

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: P1209068

Luminaire Tested: UPW-SA2-090-740-U-SL2

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-SL2
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 11440 lumens
Efficiency: N/A
Efficacy: 133.0 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): 86
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

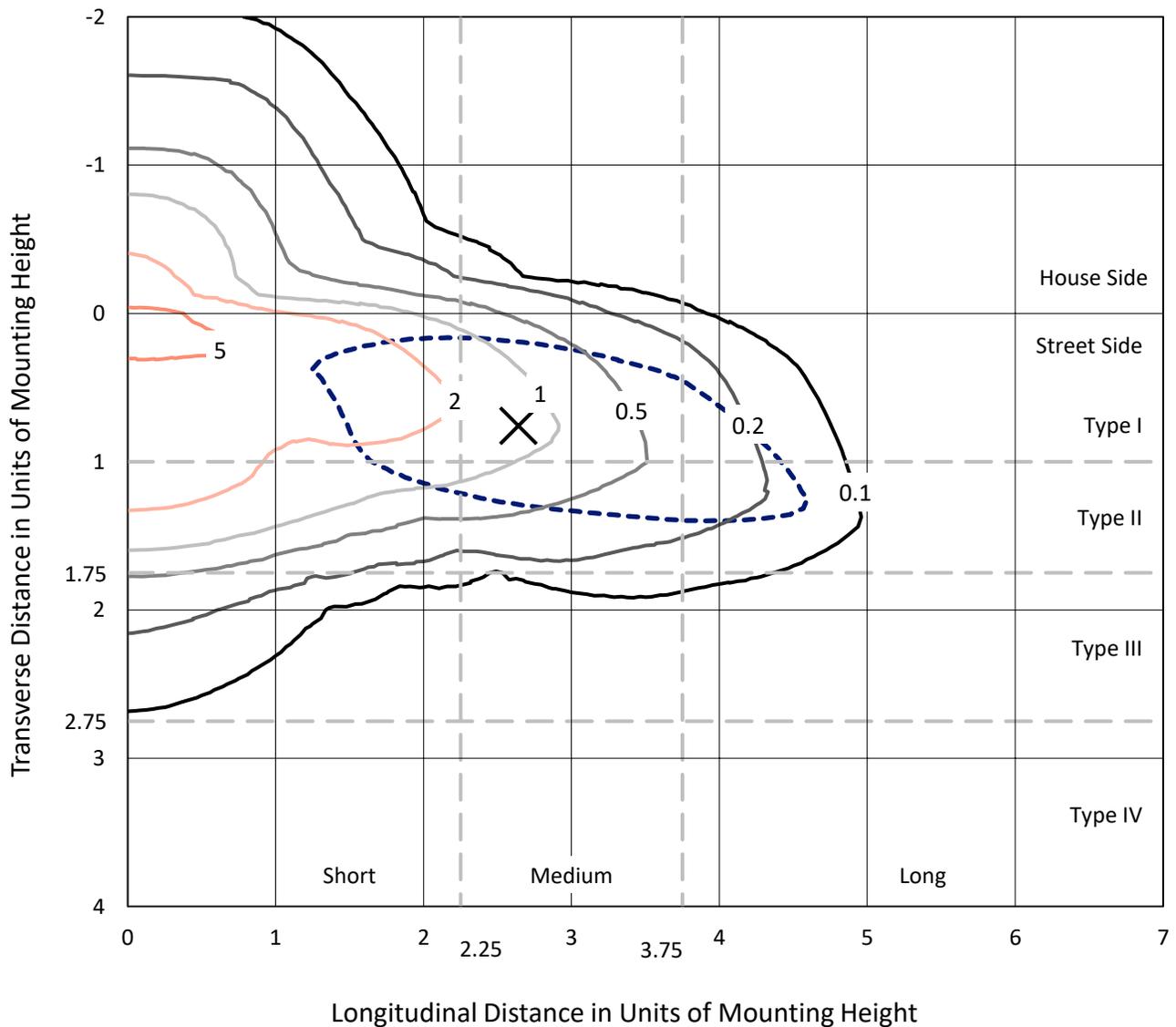


REPORT NUMBER: P1209068

CATALOG NUMBER: UPW-SA2-090-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

