

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209490

Luminaire Tested: UPW-SA2-130-727-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-727-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13846 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

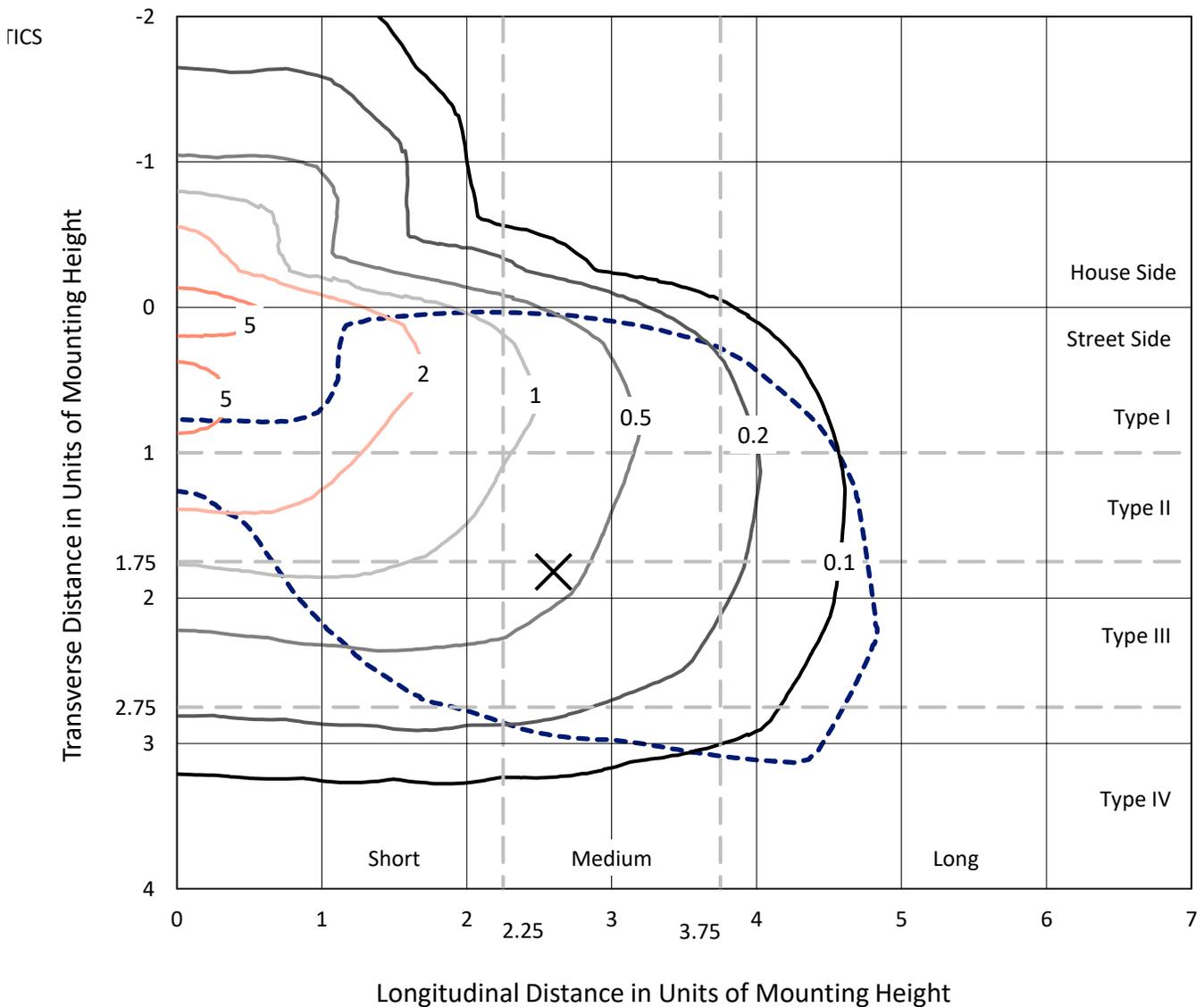
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

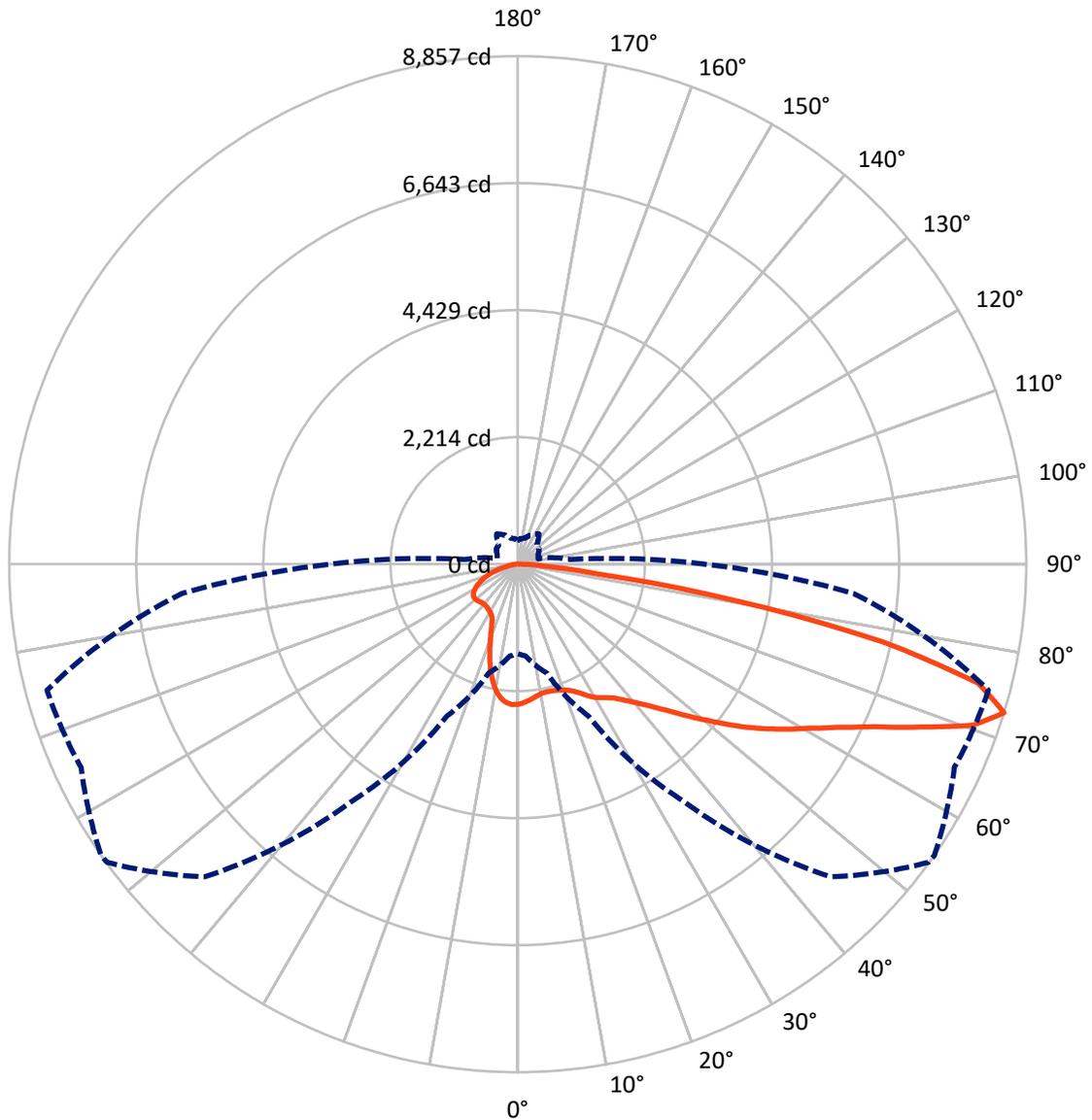
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: UPW-SA2-130-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.5	0.0	2573.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11272.5	0.0	11272.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	13846.0	0.0	13846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	1.6
10°-20°	588.3	4.2
20°-30°	970.0	7.0
30°-40°	1434.9	10.4
40°-50°	2002.8	14.5
50°-60°	2607.8	18.8
60°-70°	3204.9	23.1
70°-80°	2512.2	18.1
80°-90°	304.0	2.2
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°	13846.0	100.0
0°-180°	13846.0	100.0



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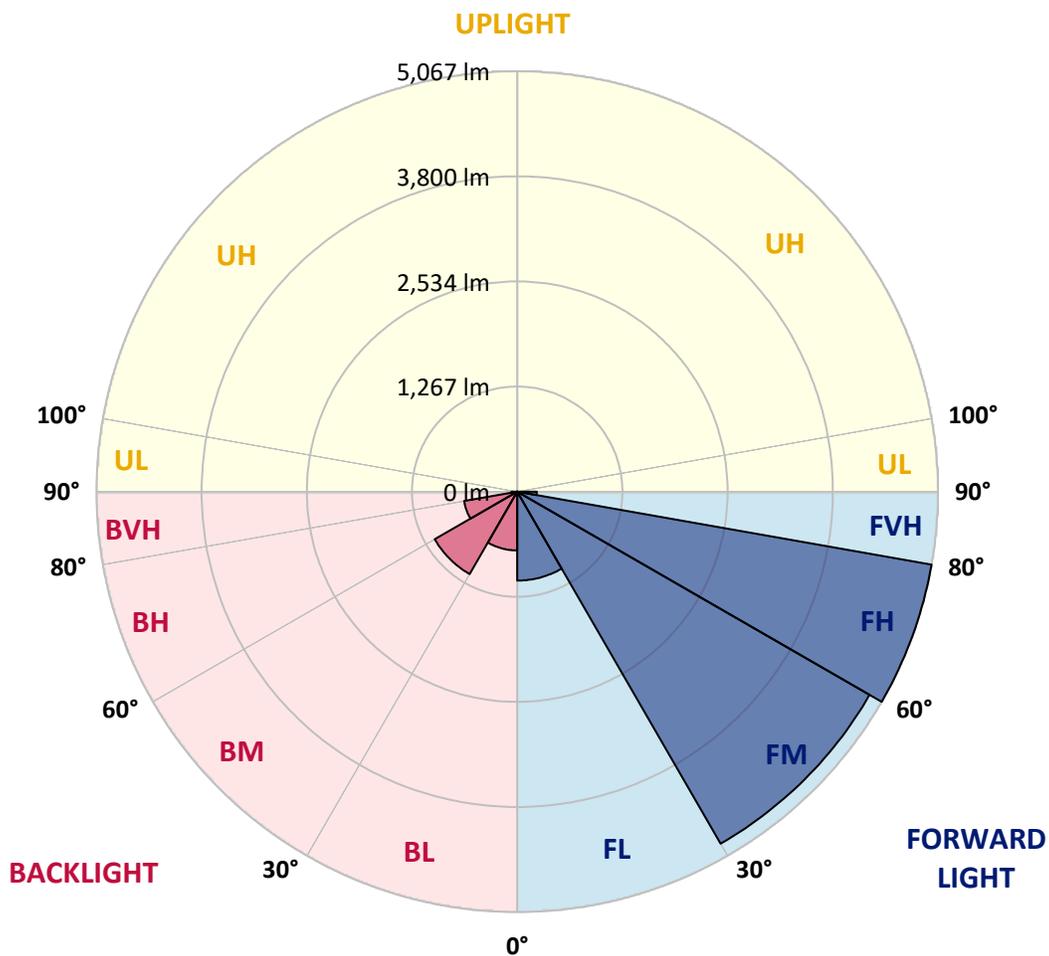
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.3	7.7			
FM (30°-60°)	4899.0	35.4			
FH (60°-80°)	5067.2	36.6			G3/7500
FVH (80°-90°)	235.1	1.7			G3/500
BL (0°-30°)	708.1	5.1	B2/1000		
BM (30°-60°)	1146.5	8.3	B2/2500		
BH (60°-80°)	649.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	69.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CATALOG NUMBER: UPW-SA2-130-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1
