

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: STREETWORKS

Report Number: P458711

Luminaire Tested: **GLAN-SA2C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458711
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: STREETWORKS
Catalog Number: GLAN-SA2C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 13478 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

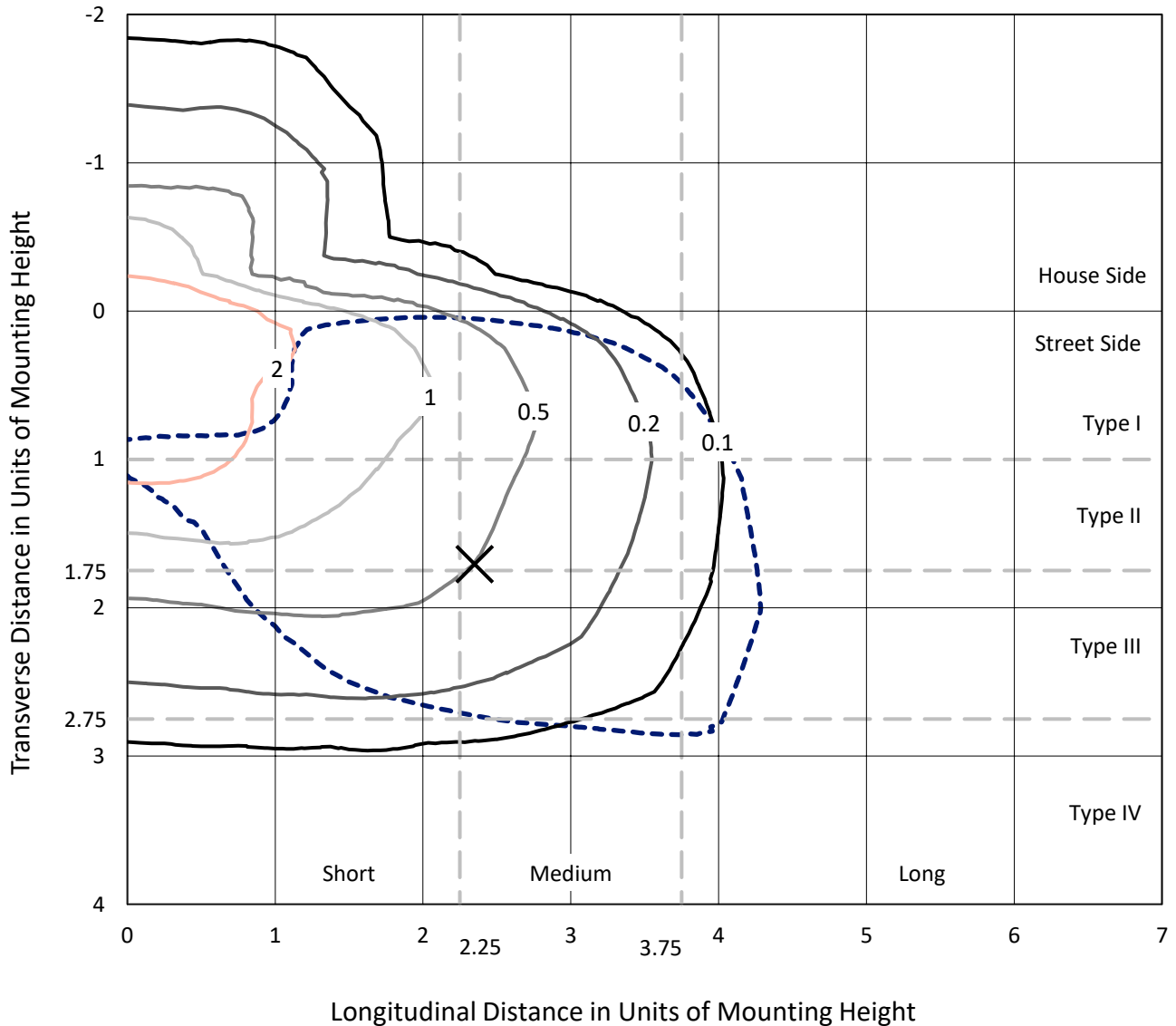
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

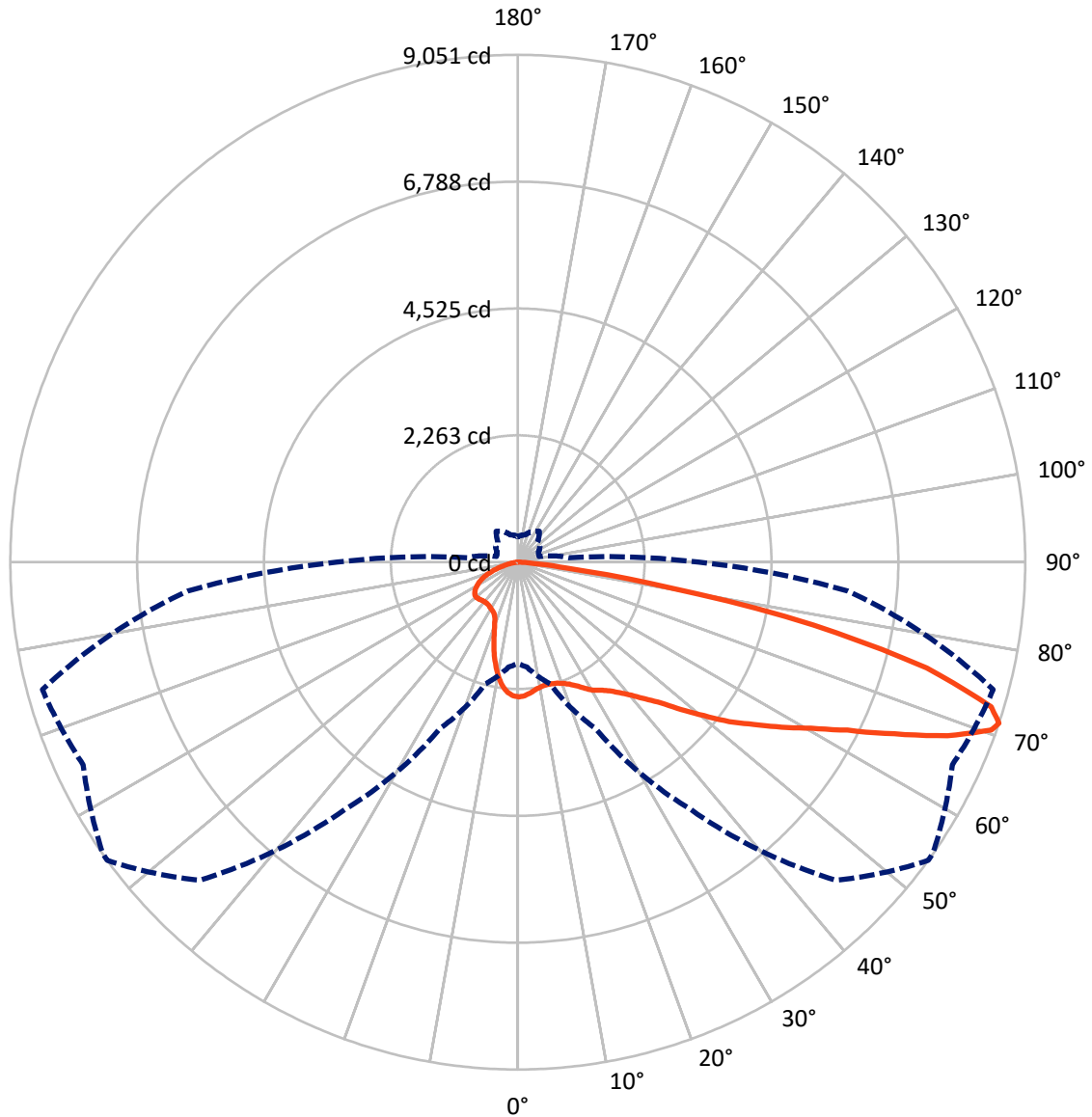
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2433.4	0.0	2433.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11044.6	0.0	11044.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	13478.0	0.0	13478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	1.6
10°-20°	565.8	4.2
20°-30°	942.1	7.0
30°-40°	1393.1	10.3
40°-50°	1962.3	14.6
50°-60°	2627.6	19.5
60°-70°	3311.8	24.6
70°-80°	2262.0	16.8
80°-90°	198.9	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°	13478.0	100.0
0°-180°	13478.0	100.0

Coefficient of Utilization



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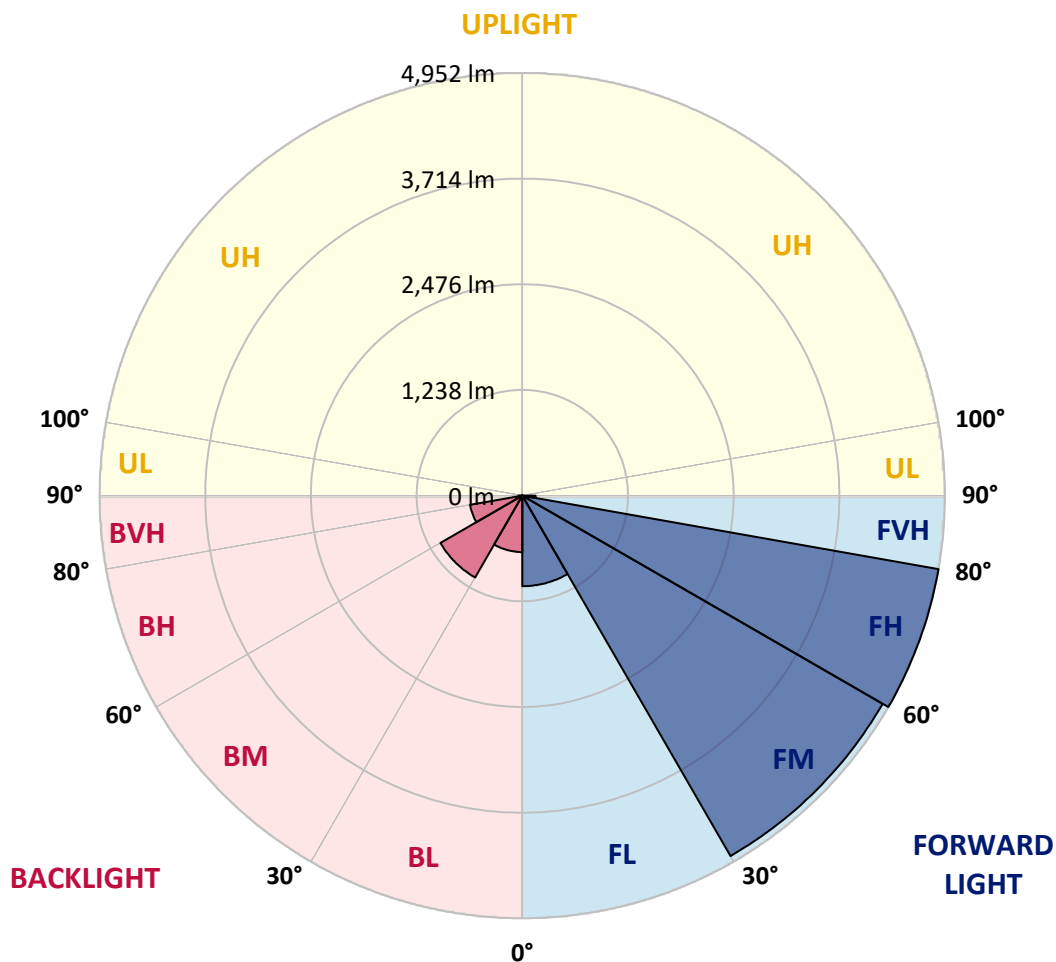
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.9	7.9			
FM	(30°-60°)	4875.9	36.2			
FH	(60°-80°)	4952.3	36.7			G2/5000
FVH	(80°-90°)	155.5	1.2			G2/225
BL	(0°-30°)	661.3	4.9	B2/1000		
BM	(30°-60°)	1107.1	8.2	B2/2500		
