

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: P380928

Luminaire Tested: **USSL-XL-PA3A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3A-730-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22423 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 172
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: 28.75 FT

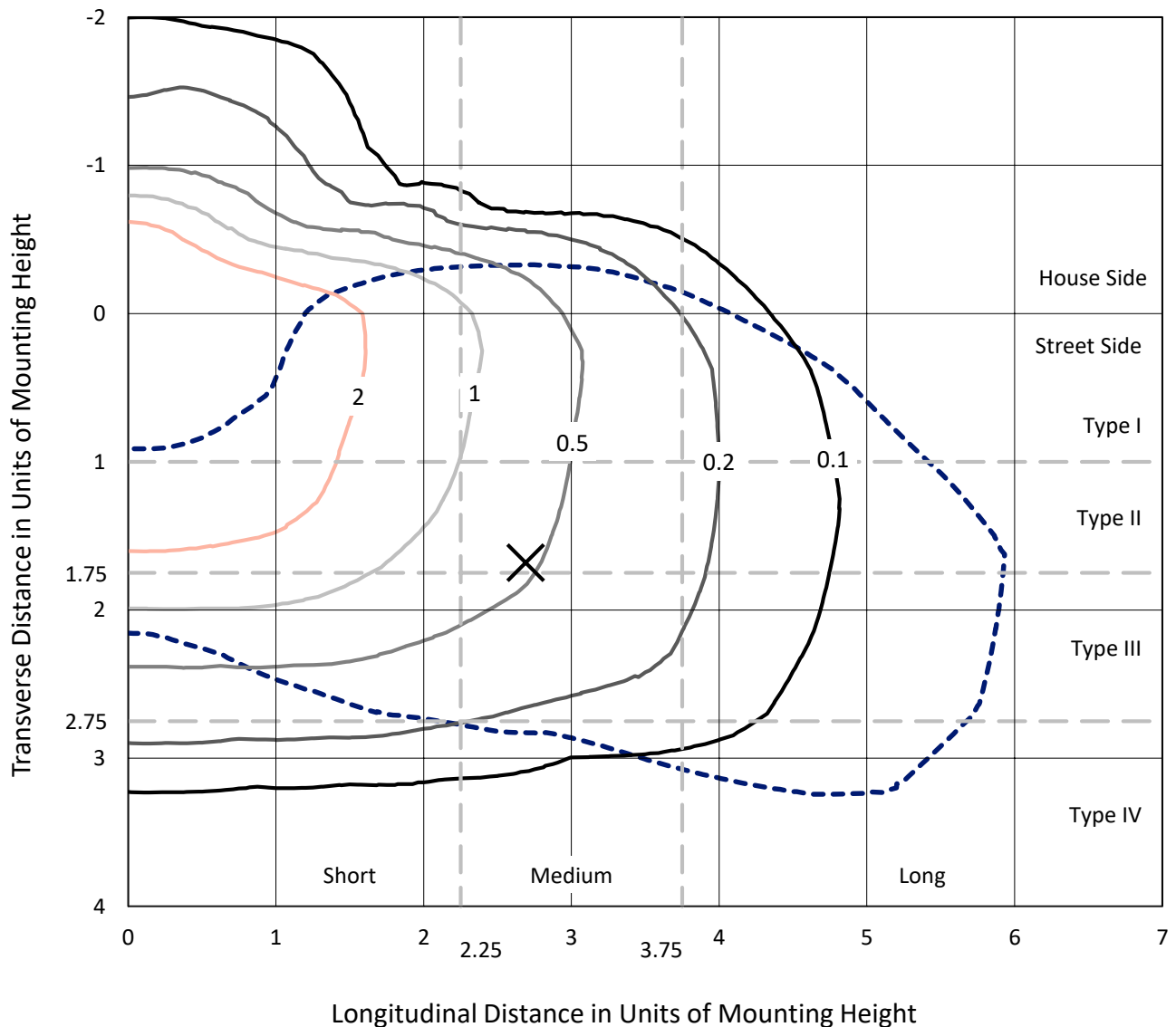


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

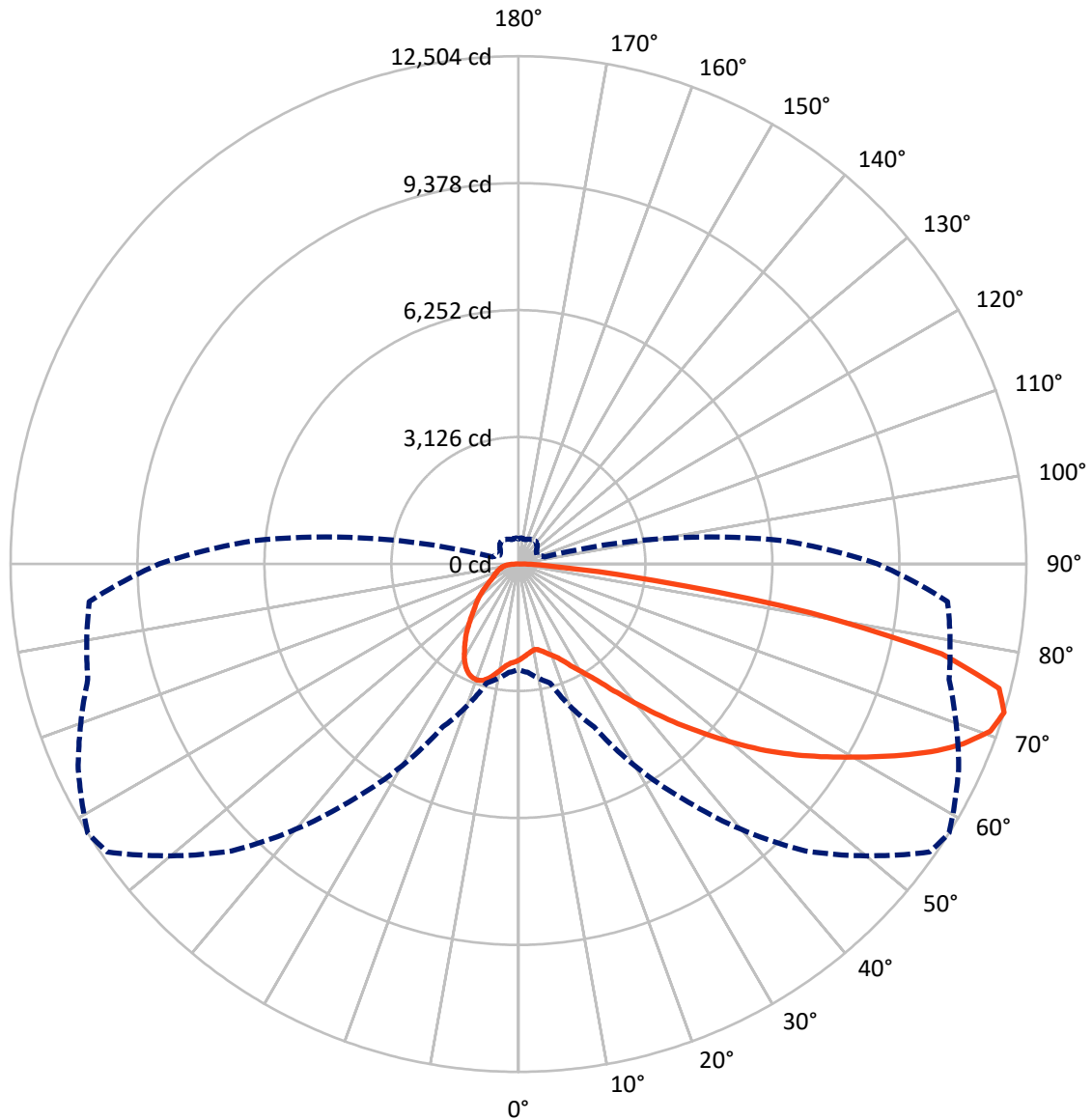


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5085.3	0.0	5085.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17337.7	0.0	17337.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	22423.0	0.0	22423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.0
10°-20°	723.6	3.2
20°-30°	1296.1	5.8
30°-40°	1949.7	8.7
40°-50°	3157.3	14.1
50°-60°	4752.8	21.2
60°-70°	5593.5	24.9
70°-80°	3966.3	17.7
80°-90°	755.8	3.4
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°	22423.0	100.0
0°-180°	22423.0	100.0

Coefficient of Utilization



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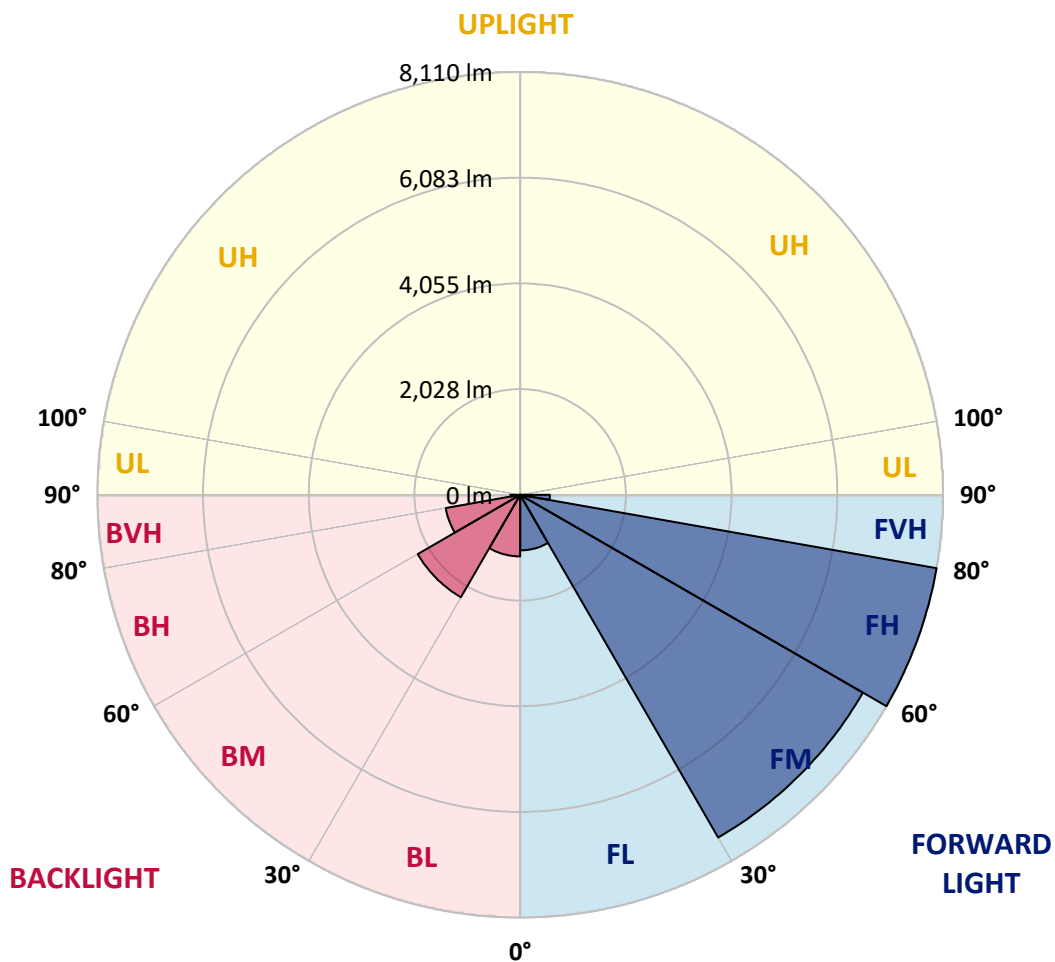
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.3	4.8			
FM	(30°-60°)	7590.8	33.9			
FH	(60°-80°)	8110.5	36.2			G4/12000
FVH	(80°-90°)	570.1	2.5			G4/750
BL	(0°-30°)	1181.2	5.3	B3/2500		
BM	(30°-60°)	2269.0	10.1	B2/2500		
BH	(60°-80°)	1449.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	185.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1