2.5°	2362.6	2357.0	2364.0	2373.9	2384.6	2399.1	2407.5	2411.3	2425.8	2431.4	2443.5
5°	2253.2	2250.4	2262.1	2278.9	2302.8	2336.4	2363.6	2368.7	2407.1	2434.2	2459.0
7.5°	2173.7	2173.7	2187.3	2207.4	2234.0	2279.4	2317.7	2324.8	2389.8	2448.2	2494.0
10°	2110.6	2112.9	2128.8	2152.7	2184.0	2232.2	2283.1	2291.1	2385.1	2481.0	2553.9
12.5°	2068.5	2074.1	2088.6	2110.1	2148.9	2207.4	2271.9	2282.7	2394.9	2527.7	2625.9
15°	2095.1	2104.5	2105.9	2114.8	2136.3	2199.9	2278.5	2289.7	2415.9	2575.4	2707.8
17.5°	2212.0	2215.3	2200.8	2182.1	2171.8	2212.5	2298.1	2309.8	2441.2	2622.7	2786.3
20°	2389.8	2387.9	2356.6	2306.0	2253.7	2260.2	2330.4	2342.5	2475.3	2664.3	2864.9
22.5°	2614.2	2607.7	2559.5	2466.5	2377.1	2339.7	2387.0	2397.2	2526.8	2723.7	2949.1
25°	2886.4	2871.9	2808.3	2683.5	2552.0	2455.7	2472.1	2481.9	2601.6	2790.1	3026.2
27.5°	3173.6	3159.1	3078.2	2927.1	2752.2	2602.1	2589.5	2597.9	2686.7	2839.2	3083.3
30°	3473.8	3458.4	3384.5	3215.2	2964.5	2753.6	2698.9	2702.2	2746.6	2865.8	3130.1
32.5°	3775.4	3760.9	3678.2	3481.8	3195.1	2916.3	2777.9	2773.7	2782.6	2893.4	3182.9
35°	4081.3	4086.9	3990.1	3772.6	3450.4	3097.3	2871.5	2862.6	2842.9	2950.0	3257.7
37.5°	4408.7	4404.9	4279.6	4052.3	3717.5	3293.8	3005.7	3004.3	2936.5	3057.1	3375.1
40°	4627.5	4629.9	4553.6	4338.5	3987.3	3511.2	3177.8	3174.5	3085.6	3217.5	3529.0
