

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: P451622

Luminaire Tested: **GALN-SA2C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12603 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

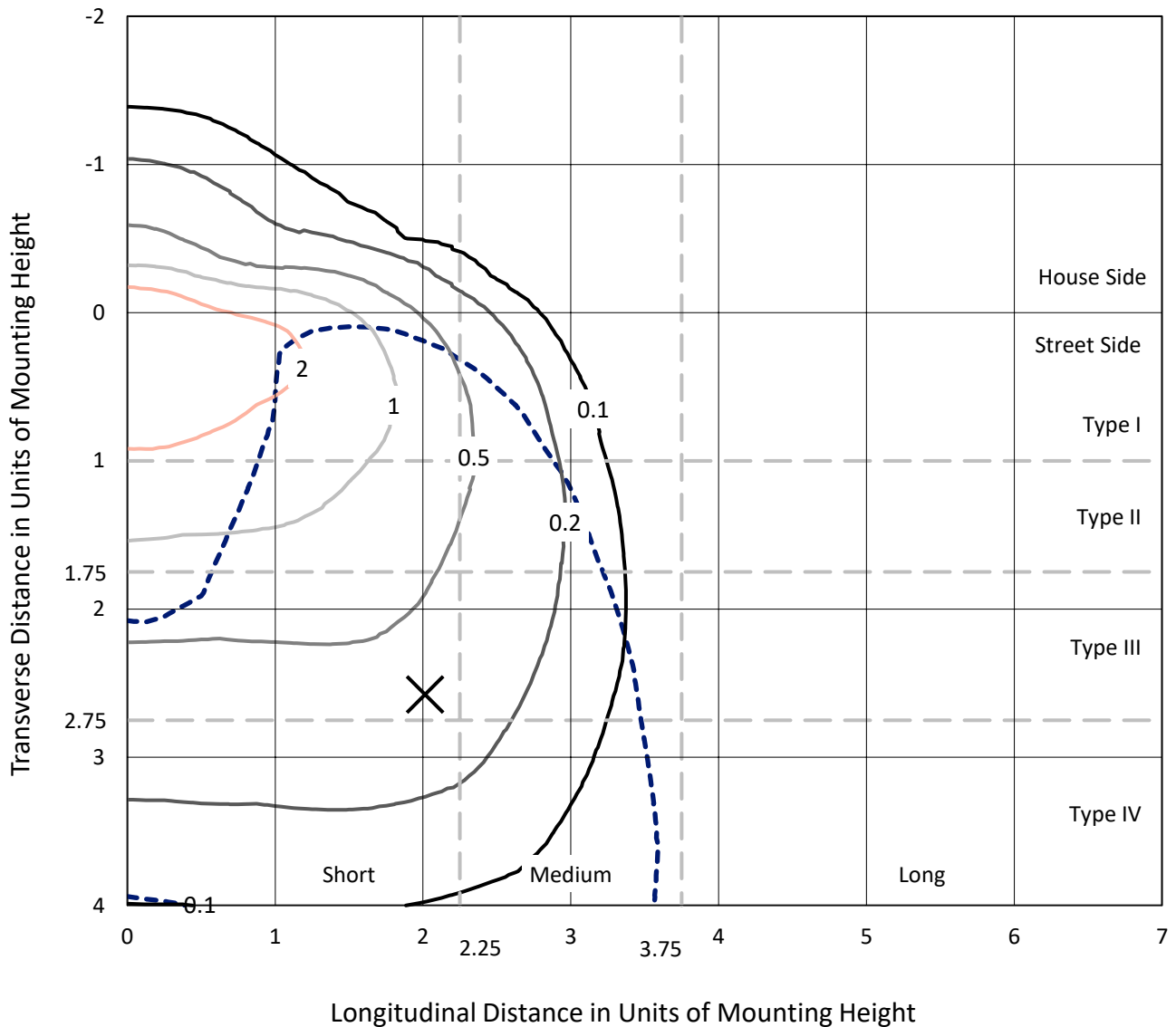
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

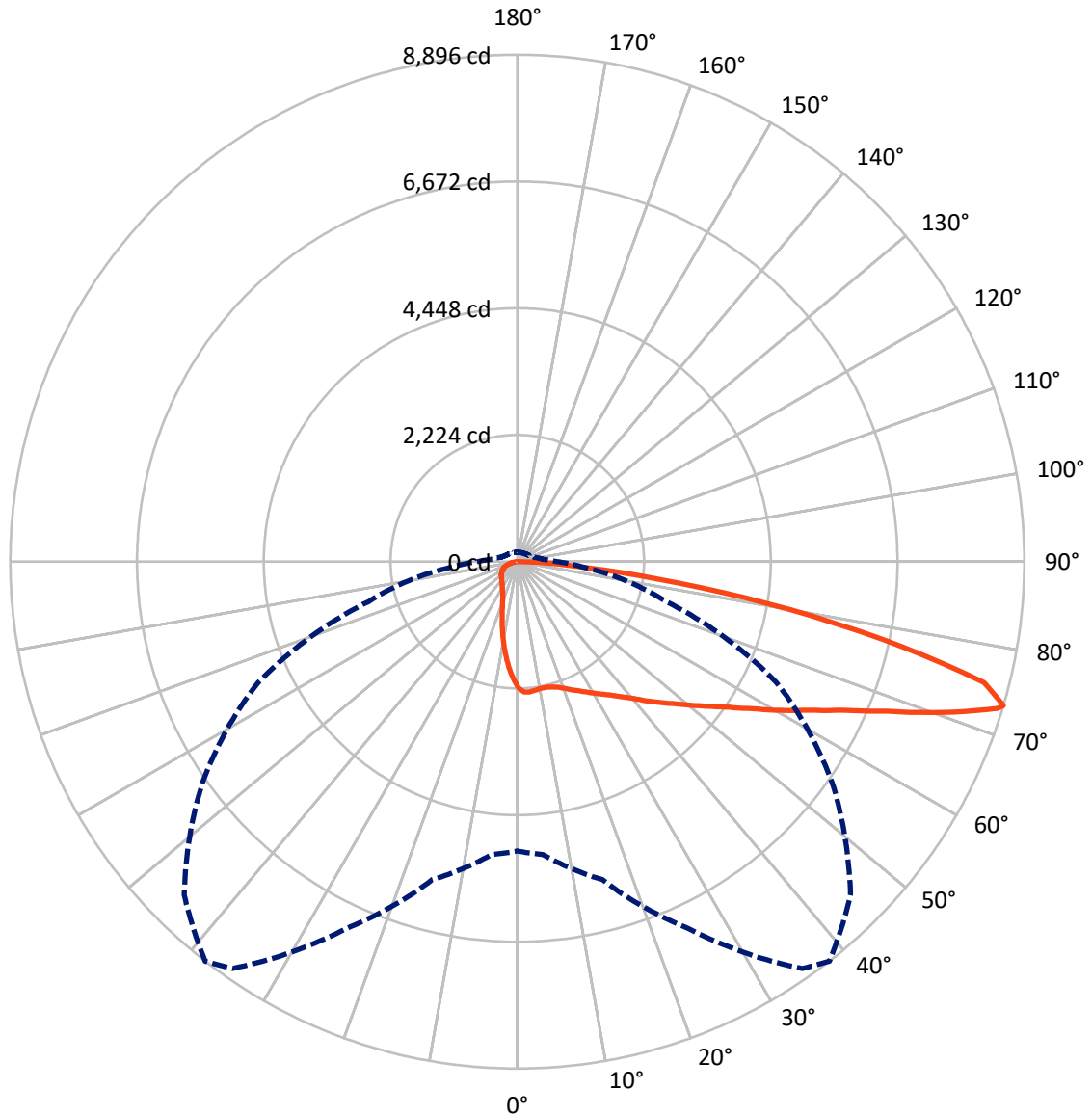
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.2	0.0	1694.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10908.8	0.0	10908.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	12603.0	0.0	12603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	1.5
10°-20°	495.6	3.9
20°-30°	771.8	6.1
30°-40°	1132.0	9.0
40°-50°	1679.2	13.3
50°-60°	2379.1	18.9
60°-70°	3017.9	23.9
70°-80°	2512.2	19.9
80°-90°	422.1	3.3
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°	12603.0	100.0
0°-180°	12603.0	100.0

Coefficient of Utilization



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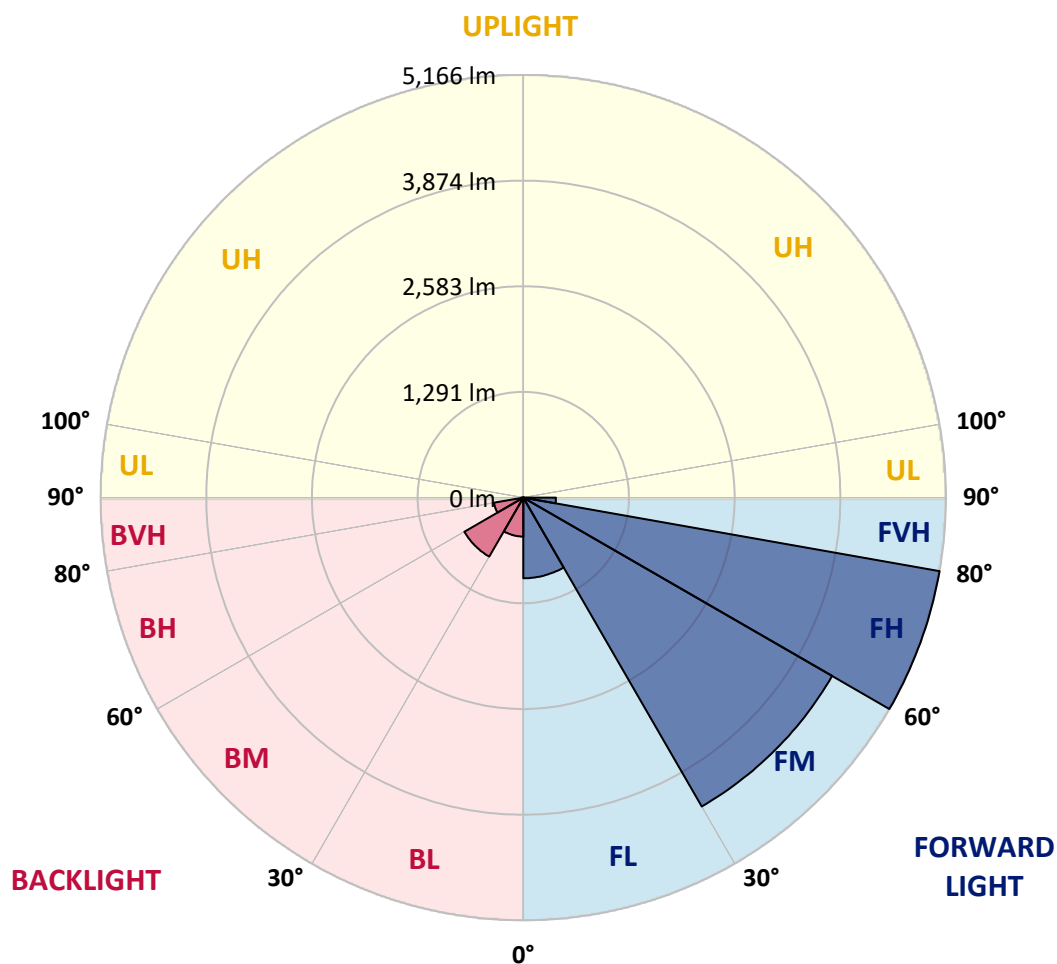
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.2	7.8			
FM	(30°-60°)	4358.5	34.6			
FH	(60°-80°)	5165.9	41.0			G3/7500
FVH	(80°-90°)	399.2	3.2			G3/500
BL	(0°-30°)	475.4	3.8	B1/500		
BM	(30°-60°)	831.8	6.6	B1/1000		
BH	(60°-80°)	364.2	2.9	B1/500		G1/500
BVH	(80°-90°)	22.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1
2.5°	2303.1	2314.5	2308.8	2301.0	2296.0	2291.0	2283.9	2263.2	2246.9	2229.1	2201.3
