

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: P1209355

Luminaire Tested: UPW-SA2-110-750-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-750-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15093 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

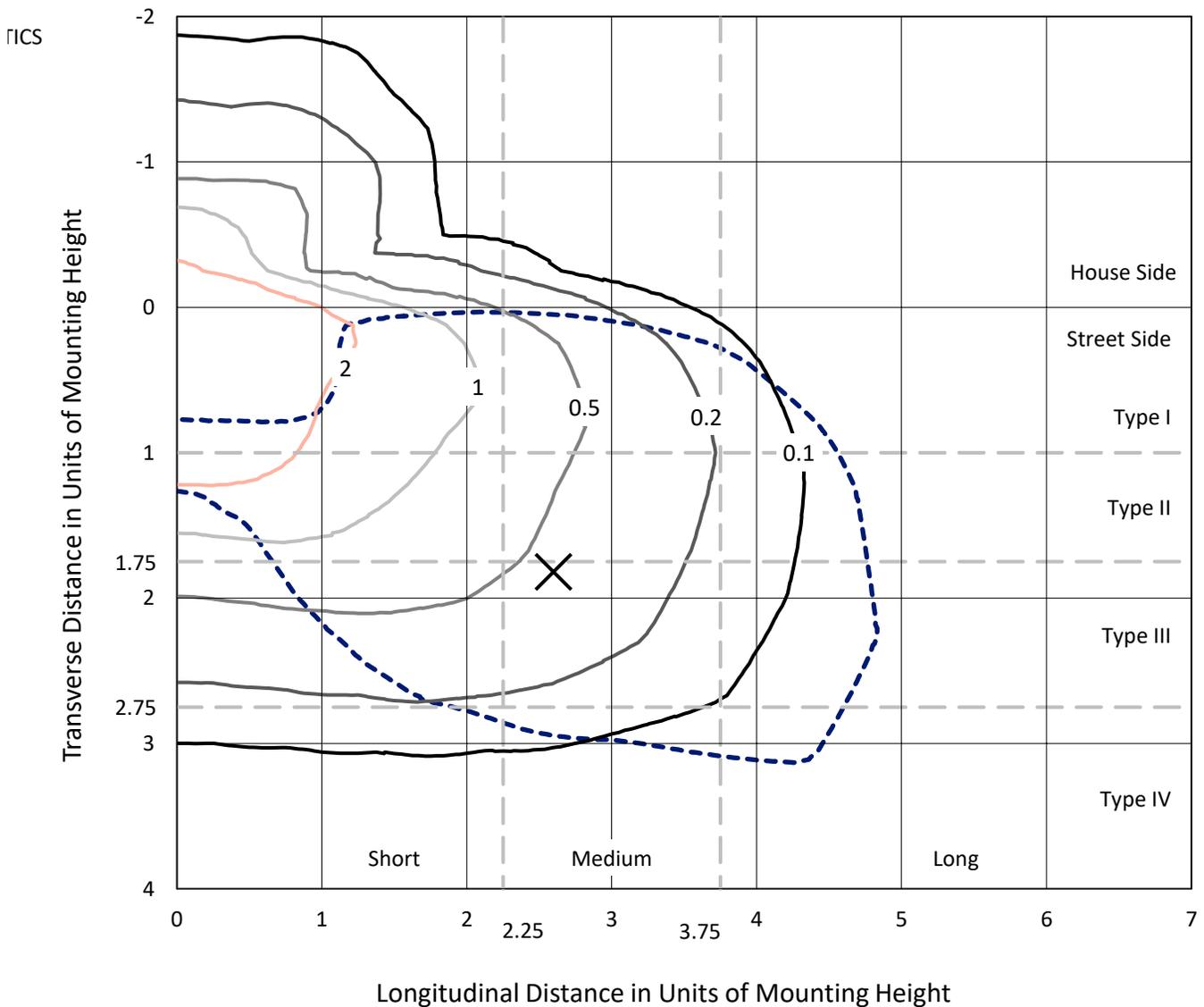
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

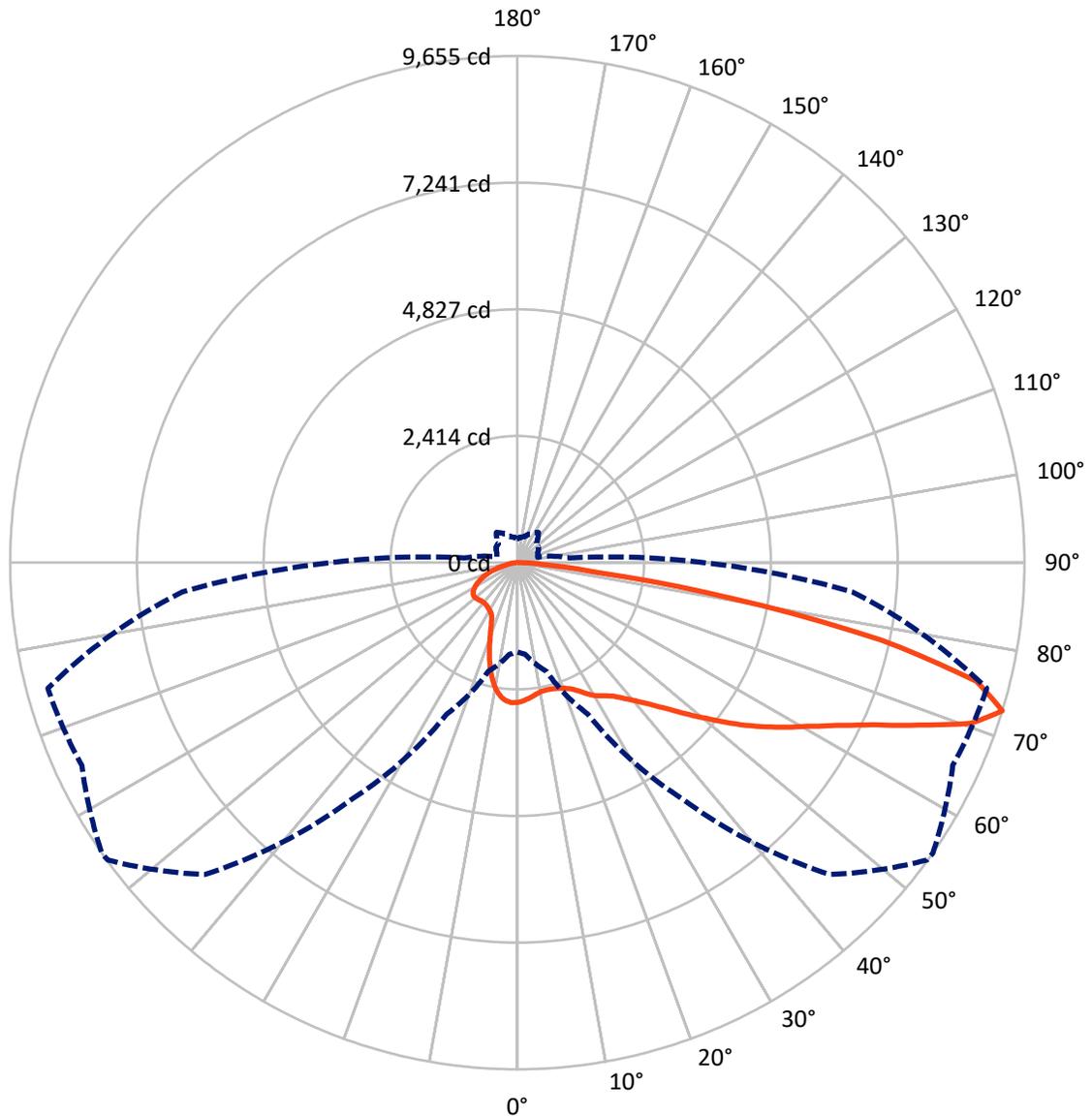
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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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	2805.3	0.0	2805.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12287.7	0.0	12287.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	15093.0	0.0	15093.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.6
10°-20°	641.3	4.2
20°-30°	1057.4	7.0
30°-40°	1564.1	10.4
40°-50°	2183.2	14.5
50°-60°	2842.6	18.8
60°-70°	3493.5	23.1
70°-80°	2738.5	18.1
80°-90°	331.4	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°	15093.0	100.0
0°-180°	15093.0	100.0



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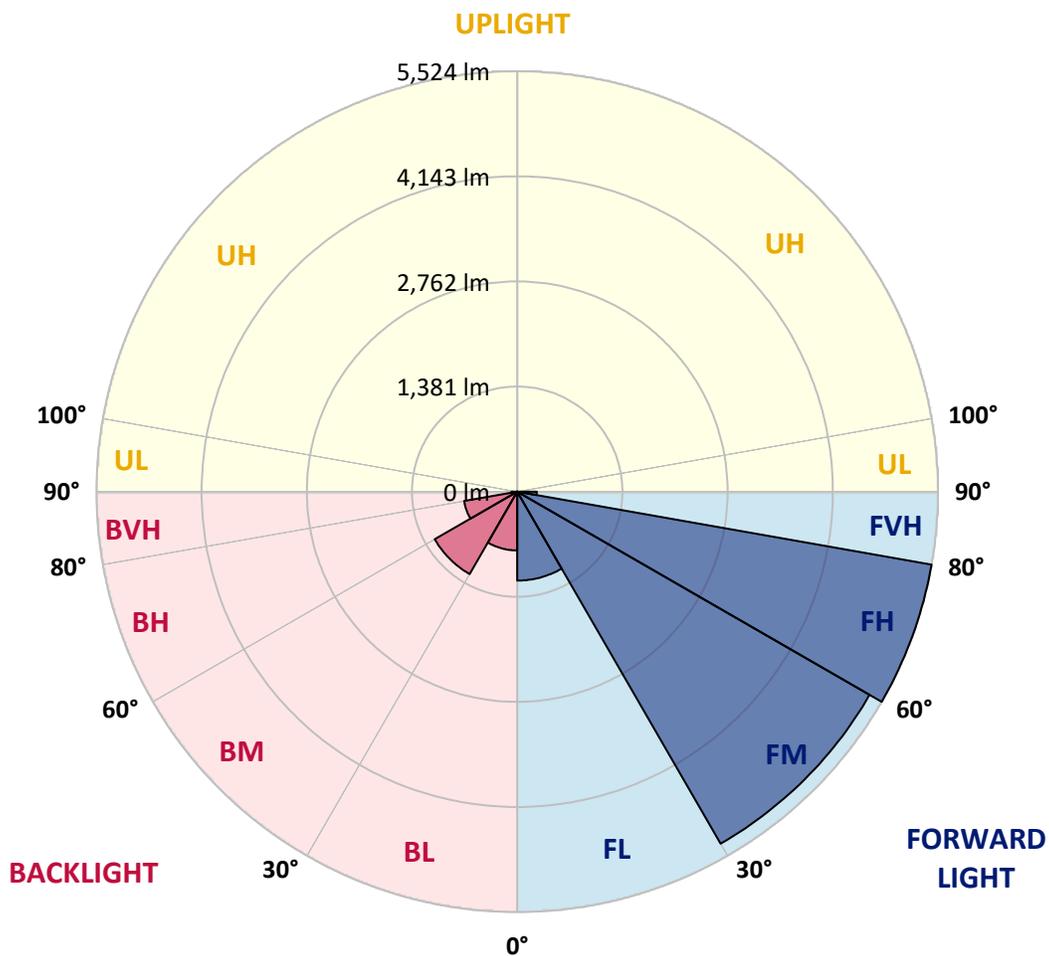
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.8	7.7			
FM	(30°-60°)	5340.2	35.4			
FH	(60°-80°)	5523.5	36.6			G3/7500
FVH	(80°-90°)	256.2	1.7			G3/500
BL	(0°-30°)	771.9	5.1	B2/1000		
BM	(30°-60°)	1249.8	8.3	B2/2500		
BH	(60°-80°)	708.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	75.2	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1