BH	(60°-80°)	621.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	43.4	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°	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7
2.5°	2323.1	2334.1	2337.0	2344.2	2359.5	2371.9	2384.3	2382.8	2400.3	2407.6	2414.1
5°	2219.8	2222.7	2233.6	2248.1	2275.1	2309.3	2342.8	2343.5	2386.5	2420.7	2437.4
7.5°	2144.0	2153.5	2160.8	2176.1	2204.5	2241.6	2294.7	2299.1	2375.6	2443.3	2478.9
10°	2094.5	2105.5	2113.5	2132.4	2160.8	2202.3	2259.8	2267.8	2367.5	2478.9	2541.5
12.5°	2049.4	2060.3	2067.6	2092.4	2129.5	2180.4	2245.2	2254.7	2370.5	2520.4	2610.0
15°	2077.1	2085.8	2082.9	2090.2	2114.9	2173.2	2251.1	2260.5	2381.4	2560.5	2677.7
17.5°	2200.1	2207.4	2183.4	2155.7	2144.0	2187.0	2269.3	2279.5	2403.2	2602.0	2746.8
20°	2381.4	2401.0	2348.6	2286.7	2230.7	2236.5	2307.1	2318.0	2433.8	2643.5	2817.5
22.5°	2617.3	2631.8	2567.8	2465.8	2362.4	2309.3	2363.9	2370.5	2479.7	2697.3	2894.6
25°	2894.6	2903.4	2814.6	2683.5	2534.3	2433.8	2441.8	2453.5	2555.4	2758.5	2963.1
27.5°	3164.0	3191.7	3089.0	2928.9	2732.3	2564.8	2548.8	2556.1	2637.6	2792.7	3010.4
30°	3483.6	3481.4	3373.0	3187.3	2935.4	2707.5	2650.0	2648.6	2682.1	2809.5	3044.6
32.5°	3738.4	3768.3	3662.0	3459.6	3167.6	2855.3	2719.9	2717.0	2716.3	2838.6	3095.6
35°	4028.2	4032.5	3935.0	3731.1	3418.8	3041.0	2817.5	2802.9	2786.2	2901.2	3164.7
37.5°	4287.4	4307.7	4218.2	3989.6	3665.6	3233.9	2951.4	2942.0	2891.0	3009.7	3275.4
40°	4489.7	4505.0	4451.2	4233.5	3908.8	3442.1	3121.8	3104.3	3042.4	3187.3	3423.2