5°	2320.2	2327.3	2322.3	2312.3	2301.0	2296.0	2282.5	2255.4	2229.1	2199.2	2157.9
7.5°	2310.2	2313.1	2307.4	2295.3	2285.3	2276.1	2260.4	2230.5	2198.5	2162.2	2108.1
10°	2274.6	2285.3	2285.3	2275.3	2265.4	2260.4	2244.7	2216.3	2187.1	2145.8	2081.8
12.5°	2245.4	2256.8	2266.1	2263.2	2262.5	2262.5	2250.4	2229.1	2194.9	2155.8	2079.6
15°	2225.5	2239.0	2259.0	2270.4	2277.5	2279.6	2274.6	2256.1	2221.3	2175.7	2088.2
17.5°	2221.3	2237.6	2273.9	2298.8	2317.3	2316.6	2315.2	2289.6	2251.1	2204.2	2098.8
20°	2240.5	2261.8	2312.3	2351.5	2378.5	2373.6	2365.7	2332.3	2287.4	2234.8	2108.8
22.5°	2298.1	2320.2	2375.7	2418.4	2444.7	2444.7	2421.2	2377.1	2329.4	2270.4	2122.3
25°	2380.7	2404.9	2463.9	2507.4	2519.5	2510.2	2486.7	2433.3	2378.5	2321.6	2150.8
27.5°	2481.7	2510.9	2565.7	2602.0	2598.5	2591.3	2567.1	2498.8	2444.0	2392.1	2199.2
30°	2607.7	2629.1	2686.0	2694.5	2681.7	2680.3	2646.1	2577.8	2526.6	2486.7	2268.2
32.5°	2726.6	2745.8	2791.3	2794.9	2772.1	2775.0	2742.9	2680.3	2651.1	2636.9	2384.2
35°	2852.5	2862.5	2901.6	2897.4	2882.4	2880.3	2867.5	2807.7	2817.0	2842.6	2548.6
37.5°	2957.9	2977.8	2999.9	3003.4	3002.7	3009.8	3018.4	2989.9	3043.3	3123.7	2764.3
40°	3054.7	3071.7	3104.5	3115.9	3143.6	3157.9	3187.0	3187.8	3310.9	3443.3	3029.8
42.5°	3120.1	3149.3	3210.5	3231.2	3298.8	3341.5	3384.9	3431.2	3609.8	3779.9	3342.9
45°	3177.1	3215.5	3317.3	3381.3	3473.2	3525.1	3616.9	3713.7	3970.6	4193.4	3661.0