42.5°	4713.1	4728.5	4748.2	4611.6	4269.8	3763.3	3383.1	3378.4	3293.8	3447.6	3710.0
45°	4719.2	4750.1	4871.6	4854.3	4556.0	4051.8	3645.4	3632.3	3571.5	3753.5	3926.0
47.5°	4666.8	4698.6	4900.6	4998.9	4811.8	4356.3	3952.2	3941.9	3889.6	4136.0	4159.9
50°	4552.2	4582.6	4840.8	5069.5	5022.2	4649.0	4305.8	4278.6	4250.6	4578.0	4427.4
52.5°	4337.6	4396.0	4760.8	5086.3	5148.0	4909.1	4677.6	4659.8	4675.2	5044.2	4695.3
55°	3829.2	3894.7	4554.6	5072.3	5241.1	5127.5	5049.4	5048.4	5128.4	5533.4	4982.9
57.5°	3544.4	3590.7	4134.6	5048.4	5351.5	5344.5	5417.4	5426.3	5582.0	6066.1	5284.1
60°	3383.5	3432.2	3921.8	4960.0	5522.6	5625.1	5792.9	5810.7	6043.1	6655.8	5646.6
62.5°	3237.2	3290.5	3789.9	4780.0	5724.2	6026.3	6242.8	6258.7	6531.4	7261.9	5996.8
65°	2987.0	3047.3	3596.8	4661.7	5907.5	6549.6	6814.8	6825.5	7092.1	7897.0	6264.8
67.5°	2633.4	2688.6	3232.5	4400.2	6043.1	7185.2	7575.2	7581.3	7648.2	8345.4	6401.8
70°	2220.5	2241.5	2713.4	3860.6	5882.7	7779.6	8408.6	8410.0	8155.1	8632.6	6379.4
72.5°	1560.1	1609.7	1969.8	2922.4	5055.4	7707.1	8841.2	8857.1	8390.8	8487.6	5869.6
75°	956.8	1009.2	1235.6	1771.0	3207.2	6061.4	8168.7	8279.0	7948.9	7567.7	4794.9
77.5°	639.8	659.4	806.3	1032.6	1453.0	3487.4	6280.2	6487.9	6603.4	5518.9	3066.5
80°	356.8	394.2	534.5	641.6	646.3	1385.7	3765.6	3814.3	3674.0	2197.5	946.1
82.5°	188.9	209.5	356.8	376.9	352.6	463.9	1403.5	1404.9	1173.8	589.3	281.1
85°	146.4	163.7	244.6	230.1	180.1	205.8	463.0	488.2	399.4	241.3	91.7