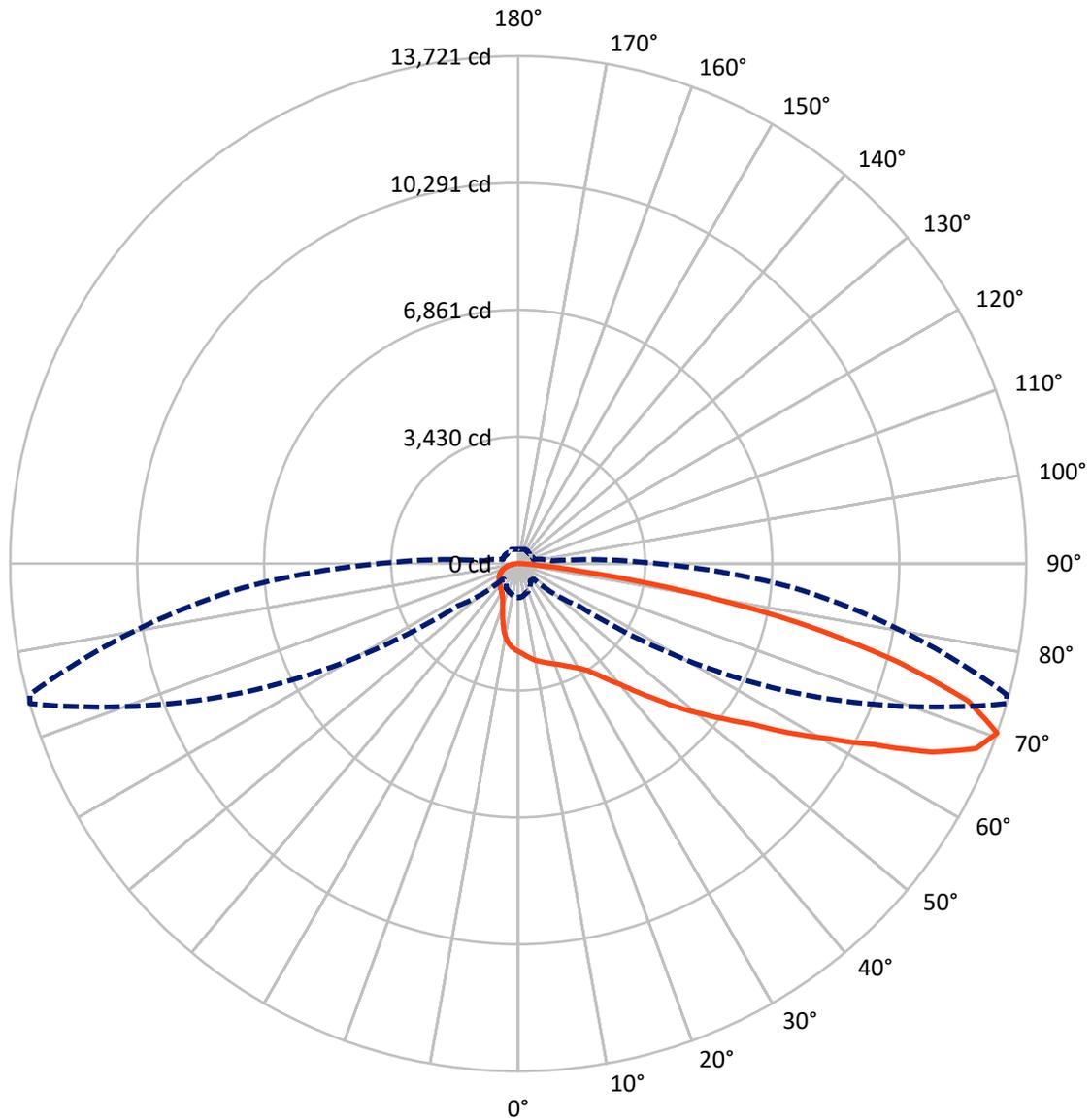
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P1209068
CATALOG NUMBER: UPW-SA2-090-740-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209068

CATALOG NUMBER: UPW-SA2-090-740-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2093.9	0.0	2093.9
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	9346.1	0.0	9346.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	11440.0	0.0	11440.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	1.8
10°-20°	550.4	4.8
20°-30°	871.5	7.6
30°-40°	1298.6	11.4
40°-50°	1790.7	15.7
50°-60°	2401.6	21.0
60°-70°	2492.4	21.8
70°-80°	1577.2	13.8
80°-90°	248.3	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°	11440.0	100.0
0°-180°	11440.0	100.0