2.5°	2575.4	2569.3	2576.9	2587.7	2599.4	2615.2	2624.4	2628.4	2644.2	2650.4	2663.6
5°	2456.1	2453.1	2465.8	2484.2	2510.2	2546.9	2576.4	2582.0	2623.8	2653.4	2680.4
7.5°	2369.5	2369.5	2384.2	2406.2	2435.2	2484.7	2526.5	2534.1	2605.0	2668.7	2718.7
10°	2300.6	2303.2	2320.5	2346.5	2380.7	2433.2	2488.8	2497.4	2599.9	2704.4	2783.9
12.5°	2254.8	2260.9	2276.7	2300.1	2342.4	2406.2	2476.5	2488.2	2610.6	2755.4	2862.4
15°	2283.8	2294.0	2295.5	2305.2	2328.7	2398.0	2483.7	2495.9	2633.5	2807.4	2951.6
17.5°	2411.3	2414.8	2399.0	2378.6	2367.4	2411.8	2505.1	2517.8	2661.1	2858.9	3037.3
20°	2605.0	2602.9	2568.8	2513.7	2456.6	2463.8	2540.2	2553.5	2698.3	2904.2	3122.9
22.5°	2849.7	2842.5	2790.0	2688.6	2591.2	2550.4	2601.9	2613.1	2754.4	2969.0	3214.7
25°	3146.4	3130.6	3061.2	2925.1	2781.9	2676.9	2694.7	2705.4	2835.9	3041.4	3298.8
27.5°	3459.4	3443.6	3355.4	3190.7	3000.1	2836.4	2822.7	2831.8	2928.7	3094.9	3361.0
30°	3786.7	3769.8	3689.3	3504.7	3231.5	3001.6	2942.0	2945.5	2993.9	3123.9	3412.0
32.5°	4115.5	4099.7	4009.4	3795.3	3482.8	3179.0	3028.1	3023.5	3033.2	3154.0	3469.6
35°	4448.9	4455.0	4349.5	4112.4	3761.2	3376.3	3130.1	3120.4	3099.0	3215.7	3551.1
37.5°	4805.7	4801.6	4665.0	4417.3	4052.3	3590.4	3276.4	3274.8	3200.9	3332.4	3679.1
40°	5044.3	5046.8	4963.7	4729.2	4346.4	3827.4	3464.0	3460.4	3363.5	3507.3	3846.8
42.5°	5137.6	5154.4	5175.8	5027.0	4654.3	4102.2	3687.8	3682.7	3590.4	3758.1	4044.1