42.5°	4556.0	4587.3	4608.4	4501.4	4188.3	3688.9	3331.5	3309.6	3262.3	3456.7	3593.5
45°	4561.1	4610.6	4722.0	4727.1	4469.4	3984.5	3576.1	3560.8	3557.1	3801.8	3833.1
47.5°	4522.5	4572.7	4759.8	4861.0	4719.8	4283.0	3929.2	3905.1	3907.3	4228.4	4101.7
50°	4429.3	4489.0	4716.2	4946.9	4915.6	4593.1	4301.9	4293.9	4339.0	4715.4	4380.5
52.5°	4253.9	4325.9	4671.0	5000.8	5061.2	4860.3	4725.6	4703.1	4817.4	5244.0	4685.6
55°	3768.3	3876.7	4505.8	5030.7	5199.6	5115.8	5107.1	5147.9	5299.3	5820.6	5021.2
57.5°	3514.9	3596.5	4146.8	5035.8	5374.3	5412.9	5552.7	5562.9	5827.9	6432.9	5400.5
60°	3376.6	3448.7	3950.3	5002.3	5618.2	5780.5	6008.4	6044.8	6344.0	7096.1	5793.6
62.5°	3255.7	3317.6	3832.3	4886.5	5893.4	6325.8	6598.8	6616.3	6930.1	7828.5	6181.7
65°	2971.1	3041.7	3595.0	4770.8	6130.7	7007.3	7382.2	7361.8	7554.0	8460.4	6424.8
67.5°	2587.4	2677.0	3151.6	4371.1	6247.9	7752.0	8264.6	8239.1	8169.9	8874.7	6494.7
70°	2097.4	2145.5	2584.5	3680.2	5779.8	8143.0	8961.3	8934.4	8551.4	8929.3	6164.2
71°	1804.8	1879.8	2250.3	3268.8	5390.3	8023.6	9050.8	9043.6	8552.1	8778.6	5915.2
72.5°	1408.7	1454.6	1782.2	2532.8	4581.5	7345.1	8829.5	8857.2	8366.5	8359.9	5402.0
75°	891.1	911.5	1118.3	1491.0	2513.9	5201.8	7537.3	7612.3	7428.8	6842.7	4017.3
77.5°	517.6	543.8	669.8	878.7	1086.2	2823.3	5393.2	5474.8	5161.7	3767.5	1644.6
80°	301.4	330.5	441.2	510.3	498.7	1047.6	2746.1	2885.2	2235.0	951.5	461.6
82.5°	167.4	187.1	310.1	310.9	265.7	342.2	864.2	904.2	637.8	383.7	188.6
85°	121.6	137.6	200.2	181.3	127.4	147.1	300.7	315.2	257.7	161.6	61.2