2.5°	2276.3	2264.5	2267.5	2267.5	2279.3	2285.2	2288.2	2297.1	2303.0	2317.8	2338.5
5°	2169.8	2160.9	2163.9	2166.8	2187.5	2208.3	2226.0	2237.9	2255.6	2279.3	2308.9
7.5°	2092.8	2086.9	2089.9	2095.8	2113.5	2137.2	2166.8	2184.6	2211.2	2255.6	2305.9
10°	2036.6	2036.6	2039.5	2051.4	2069.1	2098.7	2122.4	2143.1	2196.4	2276.3	2353.3
12.5°	1992.2	1992.2	2001.1	2024.7	2054.3	2083.9	2140.2	2163.9	2234.9	2344.4	2436.2
15°	1989.2	1992.2	1995.1	2015.9	2048.4	2113.5	2196.4	2231.9	2317.8	2448.0	2554.6
17.5°	2036.6	2039.5	2027.7	2033.6	2072.1	2163.9	2273.4	2314.8	2424.4	2566.4	2676.0
20°	2181.6	2181.6	2146.1	2113.5	2140.2	2240.8	2365.1	2406.6	2528.0	2684.8	2794.4
22.5°	2477.6	2492.4	2409.6	2338.5	2297.1	2353.3	2465.8	2510.2	2646.4	2815.1	2924.6
25°	2835.8	2850.6	2738.1	2637.5	2560.5	2551.6	2625.6	2673.0	2785.5	2960.1	3051.9
27.5°	3182.1	3155.5	3051.9	2957.2	2859.5	2779.6	2835.8	2877.3	3007.5	3140.7	3196.9
30°	3454.5	3433.8	3333.1	3265.0	3173.3	3069.7	3037.1	3081.5	3188.1	3312.4	3342.0
32.5°	3756.4	3741.6	3641.0	3552.2	3475.2	3377.5	3306.5	3327.2	3386.4	3475.2	3493.0
35°	4141.2	4173.8	4067.2	3886.7	3800.8	3706.1	3655.8	3661.7	3706.1	3762.3	3732.7
37.5°	4546.8	4585.3	4591.2	4307.0	4191.6	4105.7	4052.4	4073.1	4126.4	4164.9	4073.1
40°	5298.6	5260.2	5106.2	4896.1	4718.5	4635.6	4561.6	4558.6	4597.1	4665.2	4499.4
42.5°	6296.2	6260.7	5949.9	5677.5	5396.3	5301.6	5156.6	5094.4	5112.2	5198.0	4967.1