45°	5144.2	5177.9	5310.4	5291.5	4966.3	4416.7	3973.7	3959.5	3893.2	4091.5	4279.6
47.5°	5087.1	5121.8	5342.0	5449.1	5245.1	4748.6	4308.2	4297.0	4239.9	4508.5	4534.5
50°	4962.2	4995.4	5276.8	5526.0	5474.5	5067.7	4693.6	4664.0	4633.4	4990.3	4826.1
52.5°	4728.2	4791.9	5189.6	5544.4	5611.7	5351.2	5098.8	5079.5	5096.3	5498.5	5118.2
55°	4174.1	4245.5	4964.8	5529.1	5713.1	5589.2	5504.1	5503.1	5590.3	6031.7	5431.7
57.5°	3863.6	3914.1	4507.0	5503.1	5833.4	5825.8	5905.3	5915.0	6084.8	6612.4	5760.0
60°	3688.3	3741.3	4275.0	5406.7	6020.0	6131.7	6314.7	6334.0	6587.4	7255.2	6155.1
62.5°	3528.7	3586.8	4131.3	5210.5	6239.7	6569.0	6805.1	6822.4	7119.6	7915.9	6536.9
65°	3256.0	3321.7	3920.7	5081.5	6439.6	7139.5	7428.5	7440.3	7730.8	8608.2	6829.0
67.5°	2870.6	2930.7	3523.6	4796.5	6587.4	7832.3	8257.4	8264.1	8337.0	9097.1	6978.4
70°	2420.4	2443.4	2957.8	4208.2	6412.5	8480.2	9165.9	9167.4	8889.6	9410.1	6953.9
72.5°	1700.6	1754.7	2147.2	3185.6	5510.7	8401.2	9637.4	9654.8	9146.5	9252.0	6398.3
75°	1043.0	1100.1	1346.8	1930.5	3496.1	6607.3	8904.4	9024.7	8664.8	8249.3	5226.8
77.5°	697.4	718.8	878.9	1125.6	1583.9	3801.4	6845.9	7072.2	7198.1	6015.9	3342.6
80°	389.0	429.7	582.7	699.4	704.5	1510.5	4104.8	4157.8	4004.8	2395.5	1031.3
82.5°	206.0	228.4	389.0	410.9	384.4	505.7	1529.9	1531.4	1279.6	642.3	306.4
85°	159.6	178.4	266.6	250.8	196.3	224.3	504.7	532.2	435.4	263.0	99.9
87.5°	79.5	98.9	181.0	159.1	77.0	64.2	180.5	192.7	171.8	103.0	36.2