87.5°	43.0	61.2	109.9	87.4	34.9	30.6	86.6	70.6	65.5	45.1	13.8
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°	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7	2404.7
2.5°	2417.8	2419.2	2412.0	2398.9	2385.7	2369.0	2350.1	2335.5	2329.0	2328.2	2327.5
5°	2444.0	2447.6	2420.0	2379.2	2334.1	2278.7	2231.4	2177.5	2163.7	2141.9	2148.4
7.5°	2486.2	2484.0	2429.4	2342.8	2237.2	2120.0	2021.0	1963.5	1903.8	1887.0	1887.8
10°	2546.6	2532.8	2429.4	2268.5	2092.4	1918.4	1780.0	1692.7	1645.3	1606.0	1591.5
12.5°	2610.7	2575.8	2406.1	2164.4	1906.0	1692.7	1544.1	1426.2	1395.6	1363.6	1364.3
15°	2671.9	2613.6	2360.3	2018.1	1705.0	1451.7	1307.5	1236.9	1227.5	1231.1	1230.4
17.5°	2727.2	2640.6	2290.4	1855.0	1470.6	1244.9	1168.5	1173.6	1199.1	1217.3	1219.4
20°	2783.2	2656.6	2186.3	1636.6	1249.3	1119.7	1122.6	1162.7	1201.2	1226.0	1229.6
22.5°	2836.4	2663.9	2064.0	1425.5	1089.1	1066.6	1109.5	1152.5	1190.3	1214.3	1218.0
25°	2871.3	2647.1	1890.7	1204.9	1010.5	1047.6	1092.8	1129.2	1161.2	1186.0	1191.8
27.5°	2880.8	2593.2	1675.9	1026.5	974.1	1029.4	1070.9	1097.9	1122.6	1145.9	1150.3
30°	2875.7	2513.9	1440.0	921.7	953.0	1008.3	1040.4	1060.0	1089.9	1108.1	1111.7
32.5°	2867.7	2421.4	1194.0	865.6	935.5	988.7	1007.6	1025.1	1024.3	1017.1	1022.2
35°	2870.6	2310.8	994.5	832.1	920.2	974.1	990.1	968.3	905.7	902.8	899.8
37.5°	2885.9	2201.6	849.6	808.8	912.2	971.9	980.7	880.2	824.9	799.4	792.8
40°	2925.2	2074.2	754.2	791.4	911.5	988.7	937.7	835.8	729.5	680.0	676.3