87.5°	73.0	90.7	166.0	145.9	70.6	58.9	165.6	176.8	157.6	94.5	33.2
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°	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1	2442.1
2.5°	2448.2	2452.4	2457.6	2452.0	2450.1	2442.6	2430.0	2427.2	2420.6	2421.1	2424.8
5°	2469.7	2476.7	2473.9	2452.4	2426.7	2390.7	2353.3	2321.5	2300.4	2299.0	2297.6
7.5°	2510.9	2515.6	2493.6	2432.3	2360.3	2277.1	2198.5	2129.7	2088.1	2077.8	2075.5
10°	2575.4	2574.5	2514.2	2390.7	2247.1	2098.4	1972.1	1876.7	1821.1	1804.7	1800.5
12.5°	2647.4	2636.7	2521.2	2314.9	2087.2	1880.9	1721.0	1614.8	1556.9	1538.1	1533.5
15°	2721.8	2695.1	2503.9	2201.8	1890.8	1646.6	1478.8	1380.5	1349.2	1338.9	1337.0
17.5°	2791.0	2739.6	2454.3	2048.4	1666.8	1413.3	1282.3	1243.0	1250.5	1264.1	1264.6
20°	2858.8	2769.5	2374.8	1854.8	1430.6	1221.1	1176.6	1205.6	1241.2	1268.8	1272.5
22.5°	2925.7	2790.5	2272.4	1631.2	1219.2	1113.0	1144.4	1197.2	1237.9	1267.8	1273.0
25°	2981.8	2795.7	2131.1	1392.7	1072.4	1072.4	1128.9	1179.0	1219.2	1248.7	1253.8
27.5°	3002.4	2761.1	1931.9	1172.0	998.5	1053.6	1107.4	1149.0	1183.2	1214.5	1220.1
30°	3010.3	2697.0	1701.8	994.7	968.1	1033.5	1078.4	1114.0	1146.2	1175.7	1180.8
32.5°	3011.8	2619.8	1457.7	894.2	947.0	1012.5	1042.4	1073.8	1108.4	1120.1	1121.9
35°	3020.6	2528.7	1200.5	842.7	927.4	992.8	1016.7	1039.1	983.0	987.2	991.0
37.5°	3046.4	2438.4	985.4	813.7	914.7	982.6	1011.1	929.7	885.8	875.5	874.1
40°	3094.5	2342.1	825.9	790.4	910.1	987.7	975.1	868.0	792.2	735.6	727.2