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°	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1	2662.1
2.5°	2668.7	2673.3	2678.9	2672.8	2670.7	2662.6	2648.8	2645.8	2638.6	2639.1	2643.2
5°	2692.2	2699.8	2696.7	2673.3	2645.3	2606.0	2565.2	2530.6	2507.6	2506.1	2504.6
7.5°	2737.0	2742.1	2718.2	2651.4	2572.9	2482.1	2396.5	2321.5	2276.2	2265.0	2262.4
10°	2807.4	2806.3	2740.6	2606.0	2449.5	2287.4	2149.7	2045.8	1985.1	1967.2	1962.7
12.5°	2885.9	2874.1	2748.2	2523.4	2275.2	2050.3	1876.0	1760.3	1697.1	1676.7	1671.6
15°	2966.9	2937.9	2729.4	2400.1	2061.0	1794.9	1611.9	1504.9	1470.7	1459.5	1457.5
17.5°	3042.4	2986.3	2675.3	2232.8	1816.9	1540.6	1397.8	1355.0	1363.2	1377.9	1378.4
20°	3116.3	3018.9	2588.7	2021.8	1559.4	1331.0	1282.6	1314.2	1353.0	1383.0	1387.1
22.5°	3189.2	3041.9	2477.0	1778.1	1329.0	1213.3	1247.4	1305.0	1349.4	1382.0	1387.6
25°	3250.4	3047.5	2323.1	1518.1	1168.9	1168.9	1230.6	1285.2	1329.0	1361.1	1366.7
27.5°	3272.8	3009.8	2105.9	1277.5	1088.4	1148.5	1207.2	1252.5	1289.7	1323.9	1330.0
30°	3281.5	2939.9	1855.1	1084.3	1055.2	1126.6	1175.6	1214.3	1249.5	1281.6	1287.2
32.5°	3283.0	2855.8	1589.0	974.7	1032.3	1103.7	1136.3	1170.5	1208.2	1220.9	1223.0
35°	3292.7	2756.4	1308.6	918.6	1010.9	1082.3	1108.3	1132.7	1071.6	1076.1	1080.2
37.5°	3320.7	2658.0	1074.1	887.0	997.1	1071.1	1102.1	1013.4	965.5	954.3	952.8
40°	3373.2	2553.0	900.3	861.5	992.0	1076.7	1062.9	946.2	863.6	801.9	792.7
