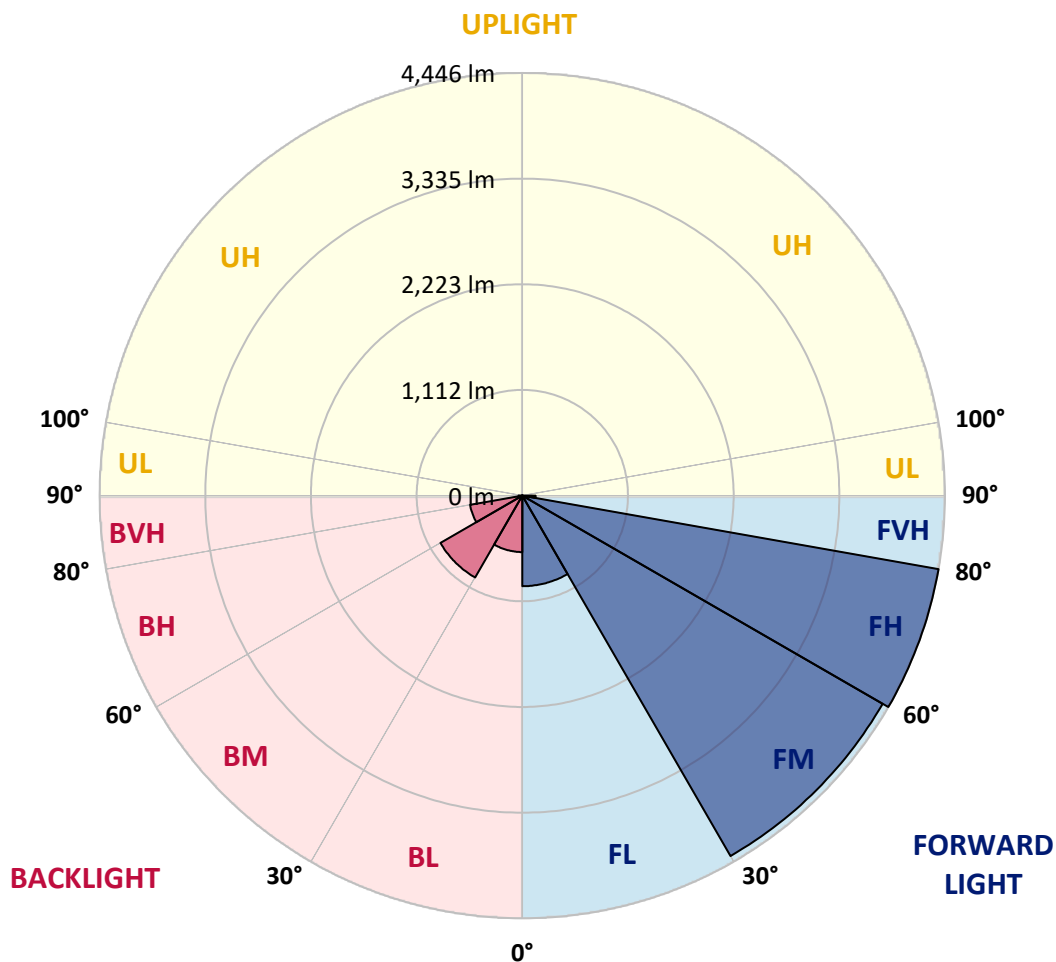
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	952.5	7.9			
FM	(30°-60°)	4377.3	36.2			
FH	(60°-80°)	4446.0	36.7			G2/5000
FVH	(80°-90°)	139.6	1.2			G2/225
BL	(0°-30°)	593.7	4.9	B2/1000		
BM	(30°-60°)	993.9	8.2	B1/1000		
BH	(60°-80°)	557.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	39.0	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°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2085.6	2095.4	2098.0	2104.6	2118.3	2129.4	2140.5	2139.2	2154.9	2161.4	2167.3
5°	1992.8	1995.4	2005.2	2018.3	2042.5	2073.2	2103.3	2103.9	2142.5	2173.2	2188.2
7.5°	1924.8	1933.3	1939.9	1953.6	1979.1	2012.4	2060.1	2064.0	2132.7	2193.5	2225.5
10°	1880.4	1890.2	1897.4	1914.4	1939.9	1977.1	2028.8	2035.9	2125.5	2225.5	2281.7
12.5°	1839.9	1849.7	1856.2	1878.4	1911.8	1957.5	2015.7	2024.2	2128.1	2262.7	2343.1
15°	1864.7	1872.5	1869.9	1876.5	1898.7	1951.0	2020.9	2029.4	2137.9	2298.7	2403.9
17.5°	1975.2	1981.7	1960.1	1935.3	1924.8	1963.4	2037.3	2046.4	2157.5	2335.9	2466.0
20°	2137.9	2155.6	2108.5	2052.9	2002.6	2007.8	2071.2	2081.0	2185.0	2373.2	2529.4
22.5°	2349.7	2362.7	2305.2	2213.7	2120.9	2073.2	2122.2	2128.1	2226.1	2421.6	2598.7
25°	2598.7	2606.5	2526.8	2409.1	2275.2	2185.0	2192.2	2202.6	2294.1	2476.5	2660.1
27.5°	2840.5	2865.4	2773.2	2629.4	2452.9	2302.6	2288.2	2294.8	2368.0	2507.2	2702.6
30°	3127.4	3125.5	3028.1	2861.4	2635.3	2430.7	2379.1	2377.8	2407.8	2522.2	2733.3
32.5°	3356.2	3383.0	3287.6	3105.9	2843.8	2563.4	2441.8	2439.2	2438.6	2548.4	2779.1
35°	3616.3	3620.3	3532.7	3349.7	3069.3	2730.1	2529.4	2516.3	2501.3	2604.6	2841.2
37.5°	3849.0	3867.3	3786.9	3581.7	3290.8	2903.3	2649.7	2641.2	2595.4	2702.0	2940.5
40°	4030.7	4044.4	3996.1	3800.6	3509.1	3090.2	2802.6	2786.9	2731.4	2861.4	3073.2
42.5°	4090.2	4118.3	4137.2	4041.2	3760.1	3311.8	2990.8	2971.2	2928.8	3103.3	3226.1
45°	4094.8	4139.2	4239.2	4243.8	4012.4	3577.1	3210.5	3196.7	3193.5	3413.1	3441.2
47.5°	4060.1	4105.2	4273.2	4364.0	4237.2	3845.1	3527.4	3505.9	3507.8	3796.1	3682.3
50°	3976.5	4030.1	4234.0	4441.2	4413.1	4123.5	3862.1	3854.9	3895.4	4233.3	3932.7