47.5°	3263.2	3297.4	3414.1	3527.2	3666.0	3725.8	3863.2	4007.6	4343.6	4587.7	3965.7
50°	3382.8	3403.4	3522.3	3706.6	3883.8	3960.7	4142.2	4350.7	4742.1	4977.0	4233.3
52.5°	3535.8	3544.3	3639.0	3884.5	4118.0	4213.3	4453.9	4697.3	5090.9	5315.1	4445.3
55°	3716.6	3702.3	3776.3	4073.1	4385.6	4510.1	4768.5	5048.2	5483.0	5588.4	4599.8
57.5°	3895.2	3873.1	3932.2	4302.3	4715.8	4866.0	5167.0	5409.7	5833.2	5843.9	4708.0
60°	4084.5	4068.1	4138.6	4571.3	5120.8	5298.7	5577.0	5784.8	6172.0	6021.8	4725.1
62.5°	4278.8	4252.5	4352.8	4873.8	5577.0	5738.5	6008.3	6183.3	6504.3	6088.0	4560.6
65°	4467.4	4455.3	4610.5	5233.2	6096.5	6280.1	6542.0	6660.9	6770.5	5988.3	4152.8
67.5°	4668.1	4692.3	4940.0	5712.9	6774.1	7004.7	7287.2	7175.5	6846.7	5516.5	3497.3
70°	4974.1	4989.8	5372.7	6341.3	7647.3	7925.6	8062.3	7358.4	6479.4	4620.4	2629.1
72.5°	5105.8	5174.9	5759.2	7001.1	8639.5	8809.6	8322.8	6950.6	5397.6	3138.6	1381.4
73°	5076.6	5159.2	5777.0	7101.5	8717.0	8895.7	8267.2	6740.6	5017.6	2703.1	1184.3
75°	4713.0	4814.7	5545.7	7017.5	8566.2	8459.4	7374.8	5744.9	3390.6	1229.1	539.5
77.5°	3718.7	3747.9	4394.1	5666.6	6745.6	6547.7	5519.3	3590.6	1385.0	456.9	306.0
80°	1865.4	1972.9	2476.8	3246.1	4510.8	4446.1	3483.8	1698.1	577.2	268.3	202.8
82.5°	897.5	973.6	1206.4	1582.8	2492.4	2433.3	1725.2	928.1	366.5	156.6	119.6
85°	577.9	634.8	767.9	755.1	1024.9	978.6	775.1	702.5	217.1	81.8	83.3
87.5°	381.5	417.8	501.0	400.7	372.9	337.4	342.3	395.7	42.7	31.3	11.4