REPORT NUMBER: P1209068

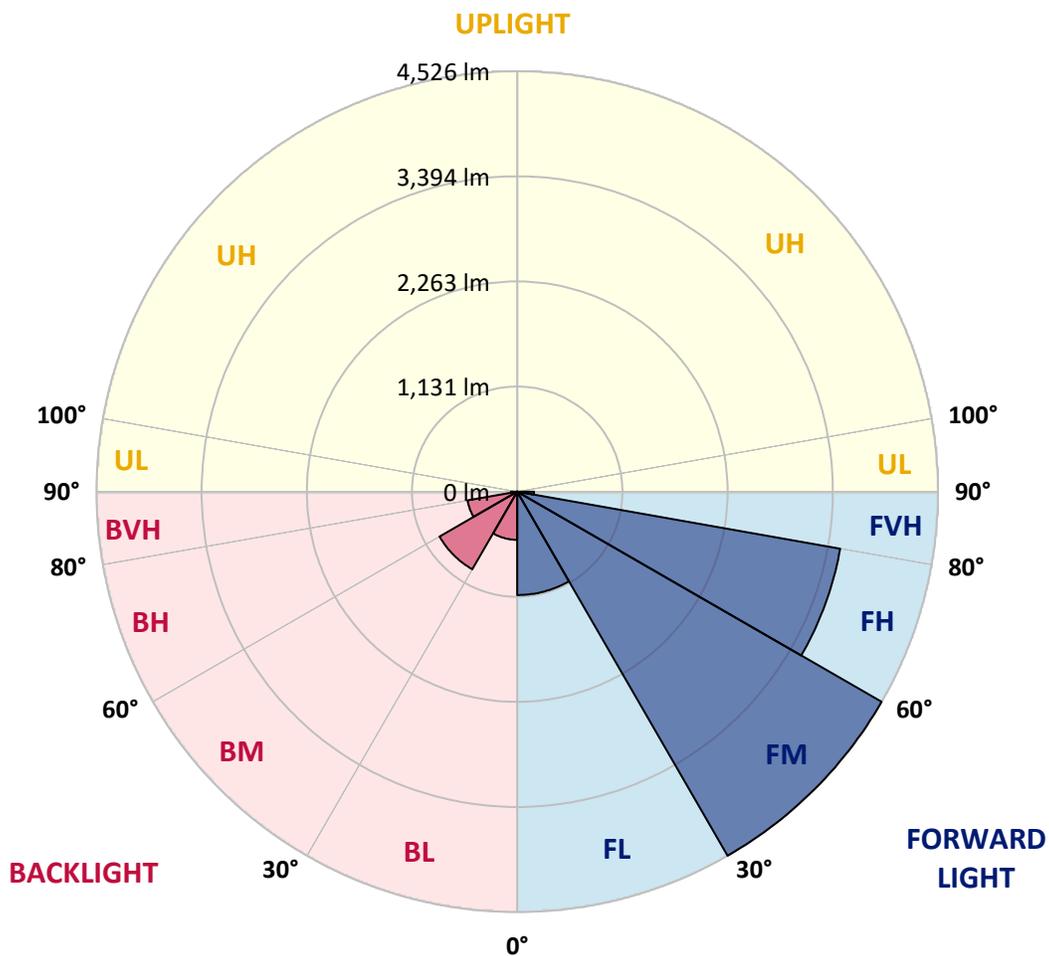
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.9	9.7			
FM (30°-60°)	4525.5	39.6			
FH (60°-80°)	3527.3	30.8			G2/5000
FVH (80°-90°)	180.4	1.6			G2/225
BL (0°-30°)	518.3	4.5	B2/1000		
BM (30°-60°)	965.5	8.4	B1/1000		
BH (60°-80°)	542.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.8	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





