

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: P1209328

Luminaire Tested: UPW-SA2-110-740-U-T3R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209328  
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-SA2-110-740-U-T3R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 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: 15094 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

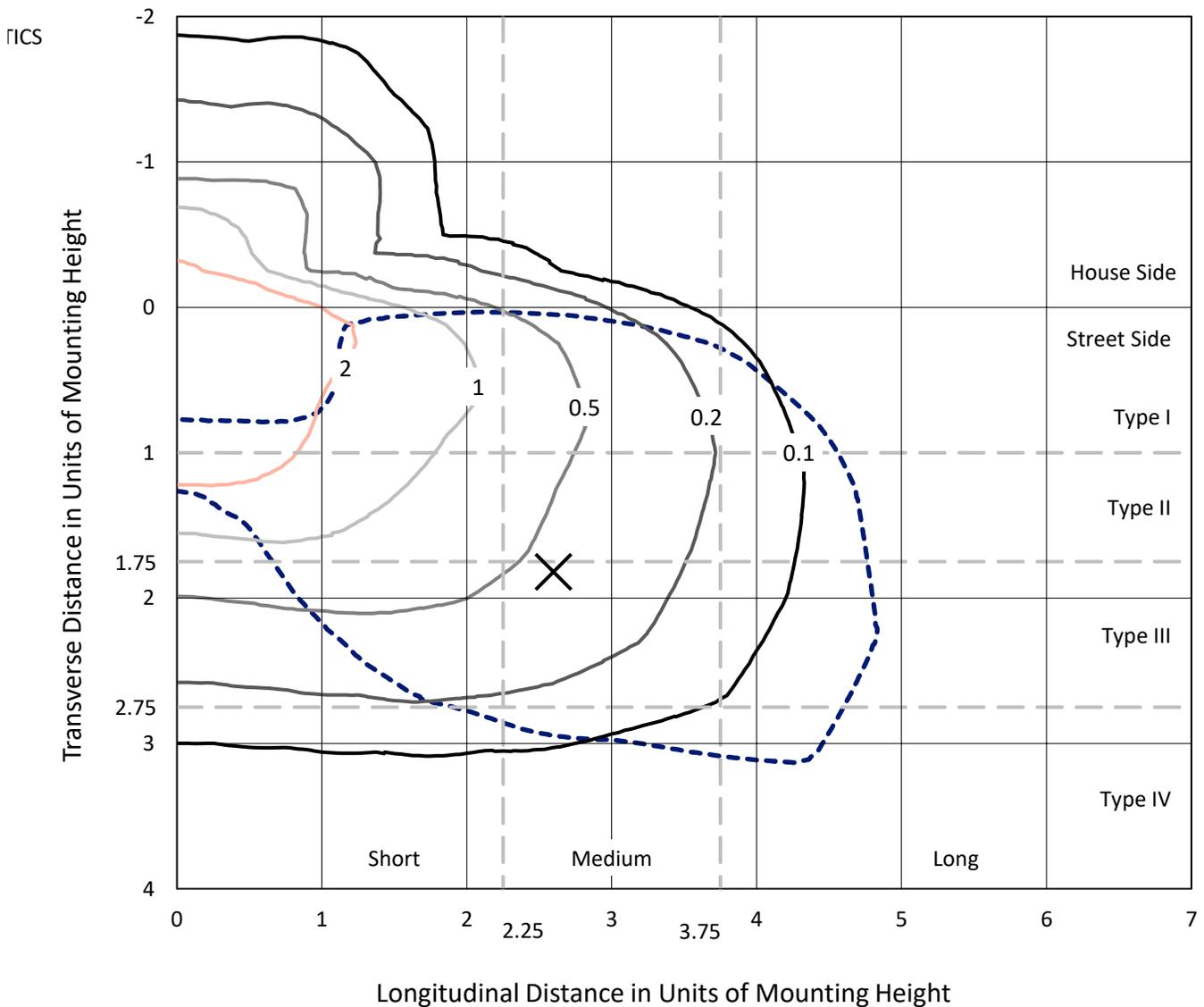
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

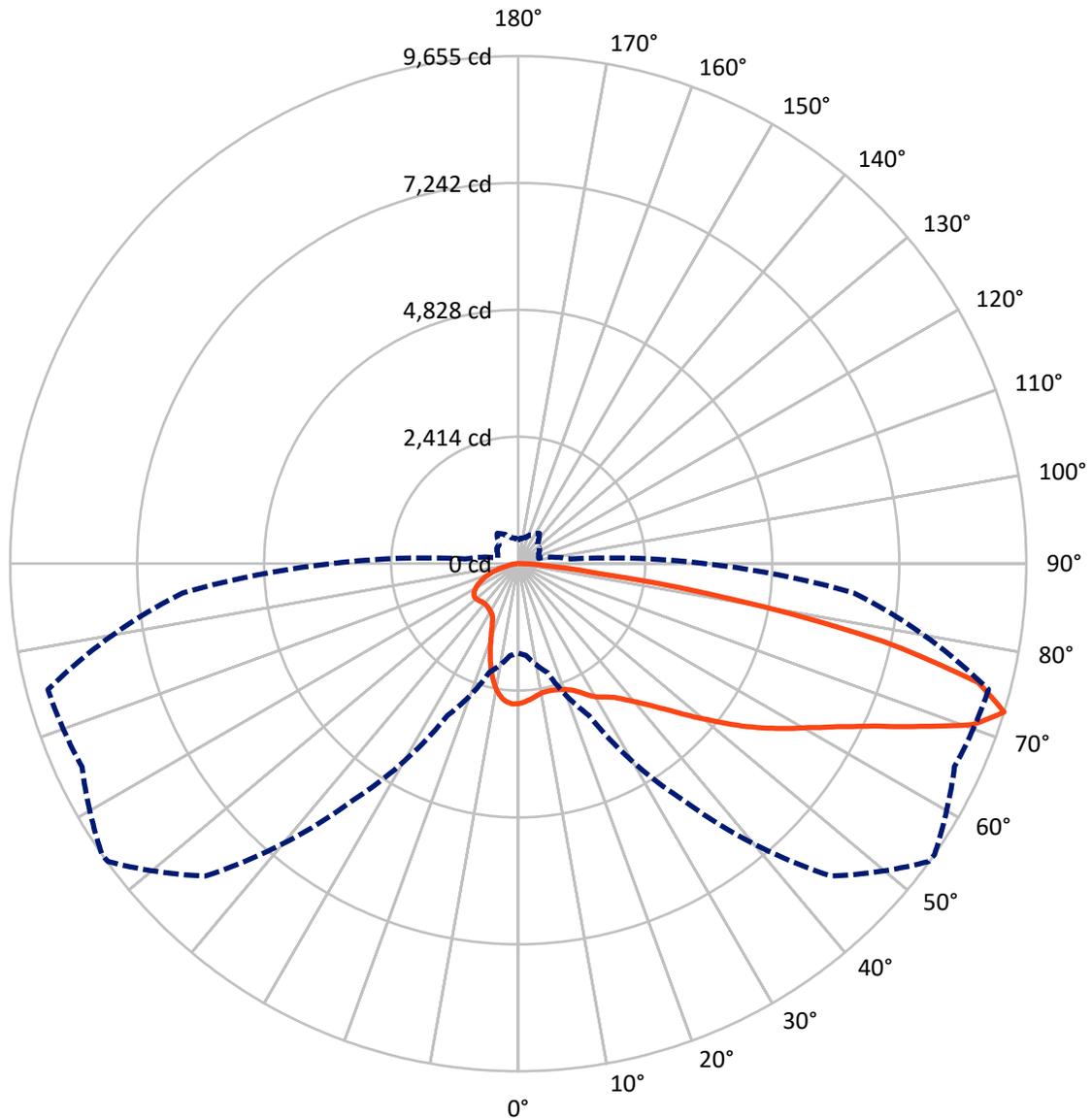
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2805.5	0.0	2805.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12288.5	0.0	12288.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15094.0	0.0	15094.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.9	1.6
10°-20°	641.4	4.2
20°-30°	1057.5	7.0
30°-40°	1564.3	10.4
40°-50°	2183.4	14.5
50°-60°	2842.8	18.8
60°-70°	3493.7	23.1
70°-80°	2738.7	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°	15094.0	100.0
0°-180°	15094.0	100.0



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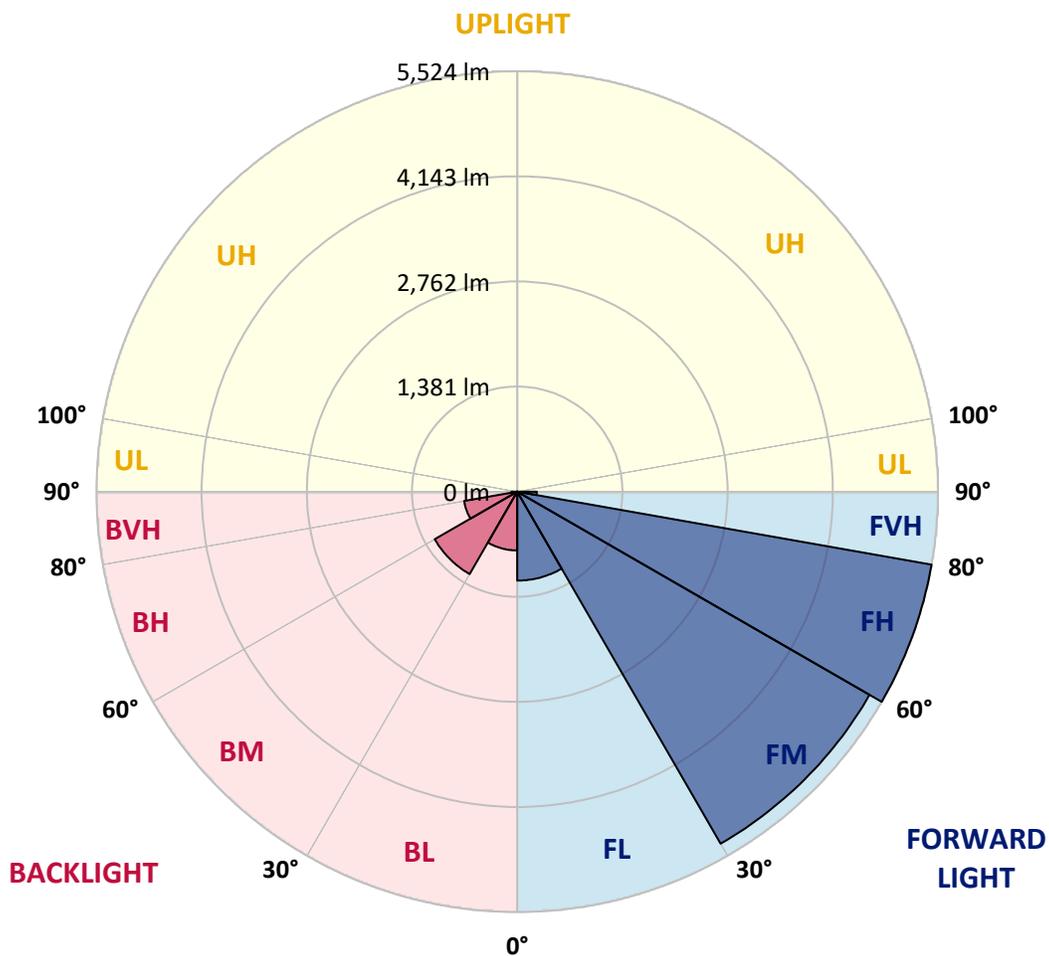
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.8	7.7			
FM (30°-60°)	5340.6	35.4			
FH (60°-80°)	5523.9	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°)	1249.9	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°	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3