45°	7252.3	7237.5	6988.9	6672.1	6334.7	6151.2	5819.6	5668.7	5653.9	5721.9	5446.7
47.5°	8101.9	8036.8	7856.2	7610.5	7575.0	7095.4	6485.7	6281.4	6210.4	6248.9	5941.0
50°	9010.7	8788.6	8540.0	8389.0	8646.6	8199.6	7157.6	6944.5	6769.8	6796.5	6476.8
52.5°	9493.2	9120.2	8957.4	9001.8	9348.1	9176.4	7888.8	7628.3	7347.1	7385.5	7009.6
55°	9078.7	9075.8	9146.8	9422.1	9904.6	9706.3	8584.4	8291.3	7983.5	7992.4	7622.4
57.5°	8510.4	8625.8	8992.9	9599.7	10594.3	10262.8	9268.2	8957.4	8676.2	8631.8	8318.0
60°	7992.4	8119.7	8652.5	9570.1	10834.1	10771.9	9919.4	9647.1	9419.2	9288.9	9049.1
62.5°	7205.0	7299.7	8054.5	9380.7	10632.8	11139.0	10579.5	10393.0	10221.4	9952.0	9836.5
65°	6278.5	6311.0	7107.3	8756.1	10381.2	11281.1	11236.7	11153.8	10988.0	10591.4	10615.1
67.5°	5275.0	5340.1	6038.7	7758.5	9830.6	11216.0	11745.8	11813.9	11618.5	11023.6	11112.4
70°	4206.4	4286.3	4816.1	6379.1	8895.2	10934.7	12216.5	12326.0	11950.1	11165.6	11204.1
72.5°	2602.0	2678.9	3034.1	4431.3	7051.0	9990.5	12361.5	12503.6	11959.0	10976.2	10606.2
75°	899.9	908.8	1187.0	2125.4	4185.6	7542.4	11887.9	12222.4	11583.0	10286.5	9229.7
77.5°	411.5	426.3	526.9	876.2	1856.0	4070.2	9815.8	10653.5	10440.4	9209.0	7104.3
80°	284.2	290.1	364.1	523.9	1071.6	1432.7	6195.6	7287.9	7660.8	7131.0	4552.7
82.5°	213.1	219.1	281.2	355.2	772.6	695.6	2359.2	3386.4	4209.3	4132.4	1903.4
85°	204.2	201.3	219.1	236.8	515.1	414.4	763.7	1047.9	1642.9	1406.1	479.5
87.5°	88.8	97.7	225.0	133.2	269.4	192.4	331.5	387.8	500.3	435.1	171.7