42.5°	2977.6	1948.9	696.0	780.4	920.2	1014.1	920.2	773.2	657.4	628.3	623.9
45°	3055.5	1805.5	664.0	775.3	933.3	1023.6	914.4	727.3	628.3	605.0	605.0
47.5°	3143.6	1668.6	646.5	771.7	950.1	1017.1	862.7	712.7	614.5	617.4	631.2
50°	3231.0	1550.0	633.4	763.7	964.6	1013.4	841.6	712.0	618.1	655.2	680.0
52.5°	3332.2	1466.2	617.4	750.6	964.6	990.1	835.0	726.6	628.3	639.2	650.1
55°	3454.5	1440.0	597.0	722.2	947.2	931.9	831.4	747.7	635.6	610.1	614.5
57.5°	3616.1	1482.3	577.3	686.5	907.1	871.4	830.0	753.5	618.8	597.7	593.3
60°	3803.9	1566.0	571.5	650.1	852.5	819.8	821.2	736.8	595.5	573.7	577.3
62.5°	3935.7	1616.2	567.9	622.5	792.8	763.0	800.1	716.4	585.3	566.4	570.0
65°	3935.7	1555.1	534.4	580.2	715.7	694.5	774.6	690.9	572.2	550.4	546.7
67.5°	3786.5	1376.7	483.4	516.9	630.5	616.6	738.9	660.3	552.6	535.8	527.1
70°	3397.7	1044.0	419.3	442.6	522.7	535.1	693.1	618.8	519.8	499.4	486.3
71°	3226.6	909.3	392.4	404.8	481.2	499.4	671.2	601.4	505.3	476.1	452.8
72.5°	2896.8	765.9	351.6	356.7	411.3	444.1	625.4	567.9	477.6	436.1	409.9
75°	2200.8	559.1	283.2	280.3	304.3	352.4	529.3	506.0	418.6	362.6	347.3
77.5°	950.8	304.3	211.9	214.0	206.8	267.2	416.4	434.6	358.9	294.9	281.0
80°	288.3	175.5	144.9	147.8	138.3	179.1	293.4	340.7	288.3	229.3	210.4
82.5°	147.8	104.8	99.0	97.6	88.1	101.2	177.6	233.0	206.0	143.4	126.7
85°	64.1	56.1	48.8	47.3	41.5	36.4	63.3	116.5	109.2	80.1	76.4
87.5°	16.0	14.6	9.5	8.7	5.1	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)