52.5°	3818.9	3883.7	4193.5	4489.5	4543.8	4363.4	4242.5	4222.2	4324.8	4707.8	4206.5
55°	3383.0	3480.4	4045.1	4516.3	4668.0	4592.8	4585.0	4621.6	4757.5	5225.5	4507.8
57.5°	3155.5	3228.8	3722.9	4520.9	4824.8	4859.5	4985.0	4994.1	5232.0	5775.2	4848.4
60°	3031.4	3096.1	3546.4	4490.8	5043.8	5189.5	5394.1	5426.8	5695.4	6370.6	5201.3
62.5°	2922.9	2978.4	3440.5	4386.9	5290.8	5679.1	5924.2	5939.9	6221.6	7028.1	5549.7
65°	2667.3	2730.7	3227.4	4283.0	5503.9	6290.8	6627.4	6609.1	6781.7	7595.4	5768.0
67.5°	2322.9	2403.3	2829.4	3924.2	5609.1	6959.5	7419.6	7396.7	7334.6	7967.3	5830.7
70°	1883.0	1926.1	2320.3	3303.9	5188.9	7310.4	8045.1	8020.9	7677.1	8016.3	5534.0
71°	1620.3	1687.6	2020.3	2934.6	4839.2	7203.3	8125.5	8118.9	7677.8	7881.0	5310.4
72.5°	1264.7	1305.9	1600.0	2273.9	4113.1	6594.1	7926.8	7951.6	7511.1	7505.2	4849.7
75°	800.0	818.3	1003.9	1338.6	2256.9	4669.9	6766.7	6834.0	6669.3	6143.1	3606.5
77.5°	464.7	488.2	601.3	788.9	975.2	2534.6	4841.8	4915.0	4634.0	3382.3	1476.5
80°	270.6	296.7	396.1	458.2	447.7	940.5	2465.4	2590.2	2006.5	854.2	414.4
82.5°	150.3	168.0	278.4	279.1	238.6	307.2	775.8	811.8	572.5	344.4	169.3
85°	109.2	123.5	179.7	162.7	114.4	132.0	269.9	283.0	231.4	145.1	54.9
87.5°	38.6	54.9	98.7	78.4	31.4	27.5	77.8	63.4	58.8	40.5	12.4
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°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2170.6	2171.9	2165.4	2153.6	2141.8	2126.8	2109.8	2096.7	2090.8	2090.2	2089.5
5°	2194.1	2197.4	2172.5	2135.9	2095.4	2045.7	2003.3	1954.9	1942.5	1922.9	1928.8
7.5°	2232.0	2230.1	2181.0	2103.3	2008.5	1903.3	1814.4	1762.7	1709.1	1694.1	1694.8
10°	2286.3	2273.9	2181.0	2036.6	1878.4	1722.2	1598.0	1519.6	1477.1	1441.8	1428.8
12.5°	2343.8	2312.4	2160.1	1943.1	1711.1	1519.6	1386.3	1280.4	1252.9	1224.2	1224.8
15°	2398.7	2346.4	2118.9	1811.8	1530.7	1303.3	1173.9	1110.5	1102.0	1105.2	1104.6
17.5°	2448.4	2370.6	2056.2	1665.4	1320.3	1117.6	1049.0	1053.6	1076.5	1092.8	1094.8
20°	2498.7	2385.0	1962.7	1469.3	1121.6	1005.2	1007.8	1043.8	1078.4	1100.7	1103.9