2.5°	2575.6	2569.5	2577.1	2587.8	2599.5	2615.4	2624.5	2628.6	2644.4	2650.5	2663.8
5°	2456.3	2453.2	2466.0	2484.3	2510.3	2547.0	2576.6	2582.2	2624.0	2653.6	2680.6
7.5°	2369.6	2369.6	2384.4	2406.3	2435.4	2484.8	2526.6	2534.3	2605.2	2668.9	2718.8
10°	2300.8	2303.3	2320.7	2346.7	2380.8	2433.3	2488.9	2497.6	2600.1	2704.6	2784.1
12.5°	2254.9	2261.0	2276.8	2300.3	2342.6	2406.3	2476.7	2488.4	2610.8	2755.6	2862.6
15°	2284.0	2294.2	2295.7	2305.4	2328.8	2398.2	2483.8	2496.1	2633.7	2807.6	2951.8
17.5°	2411.4	2415.0	2399.2	2378.8	2367.6	2411.9	2505.2	2518.0	2661.2	2859.0	3037.5
20°	2605.2	2603.1	2569.0	2513.9	2456.8	2463.9	2540.4	2553.7	2698.5	2904.4	3123.1
22.5°	2849.9	2842.7	2790.2	2688.8	2591.4	2550.6	2602.1	2613.3	2754.5	2969.2	3214.9
25°	3146.6	3130.8	3061.4	2925.3	2782.1	2677.0	2694.9	2705.6	2836.1	3041.6	3299.0
27.5°	3459.6	3443.8	3355.6	3190.9	3000.3	2836.6	2822.8	2832.0	2928.9	3095.1	3361.2
30°	3786.9	3770.1	3689.5	3505.0	3231.7	3001.8	2942.1	2945.7	2994.1	3124.1	3412.2
32.5°	4115.7	4099.9	4009.7	3795.6	3483.1	3179.2	3028.3	3023.7	3033.4	3154.2	3469.8
35°	4449.2	4455.3	4349.7	4112.7	3761.4	3376.5	3130.3	3120.6	3099.2	3215.9	3551.4
37.5°	4806.0	4802.0	4665.3	4417.6	4052.5	3590.6	3276.6	3275.1	3201.1	3332.7	3679.3
40°	5044.6	5047.2	4964.1	4729.6	4346.7	3827.7	3464.2	3460.6	3363.8	3507.5	3847.1