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°	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1	2365.1
2.5°	2347.4	2353.3	2371.1	2397.7	2412.5	2442.1	2462.8	2474.7	2483.6	2486.5	2486.5
5°	2326.7	2338.5	2377.0	2421.4	2462.8	2525.0	2581.2	2613.8	2637.5	2646.4	2649.3
7.5°	2332.6	2362.2	2418.4	2483.6	2536.8	2616.8	2684.8	2750.0	2803.3	2824.0	2824.0
10°	2388.8	2430.3	2507.2	2593.1	2661.2	2744.0	2815.1	2871.3	2933.5	2969.0	2974.9
12.5°	2474.7	2525.0	2625.6	2720.4	2797.3	2862.5	2927.6	2969.0	2998.6	3025.3	3031.2
15°	2596.0	2658.2	2758.8	2856.5	2924.6	2966.1	2983.8	2983.8	2980.9	2983.8	2989.7
17.5°	2717.4	2776.6	2877.3	2974.9	3007.5	2983.8	2963.1	2957.2	2954.2	2948.3	2951.3
20°	2835.8	2892.1	2977.9	3051.9	3025.3	2942.4	2915.7	2912.8	2903.9	2898.0	2892.1
22.5°	2954.2	2995.7	3066.7	3093.3	2986.8	2868.4	2835.8	2818.1	2806.2	2791.4	2776.6
25°	3090.4	3102.2	3155.5	3114.1	2892.1	2732.2	2684.8	2658.2	2646.4	2631.6	2619.7
27.5°	3217.7	3217.7	3226.5	3081.5	2752.9	2551.6	2480.6	2433.2	2430.3	2427.3	2424.4
30°	3333.1	3318.3	3288.7	2983.8	2572.4	2329.6	2223.1	2175.7	2193.5	2208.3	2211.2
32.5°	3469.3	3439.7	3356.8	2850.6	2356.3	2081.0	1950.7	1930.0	1950.7	1968.5	1956.7
35°	3682.4	3629.1	3427.8	2696.7	2149.1	1853.0	1728.7	1699.1	1693.2	1690.2	1666.6
37.5°	3987.3	3895.5	3484.1	2530.9	1944.8	1651.8	1560.0	1497.8	1441.6	1382.4	1373.5
40°	4360.3	4203.4	3522.6	2341.5	1728.7	1483.0	1385.3	1305.4	1210.7	1107.1	1095.3