22.5°	2546.4	2391.5	1852.9	1279.7	977.8	957.5	996.1	1034.6	1068.6	1090.2	1093.5
25°	2577.8	2376.5	1697.4	1081.7	907.2	940.5	981.0	1013.7	1042.5	1064.7	1069.9
27.5°	2586.3	2328.1	1504.6	921.6	874.5	924.2	961.4	985.6	1007.8	1028.8	1032.7
30°	2581.7	2256.9	1292.8	827.4	855.6	905.2	934.0	951.6	978.4	994.8	998.0
32.5°	2574.5	2173.9	1071.9	777.1	839.9	887.6	904.6	920.3	919.6	913.1	917.6
35°	2577.1	2074.5	892.8	747.1	826.1	874.5	888.9	869.3	813.1	810.5	807.8
37.5°	2590.8	1976.5	762.7	726.1	819.0	872.5	880.4	790.2	740.5	717.6	711.8
40°	2626.1	1862.1	677.1	710.5	818.3	887.6	841.8	750.3	654.9	610.5	607.2
42.5°	2673.2	1749.7	624.8	700.7	826.1	910.5	826.1	694.1	590.2	564.1	560.1
45°	2743.1	1620.9	596.1	696.1	837.9	919.0	820.9	652.9	564.1	543.1	543.1
47.5°	2822.2	1498.0	580.4	692.8	852.9	913.1	774.5	639.9	551.6	554.2	566.7
50°	2900.6	1391.5	568.6	685.6	866.0	909.8	755.6	639.2	554.9	588.2	610.5
52.5°	2991.5	1316.3	554.2	673.9	866.0	888.9	749.7	652.3	564.1	573.9	583.7
55°	3101.3	1292.8	535.9	648.4	850.3	836.6	746.4	671.2	570.6	547.7	551.6
57.5°	3246.4	1330.7	518.3	616.3	814.4	782.4	745.1	676.5	555.6	536.6	532.7
60°	3415.0	1405.9	513.1	583.7	765.4	735.9	737.3	661.4	534.6	515.0	518.3
62.5°	3533.3	1451.0	509.8	558.8	711.8	685.0	718.3	643.1	525.5	508.5	511.8
65°	3533.3	1396.1	479.7	520.9	642.5	623.5	695.4	620.3	513.7	494.1	490.8
67.5°	3399.3	1235.9	434.0	464.1	566.0	553.6	663.4	592.8	496.1	481.0	473.2
70°	3050.3	937.3	376.5	397.4	469.3	480.4	622.2	555.6	466.7	448.4	436.6
71°	2896.7	816.3	352.3	363.4	432.0	448.4	602.6	539.9	453.6	427.5	406.5
72.5°	2600.6	687.6	315.7	320.3	369.3	398.7	561.4	509.8	428.8	391.5	368.0
75°	1975.8	502.0	254.2	251.6	273.2	316.3	475.2	454.2	375.8	325.5	311.8
77.5°	853.6	273.2	190.2	192.2	185.6	239.9	373.9	390.2	322.2	264.7	252.3
80°	258.8	157.5	130.1	132.7	124.2	160.8	263.4	305.9	258.8	205.9	188.9
82.5°	132.7	94.1	88.9	87.6	79.1	90.8	159.5	209.1	185.0	128.8	113.7
85°	57.5	50.3	43.8	42.5	37.3	32.7	56.9	104.6	98.0	71.9	68.6
87.5°	14.4	13.1	8.5	7.8	4.6	0.7	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)