42.5°	5137.9	5154.7	5176.2	5027.3	4654.6	4102.5	3688.0	3682.9	3590.6	3758.4	4044.4
45°	5144.5	5178.2	5310.7	5291.9	4966.6	4417.0	3974.0	3959.7	3893.5	4091.8	4279.9
47.5°	5087.4	5122.1	5342.4	5449.4	5245.5	4748.9	4308.5	4297.2	4240.1	4508.8	4534.8
50°	4962.5	4995.7	5277.1	5526.4	5474.9	5068.1	4693.9	4664.3	4633.7	4990.6	4826.4
52.5°	4728.5	4792.3	5189.9	5544.8	5612.0	5351.5	5099.2	5079.8	5096.6	5498.9	5118.5
55°	4174.4	4245.7	4965.1	5529.5	5713.5	5589.6	5504.5	5503.5	5590.6	6032.1	5432.1
57.5°	3863.9	3914.4	4507.3	5503.5	5833.8	5826.2	5905.7	5915.4	6085.2	6612.8	5760.4
60°	3688.5	3741.5	4275.3	5407.1	6020.4	6132.1	6315.1	6334.5	6587.8	7255.7	6155.5
62.5°	3528.9	3587.1	4131.5	5210.8	6240.1	6569.5	6805.5	6822.9	7120.1	7916.4	6537.4
65°	3256.2	3322.0	3921.0	5081.8	6440.0	7140.0	7429.0	7440.8	7731.4	8608.7	6829.5
67.5°	2870.8	2930.9	3523.8	4796.9	6587.8	7832.8	8258.0	8264.6	8337.5	9097.7	6978.9
70°	2420.6	2443.5	2957.9	4208.5	6413.0	8480.8	9166.5	9168.0	8890.2	9410.7	6954.4
72.5°	1700.7	1754.8	2147.3	3185.8	5511.1	8401.8	9638.1	9655.4	9147.1	9252.6	6398.7
75°	1043.1	1100.2	1346.9	1930.7	3496.3	6607.7	8904.9	9025.3	8665.3	8249.8	5227.1
77.5°	697.4	718.8	878.9	1125.7	1584.0	3801.7	6846.3	7072.7	7198.6	6016.3	3342.9
80°	389.0	429.8	582.7	699.5	704.6	1510.6	4105.0	4158.1	4005.1	2395.6	1031.4
82.5°	206.0	228.4	389.0	410.9	384.4	505.7	1530.0	1531.5	1279.6	642.4	306.4