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°	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1	2214.1
2.5°	2189.9	2180.7	2150.1	2120.2	2091.7	2064.7	2046.9	2023.4	2007.7	2012.0	2018.4
5°	2135.1	2114.5	2060.4	2007.7	1957.9	1898.8	1851.2	1812.7	1783.5	1772.9	1770.7
7.5°	2077.5	2042.6	1965.0	1874.6	1790.0	1716.6	1632.0	1590.0	1540.9	1523.8	1518.1
10°	2042.6	1995.6	1886.7	1760.8	1633.4	1511.7	1419.9	1345.1	1277.5	1264.7	1258.3
12.5°	2032.6	1970.7	1824.1	1661.8	1492.5	1343.0	1207.1	1108.8	1043.4	1028.4	1006.4
15°	2027.0	1950.1	1765.8	1562.2	1347.3	1165.1	1022.0	907.4	847.6	807.8	808.5
17.5°	2022.0	1926.6	1700.3	1453.3	1222.0	1012.1	854.1	750.9	696.1	674.7	672.6
20°	2014.9	1898.8	1624.8	1338.7	1079.0	872.6	729.5	652.6	615.6	597.8	597.1
22.5°	2012.0	1871.8	1550.8	1222.0	952.3	765.1	646.9	592.9	569.4	557.3	557.3
25°	2019.1	1852.6	1473.2	1111.0	839.8	673.3	590.0	553.0	539.5	533.1	530.9
27.5°	2041.2	1844.0	1396.4	1000.0	736.6	610.6	551.6	526.0	516.0	511.0	511.7
30°	2083.2	1843.3	1320.9	890.4	659.8	563.0	521.0	503.2	495.4	492.5	491.8
32.5°	2150.8	1859.0	1246.9	800.0	595.0	523.1	492.5	479.7	476.1	474.0	473.3
35°	2265.4	1903.1	1173.6	717.4	545.2	487.5	465.5	459.1	454.1	456.2	456.9
37.5°	2419.8	1979.3	1103.9	652.6	507.5	461.2	442.7	437.0	434.1	436.3	438.4
40°	2626.9	2088.9	1045.5	600.7	480.4	439.1	422.8	417.8	414.9	418.5	419.2
