

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: P1209230

Luminaire Tested: UPW-SA2-110-727-U-SL2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-SL2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11841 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

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

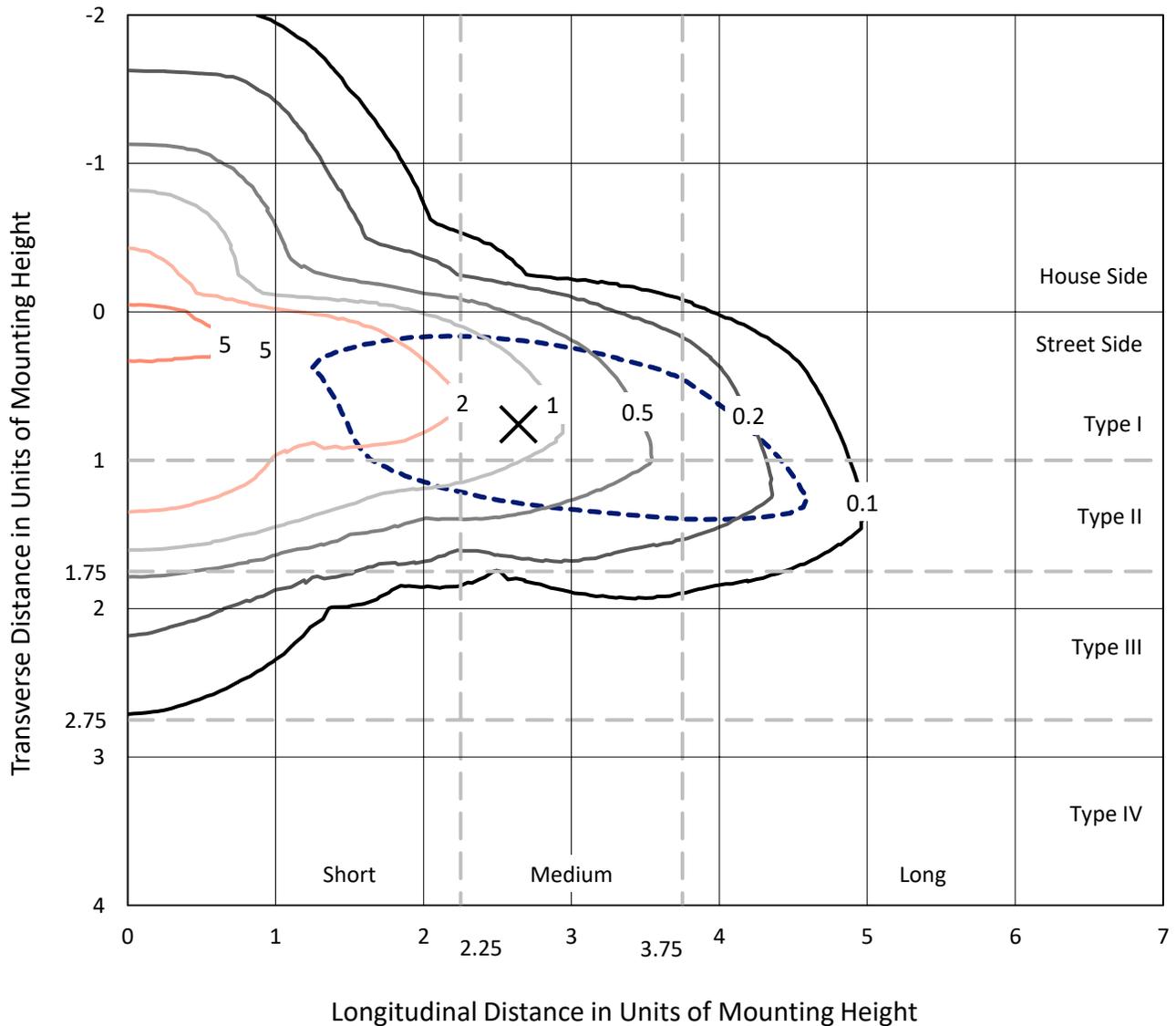


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### Iso-Footcandle Lines of Horizontal Illumination

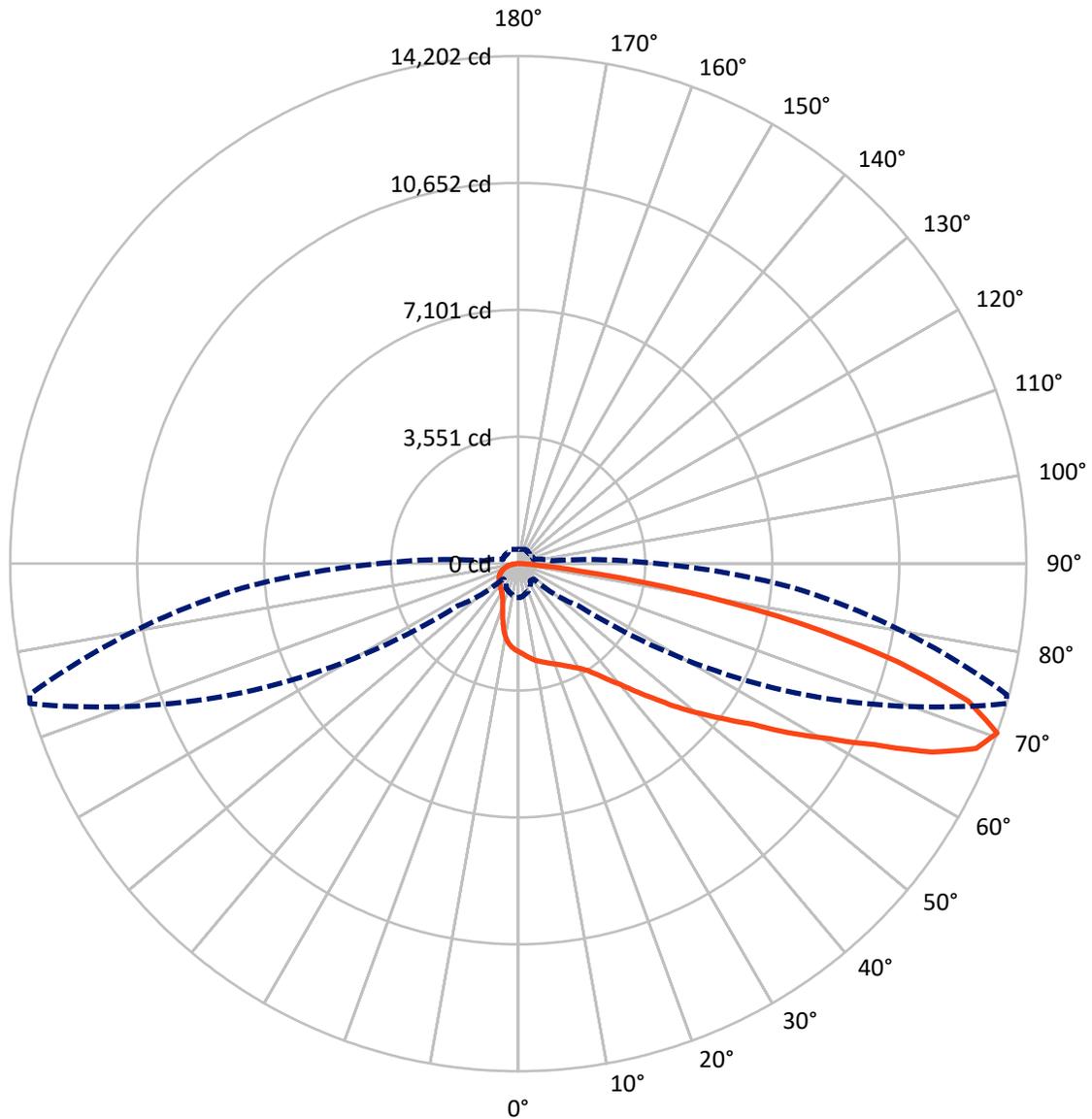
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2167.3	0.0	2167.3
	% Fixture	18.3	0.0	18.3
<b>Street Side</b>	Lumens	9673.7	0.0	9673.7
	% Fixture	81.7	0.0	81.7
<b>Total</b>	Lumens	11841.0	0.0	11841.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.6	1.8
10°-20°	569.7	4.8
20°-30°	902.1	7.6
30°-40°	1344.2	11.4
40°-50°	1853.5	15.7
50°-60°	2485.8	21.0
60°-70°	2579.8	21.8
70°-80°	1632.4	13.8
80°-90°	256.9	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°	11841.0	100.0
0°-180°	11841.0	100.0



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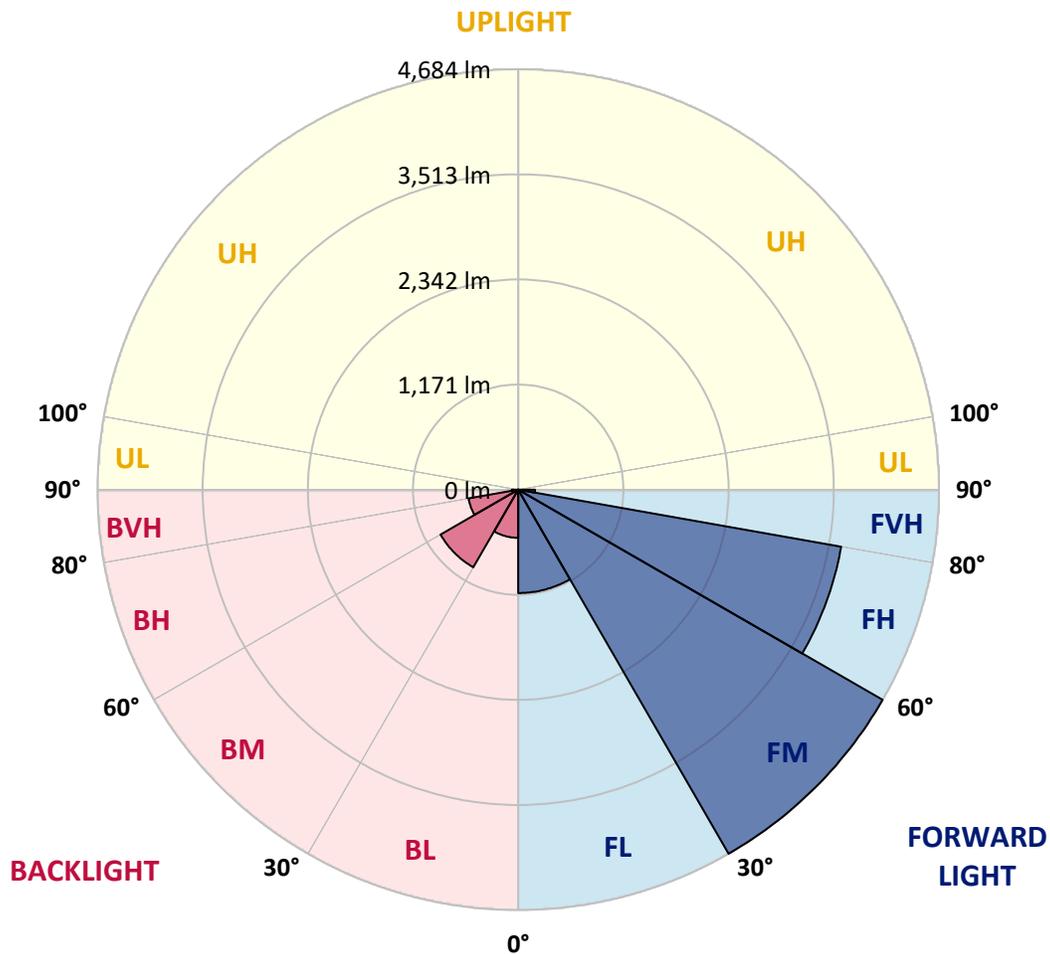
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.9	9.7			
FM (30°-60°)	4684.1	39.6			
FH (60°-80°)	3650.9	30.8			G2/5000
FVH (80°-90°)	186.7	1.6			G2/225
BL (0°-30°)	536.4	4.5	B2/1000		
BM (30°-60°)	999.4	8.4	B1/1000		