85°	159.6	178.4	266.6	250.8	196.3	224.3	504.7	532.2	435.4	263.1	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°	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3
2.5°	2668.9	2673.5	2679.1	2673.0	2670.9	2662.8	2649.0	2645.9	2638.8	2639.3	2643.4
5°	2692.3	2700.0	2696.9	2673.5	2645.4	2606.2	2565.4	2530.7	2507.8	2506.3	2504.7
7.5°	2737.2	2742.3	2718.3	2651.6	2573.0	2482.3	2396.6	2321.7	2276.3	2265.1	2262.6
10°	2807.6	2806.5	2740.8	2606.2	2449.7	2287.5	2149.9	2045.9	1985.2	1967.4	1962.8
12.5°	2886.1	2874.3	2748.4	2523.6	2275.3	2050.5	1876.1	1760.4	1697.2	1676.8	1671.7
15°	2967.1	2938.1	2729.6	2400.2	2061.2	1795.1	1612.0	1505.0	1470.8	1459.6	1457.6
17.5°	3042.6	2986.5	2675.5	2233.0	1817.0	1540.7	1397.9	1355.1	1363.2	1378.0	1378.5
20°	3116.5	3019.1	2588.8	2021.9	1559.5	1331.1	1282.7	1314.3	1353.1	1383.1	1387.2
22.5°	3189.4	3042.1	2477.2	1778.2	1329.1	1213.4	1247.5	1305.1	1349.5	1382.1	1387.7
25°	3250.6	3047.7	2323.2	1518.2	1169.0	1169.0	1230.7	1285.2	1329.1	1361.2	1366.8
27.5°	3273.0	3010.0	2106.0	1277.6	1088.5	1148.6	1207.2	1252.6	1289.8	1324.0	1330.1
30°	3281.7	2940.1	1855.2	1084.4	1055.3	1126.7	1175.6	1214.4	1249.6	1281.7	1287.3
32.5°	3283.2	2856.0	1589.1	974.8	1032.4	1103.8	1136.4	1170.5	1208.3	1221.0	1223.0
35°	3292.9	2756.6	1308.7	918.7	1011.0	1082.3	1108.3	1132.8	1071.6	1076.2	1080.3
37.5°	3320.9	2658.2	1074.2	887.1	997.2	1071.1	1102.2	1013.5	965.6	954.4	952.8