42.5°	2855.4	2215.6	997.1	560.1	458.3	420.6	405.0	399.3	397.1	399.3	400.0
45°	3090.2	2362.9	972.2	530.9	439.8	407.1	390.7	384.3	379.3	377.9	380.1
47.5°	3321.6	2491.0	971.5	513.1	424.9	395.0	377.2	370.1	363.7	360.1	359.4
50°	3510.2	2592.8	988.6	505.3	412.1	381.5	363.7	356.6	348.0	340.9	342.3
52.5°	3652.5	2659.0	996.4	501.8	405.0	367.2	349.5	343.0	333.1	323.8	323.8
55°	3744.3	2674.6	977.2	498.2	399.3	352.3	333.1	327.4	317.4	308.2	308.2
57.5°	3775.6	2626.2	908.1	489.7	393.6	339.5	316.7	311.7	303.9	294.6	293.2
60°	3703.0	2462.5	787.2	464.0	382.2	326.0	298.9	296.8	293.9	286.1	285.4
62.5°	3423.3	2115.2	655.5	430.6	363.0	311.7	282.5	286.1	288.2	284.0	283.3
65°	2957.9	1717.4	560.1	384.3	337.4	291.8	264.8	274.0	279.7	279.7	278.3
67.5°	2399.2	1318.8	471.9	344.5	305.3	264.8	244.8	251.9	256.2	254.8	258.4
70°	1705.3	893.2	384.3	298.9	264.8	234.2	219.2	219.2	216.4	214.9	214.9
72.5°	827.0	510.3	311.7	249.8	225.6	200.0	187.9	182.9	177.2	176.5	172.9
73°	691.1	457.6	297.5	240.6	216.4	195.0	181.5	173.7	170.1	167.3	166.5
75°	420.6	347.3	248.4	202.8	184.3	168.0	155.9	148.7	145.2	143.1	142.3
77.5°	276.9	259.1	192.9	155.2	140.9	131.0	126.0	118.9	116.7	113.9	113.9
80°	206.4	197.9	138.1	109.6	101.1	92.5	91.1	89.7	84.0	80.4	79.0
82.5°	133.1	140.9	93.9	73.3	64.1	56.9	57.6	59.8	54.1	49.1	47.7
85°	94.7	101.8	56.9	33.5	27.0	23.5	26.3	23.5	24.2	19.2	15.7
87.5°	15.7	27.0	10.0	4.3	2.1	1.4	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)