BH (60°-80°)	561.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	70.2	0.6			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7
2.5°	2636.6	2632.7	2623.4	2623.4	2619.4	2610.1	2583.6	2555.8	2529.3	2526.7	2492.2
5°	2745.3	2738.7	2737.3	2737.3	2732.0	2722.8	2687.0	2648.6	2610.1	2602.2	2539.9
7.5°	2797.0	2791.7	2793.0	2799.6	2810.2	2802.3	2770.5	2737.3	2685.7	2679.0	2586.3
10°	2769.1	2773.1	2789.0	2826.1	2852.6	2867.2	2840.7	2810.2	2757.2	2749.3	2623.4
12.5°	2592.9	2604.8	2655.2	2750.6	2851.3	2906.9	2905.6	2873.8	2810.2	2803.6	2652.5
15°	2326.6	2312.0	2404.8	2557.1	2740.0	2897.7	2949.3	2934.8	2871.2	2861.9	2687.0
17.5°	2195.4	2196.8	2237.8	2331.9	2533.3	2822.1	2973.2	2995.7	2936.1	2924.2	2725.4
20°	2248.4	2247.1	2251.1	2282.9	2379.6	2668.4	2974.5	3062.0	2999.7	2991.7	2759.9
22.5°	2399.5	2394.2	2382.3	2355.8	2358.4	2532.0	2956.0	3134.8	3080.5	3064.6	2783.7
25°	2610.1	2596.9	2558.5	2498.8	2435.3	2490.9	2908.3	3219.6	3173.2	3156.0	2808.9
27.5°	2850.0	2847.3	2806.2	2692.3	2571.7	2542.6	2853.9	3312.4	3283.2	3259.4	2836.7
30°	3097.7	3083.1	3044.7	2922.8	2770.5	2655.2	2838.0	3414.4	3399.8	3369.3	2859.2
32.5°	3232.9	3226.2	3201.1	3126.9	2994.4	2818.2	2884.4	3519.1	3566.8	3544.2	2908.3
35°	3340.2	3328.3	3301.8	3271.3	3203.7	3032.8	2991.7	3644.9	3815.8	3776.1	3012.9
37.5°	3442.2	3429.0	3410.4	3381.3	3337.5	3238.2	3148.1	3817.2	4131.2	4103.4	3171.9
40°	3556.2	3541.6	3517.7	3497.9	3436.9	3406.4	3295.1	3981.5	4469.0	4455.8	3362.7