42.5°	3161.4	2238.2	723.9	774.9	913.3	1012.5	925.0	808.6	682.8	646.3	641.6
45°	3236.7	2129.3	668.8	764.2	924.6	1031.7	914.7	729.6	631.8	604.2	601.9
47.5°	3309.7	1996.0	640.2	759.5	940.0	1016.2	871.3	705.2	607.5	593.0	594.4
50°	3393.4	1875.8	622.9	754.3	953.6	1006.4	822.2	692.6	598.1	615.9	634.6
52.5°	3464.0	1751.4	607.5	744.1	958.7	989.1	809.5	694.9	598.1	632.3	650.1
55°	3547.7	1657.4	589.7	722.5	948.9	940.0	800.6	709.0	605.2	583.6	585.5
57.5°	3655.7	1626.5	570.1	688.9	916.2	868.5	796.4	722.5	600.9	587.4	592.1
60°	3805.4	1659.3	562.1	644.9	865.2	812.3	796.9	715.5	571.5	548.1	548.6
62.5°	3948.0	1695.7	561.7	617.3	802.5	762.3	786.1	692.6	556.5	543.0	548.1
65°	3994.8	1658.8	539.2	586.4	731.9	702.4	766.5	668.3	545.3	524.7	523.8
67.5°	3932.1	1544.2	493.9	536.4	651.0	632.7	740.8	639.3	527.5	510.7	507.9
70°	3746.0	1288.4	437.7	470.5	558.9	554.2	700.1	605.6	503.7	489.2	477.0
72.5°	3245.1	918.0	369.0	391.4	455.0	470.0	644.0	561.7	470.0	438.7	420.0
75°	2665.2	679.5	303.0	307.7	345.6	386.3	566.8	510.2	430.3	376.9	362.4
77.5°	1632.1	415.8	241.3	243.2	247.9	308.2	466.7	452.7	379.7	314.3	304.0
80°	528.5	226.8	174.4	183.3	169.3	225.9	361.0	385.4	326.0	262.8	251.6
82.5°	201.1	132.3	117.9	123.9	117.4	151.5	263.3	308.7	267.0	216.1	175.8
85°	97.3	74.8	69.7	78.1	72.5	77.6	168.4	227.3	202.5	140.8	130.9
87.5°	34.6	33.2	26.7	36.0	30.9	27.6	51.4	114.6	133.8	96.8	86.5
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)