42.5°	4768.8	4534.9	3540.3	2131.3	1539.3	1343.9	1222.5	1121.9	1015.3	935.4	920.6
45°	5209.8	4893.1	3525.5	1930.0	1385.3	1225.5	1089.3	979.8	894.0	837.7	825.9
47.5°	5639.1	5304.6	3484.1	1770.2	1266.9	1124.9	985.7	885.1	820.0	757.8	743.0
50°	6189.6	5698.3	3433.8	1645.8	1136.7	1024.2	920.6	814.0	740.0	710.4	704.5
52.5°	6799.4	6092.0	3374.6	1488.9	1009.4	944.3	879.2	784.4	760.8	704.5	695.6
55°	7459.5	6559.7	3362.7	1290.6	896.9	888.0	837.7	811.1	817.0	704.5	689.7
57.5°	8155.2	7059.9	3389.4	1092.3	805.2	837.7	855.5	834.8	825.9	719.3	689.7
60°	8880.4	7542.4	3309.4	908.8	734.1	796.3	876.2	822.9	757.8	713.4	692.7
62.5°	9584.9	7948.0	2963.1	778.5	680.8	784.4	864.4	778.5	704.5	704.5	695.6
65°	10097.0	8128.5	2317.8	683.8	645.3	769.6	843.6	748.9	689.7	710.4	698.6
67.5°	10156.2	7942.0	1557.0	609.8	615.7	743.0	796.3	722.3	674.9	728.2	710.4
70°	9792.1	7456.6	953.2	553.5	577.2	695.6	754.8	695.6	654.2	713.4	686.8
72.5°	8847.9	6550.8	672.0	506.2	535.8	651.2	716.4	672.0	624.6	645.3	618.7
75°	7258.3	5076.6	532.8	461.8	494.3	609.8	683.8	636.4	589.1	580.2	562.4
77.5°	5141.8	3253.2	429.2	426.3	449.9	559.5	639.4	595.0	547.6	529.9	518.0
80°	2957.2	1595.5	370.0	384.8	408.5	509.1	586.1	547.6	503.2	476.6	458.8
82.5°	1130.8	556.5	325.6	334.5	361.1	455.9	532.8	500.3	455.9	479.5	402.6
85°	367.1	304.9	266.4	275.3	301.9	378.9	470.7	444.0	393.7	349.3	322.7
87.5°	162.8	165.8	142.1	156.9	189.4	251.6	343.4	325.6	287.1	239.8	230.9
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)