42.5°	3642.3	3626.4	3614.5	3601.2	3535.0	3478.0	3410.4	4137.8	4924.8	4891.7	3615.8
45°	3705.9	3696.6	3696.6	3680.7	3637.0	3480.6	3491.2	4347.1	5415.1	5404.5	3965.6
47.5°	3774.8	3762.8	3769.5	3754.9	3741.6	3483.3	3590.6	4626.7	6004.7	5995.4	4356.4
50°	3856.9	3845.0	3871.5	3850.3	3855.6	3562.8	3732.4	4976.5	6587.6	6565.1	4772.5
52.5°	3867.5	3864.9	3931.1	3978.8	4017.2	3744.3	3972.2	5393.9	7224.9	7224.9	5257.4
55°	3652.9	3647.6	3776.1	3978.8	4194.8	4092.8	4417.4	6047.1	7929.8	7948.4	5689.3
57.5°	2966.6	2991.7	3209.0	3607.8	4185.5	4589.6	5075.9	6842.0	8923.5	8862.6	6113.3
60°	1886.7	1923.8	2097.4	2645.9	3560.1	4673.1	5784.7	7851.6	9931.8	9815.2	6673.8
62.5°	1246.8	1215.0	1217.6	1476.0	2290.8	3927.1	5923.8	9048.1	11148.1	11063.3	7171.9
65°	1109.0	1086.5	973.8	906.3	1113.0	2452.5	5037.4	9910.6	12711.5	12474.4	7553.5
67.5°	1052.0	1029.5	924.8	820.1	700.9	1253.4	3580.0	9751.6	13803.3	13653.6	7835.7
70°	952.6	939.4	854.6	773.8	585.6	605.5	2065.6	8560.5	14202.1	14130.5	7707.2
72.5°	828.1	812.2	755.2	699.6	514.1	446.5	991.1	6786.4	13154.1	13148.8	7162.7
75°	678.4	665.1	618.7	600.2	434.6	365.7	563.1	4765.8	10958.6	10900.3	6366.4
77.5°	555.2	536.6	504.8	490.2	360.4	294.1	396.2	3326.9	8087.5	7935.1	4455.8
80°	402.8	390.9	360.4	394.8	284.9	227.9	294.1	2069.6	4752.6	4442.5	1669.4
82.5°	245.1	221.3	249.1	302.1	210.7	163.0	216.0	1154.0	1703.9	1497.2	498.2
85°	113.9	116.6	145.7	193.4	125.9	95.4	135.1	504.8	494.2	473.0	209.3