40°	3373.4	2553.2	900.3	861.6	992.1	1076.7	1063.0	946.2	863.6	801.9	792.8
42.5°	3446.4	2440.0	789.2	844.8	995.7	1103.8	1008.4	881.5	744.3	704.6	699.5
45°	3528.4	2321.2	729.0	833.0	1007.9	1124.7	997.2	795.3	688.8	658.7	656.1
47.5°	3608.0	2175.9	697.9	827.9	1024.7	1107.8	949.8	768.8	662.3	646.4	648.0
50°	3699.2	2044.9	679.1	822.3	1039.5	1097.1	896.3	755.0	652.1	671.4	691.8
52.5°	3776.2	1909.3	662.3	811.1	1045.1	1078.3	882.5	757.6	652.1	689.3	708.6
55°	3867.5	1806.8	642.9	787.7	1034.4	1024.7	872.8	772.9	659.7	636.2	638.3
57.5°	3985.2	1773.1	621.5	751.0	998.7	946.7	868.2	787.7	655.1	640.3	645.4
60°	4148.4	1808.8	612.8	703.0	943.2	885.5	868.7	780.0	623.0	597.5	598.0
62.5°	4303.9	1848.6	612.3	673.0	874.8	831.0	857.0	755.0	606.7	591.9	597.5
65°	4354.8	1808.3	587.8	639.3	797.9	765.7	835.6	728.5	594.4	572.0	571.0
67.5°	4286.5	1683.4	538.4	584.8	709.7	689.8	807.5	696.9	575.1	556.7	553.7
70°	4083.6	1404.5	477.2	512.9	609.2	604.1	763.2	660.2	549.1	533.3	520.0
72.5°	3537.6	1000.8	402.2	426.7	496.1	512.4	702.0	612.3	512.4	478.2	457.8
75°	2905.4	740.8	330.4	335.5	376.8	421.1	617.9	556.2	469.0	410.9	395.1
77.5°	1779.3	453.2	263.1	265.1	270.2	336.0	508.8	493.5	414.0	342.6	331.4
80°	576.1	247.3	190.2	199.8	184.6	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	220.8	153.5	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)