42.5°	3446.1	2439.8	789.1	844.7	995.6	1103.7	1008.3	881.4	744.3	704.5	699.4
45°	3528.2	2321.0	729.0	833.0	1007.8	1124.6	997.1	795.3	688.7	658.6	656.1
47.5°	3607.7	2175.7	697.9	827.9	1024.7	1107.8	949.7	768.8	662.2	646.4	647.9
50°	3699.0	2044.7	679.0	822.3	1039.4	1097.1	896.2	755.0	652.0	671.4	691.8
52.5°	3776.0	1909.1	662.2	811.1	1045.1	1078.2	882.4	757.5	652.0	689.2	708.6
55°	3867.2	1806.7	642.8	787.6	1034.3	1024.7	872.7	772.8	659.7	636.2	638.2
57.5°	3985.0	1773.0	621.4	750.9	998.7	946.7	868.2	787.6	655.1	640.3	645.4
60°	4148.1	1808.7	612.8	703.0	943.1	885.5	868.7	780.0	623.0	597.5	598.0
62.5°	4303.6	1848.5	612.2	672.9	874.8	830.9	856.9	755.0	606.6	591.9	597.5
65°	4354.6	1808.2	587.8	639.3	797.8	765.7	835.5	728.5	594.4	572.0	571.0
67.5°	4286.2	1683.3	538.3	584.7	709.6	689.7	807.5	696.9	575.0	556.7	553.6
70°	4083.4	1404.4	477.2	512.8	609.2	604.1	763.1	660.2	549.0	533.2	520.0
72.5°	3537.4	1000.7	402.2	426.7	496.0	512.3	702.0	612.2	512.3	478.2	457.8
75°	2905.2	740.7	330.3	335.4	376.7	421.1	617.9	556.2	469.0	410.9	395.1
77.5°	1779.1	453.2	263.0	265.1	270.2	335.9	508.8	493.5	413.9	342.6	331.4
80°	576.1	247.2	190.1	199.8	184.5	246.2	393.6	420.1	355.3	286.5	274.3
82.5°	219.2	144.3	128.5	135.1	128.0	165.2	287.0	336.5	291.1	235.5	191.7
85°	106.0	81.6	76.0	85.1	79.0	84.6	183.5	247.8	220.7	153.4	142.7
87.5°	37.7	36.2	29.1	39.3	33.6	30.1	56.1	124.9	145.8	105.5	94.3
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)