87.5°	18.5	19.9	55.6	84.8	53.0	31.8	54.3	111.3	186.8	192.1	90.1
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°	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7
2.5°	2471.0	2449.8	2411.4	2369.0	2321.3	2277.6	2259.0	2198.1	2183.5	2179.5	2149.1
5°	2496.2	2449.8	2349.1	2229.9	2090.8	1964.9	1825.8	1714.5	1652.2	1646.9	1654.9
7.5°	2521.4	2448.5	2264.3	2023.2	1776.8	1533.0	1384.6	1297.1	1236.2	1221.6	1225.6
10°	2534.6	2430.0	2134.5	1763.5	1423.0	1245.4	1160.7	1130.2	1120.9	1113.0	1113.0
12.5°	2537.3	2388.9	1962.2	1483.9	1215.0	1128.9	1105.0	1097.1	1095.7	1094.4	1091.8
15°	2539.9	2337.2	1742.3	1268.0	1120.9	1093.1	1083.8	1082.5	1085.1	1083.8	1083.8
17.5°	2537.3	2267.0	1529.0	1143.4	1086.5	1075.9	1070.6	1069.2	1073.2	1071.9	1070.6
20°	2528.0	2176.9	1321.0	1079.8	1062.6	1060.0	1053.3	1048.0	1053.3	1054.7	1053.3
22.5°	2492.2	2044.4	1171.3	1040.1	1040.1	1040.1	1032.1	1025.5	1034.8	1037.4	1038.8
25°	2436.6	1885.4	1060.0	1007.0	1013.6	1010.9	1010.9	1009.6	1018.9	1021.5	1022.9
27.5°	2378.3	1719.8	981.8	971.2	981.8	988.4	1000.3	1001.7	1001.7	999.0	997.7
30°	2304.1	1539.6	931.4	939.4	954.0	977.8	999.0	996.4	987.1	977.8	979.1
32.5°	2244.5	1393.8	882.4	911.6	938.1	972.5	991.1	995.0	993.7	977.8	977.8
35°	2221.9	1277.2	849.3	887.7	927.5	959.3	967.2	984.4	981.8	961.9	960.6
37.5°	2236.5	1183.2	820.1	862.5	911.6	927.5	944.7	948.7	915.5	894.3	889.0
40°	2268.3	1114.3	793.6	830.7	885.1	898.3	922.2	886.4	858.6	841.3	844.0
42.5°	2357.1	1085.1	769.8	795.0	845.3	875.8	866.5	855.9	817.5	789.7	787.0
45°	2497.5	1083.8	748.6	757.9	800.3	832.1	830.7	818.8	777.7	748.6	744.6
47.5°	2689.6	1110.3	726.1	723.4	757.9	777.7	796.3	777.7	735.3	702.2	698.2
50°	2918.9	1179.2	704.9	687.6	711.5	742.0	751.2	738.0	698.2	666.4	662.5
52.5°	3194.4	1274.6	686.3	655.8	662.5	704.9	726.1	714.1	669.1	634.6	629.3
55°	3462.1	1364.7	661.1	622.7	612.1	670.4	703.5	702.2	636.0	600.2	597.6
57.5°	3736.3	1449.5	633.3	594.9	577.7	633.3	679.7	685.0	601.5	563.1	563.1
60°	4014.6	1509.1	598.9	565.8	556.5	592.3	643.9	645.2	571.1	541.9	544.6
62.5°	4242.5	1473.3	564.4	537.9	531.3	552.5	604.2	616.1	568.4	536.6	539.3
65°	4339.2	1354.1	526.0	511.4	500.8	508.8	556.5	571.1	520.7	484.9	488.9
67.5°	4276.9	1180.5	487.6	481.0	466.4	463.7	494.2	503.5	466.4	443.9	441.2
70°	3907.3	942.0	441.2	441.2	428.0	416.0	431.9	439.9	410.7	397.5	400.1
72.5°	3381.3	765.8	396.2	401.5	382.9	367.0	376.3	380.3	363.0	356.4	353.8
75°	2925.5	639.9	351.1	359.1	339.2	314.0	324.6	324.6	310.0	308.7	307.4
77.5°	2133.2	481.0	302.1	311.4	295.5	263.7	266.3	267.6	262.3	262.3	263.7
80°	912.9	294.1	246.4	261.0	245.1	206.7	214.6	214.6	227.9	261.0	255.7
82.5°	303.4	174.9	186.8	205.4	188.1	153.7	163.0	174.9	225.2	216.0	205.4
85°	129.8	96.7	119.2	129.8	120.6	92.7	106.0	182.8	166.9	161.6	163.0
87.5°	43.7	41.1	50.3	59.6	42.4	29.1	54.3	111.3	108.6	82.1	79.5
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)