REPORT NUMBER: P1209068

CATALOG NUMBER: UPW-SA2-090-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	2547.4	2543.5	2534.6	2534.6	2530.7	2521.8	2496.1	2469.3	2443.7	2441.1	2407.8
5°	2652.3	2645.9	2644.6	2644.6	2639.5	2630.6	2596.0	2558.9	2521.8	2514.1	2453.9
7.5°	2702.2	2697.1	2698.4	2704.8	2715.0	2707.4	2676.6	2644.6	2594.7	2588.3	2498.7
10°	2675.4	2679.2	2694.6	2730.4	2756.0	2770.1	2744.5	2715.0	2663.8	2656.2	2534.6
12.5°	2505.1	2516.6	2565.3	2657.4	2754.7	2808.5	2807.2	2776.5	2715.0	2708.6	2562.7
15°	2247.8	2233.7	2323.3	2470.5	2647.2	2799.5	2849.4	2835.4	2773.9	2765.0	2596.0
17.5°	2121.1	2122.4	2162.0	2252.9	2447.5	2726.6	2872.5	2894.3	2836.6	2825.1	2633.1
20°	2172.3	2171.0	2174.8	2205.6	2299.0	2578.1	2873.8	2958.3	2898.1	2890.4	2666.4
22.5°	2318.2	2313.1	2301.6	2276.0	2278.5	2446.2	2855.8	3028.7	2976.2	2960.8	2689.4
25°	2521.8	2508.9	2471.8	2414.2	2352.8	2406.5	2809.8	3110.6	3065.8	3049.1	2713.8
27.5°	2753.4	2750.9	2711.2	2601.1	2484.6	2456.5	2757.3	3200.2	3172.0	3149.0	2740.6
30°	2992.8	2978.7	2941.6	2823.8	2676.6	2565.3	2741.9	3298.8	3284.7	3255.2	2762.4
32.5°	3123.4	3117.0	3092.7	3021.0	2893.0	2722.7	2786.7	3399.9	3446.0	3424.2	2809.8
35°	3227.1	3215.6	3189.9	3160.5	3095.2	2930.1	2890.4	3521.5	3686.6	3648.2	2910.9
37.5°	3325.6	3312.8	3294.9	3266.8	3224.5	3128.5	3041.5	3687.9	3991.3	3964.4	3064.5
40°	3435.7	3421.6	3398.6	3379.4	3320.5	3291.1	3183.5	3846.6	4317.7	4304.9	3248.8
42.5°	3518.9	3503.6	3492.0	3479.2	3415.2	3360.2	3294.9	3997.7	4758.0	4726.0	3493.3
45°	3580.4	3571.4	3571.4	3556.1	3513.8	3362.8	3373.0	4199.9	5231.7	5221.4	3831.3
47.5°	3646.9	3635.4	3641.8	3627.7	3614.9	3365.3	3469.0	4470.0	5801.3	5792.3	4208.9
50°	3726.3	3714.8	3740.4	3719.9	3725.0	3442.1	3606.0	4808.0	6364.5	6342.8	4610.8
52.5°	3736.5	3734.0	3798.0	3844.1	3881.2	3617.5	3837.7	5211.2	6980.3	6980.3	5079.3
55°	3529.2	3524.0	3648.2	3844.1	4052.7	3954.2	4267.8	5842.3	7661.3	7679.2	5496.6
57.5°	2866.1	2890.4	3100.3	3485.6	4043.8	4434.2	4904.0	6610.3	8621.3	8562.4	5906.3
60°	1822.8	1858.7	2026.4	2556.3	3439.6	4514.8	5588.8	7585.7	9595.5	9482.8	6447.7
62.5°	1204.6	1173.8	1176.4	1426.0	2213.3	3794.1	5723.2	8741.6	10770.6	10688.6	6929.1
65°	1071.4	1049.7	940.9	875.6	1075.3	2369.4	4866.8	9575.0	12281.1	12051.9	7297.7
67.5°	1016.4	994.6	893.5	792.4	677.2	1211.0	3458.8	9421.4	13335.8	13191.2	7570.4
70°	920.4	907.6	825.6	747.6	565.8	585.0	1995.6	8270.6	13721.1	13652.0	7446.2
72.5°	800.0	784.7	729.6	675.9	496.7	431.4	957.5	6556.6	12708.6	12703.5	6920.1
75°	655.4	642.6	597.8	579.9	419.9	353.3	544.0	4604.4	10587.5	10531.2	6150.8
77.5°	536.4	518.4	487.7	473.6	348.2	284.2	382.7	3214.3	7813.6	7666.4	4304.9
80°	389.1	377.6	348.2	381.5	275.2	220.2	284.2	1999.5	4591.6	4292.1	1612.9
82.5°	236.8	213.8	240.7	291.9	203.5	157.4	208.7	1114.9	1646.2	1446.5	481.3
85°	110.1	112.6	140.8	186.9	121.6	92.2	130.6	487.7	477.5	457.0	202.3
87.5°	17.9	19.2	53.8	81.9	51.2	30.7	52.5	107.5	180.5	185.6	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209068

CATALOG NUMBER: UPW-SA2-090-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2	2382.2
2.5°	2387.3	2366.9	2329.7	2288.8	2242.7	2200.5	2182.5	2123.6	2109.6	2105.7	2076.3
5°	2411.7	2366.9	2269.6	2154.4	2020.0	1898.4	1763.9	1656.4	1596.3	1591.1	1598.8
7.5°	2436.0	2365.6	2187.7	1954.7	1716.6	1481.0	1337.7	1253.2	1194.3	1180.2	1184.1
10°	2448.8	2347.7	2062.2	1703.8	1374.8	1203.3	1121.3	1091.9	1082.9	1075.3	1075.3
12.5°	2451.3	2308.0	1895.8	1433.7	1173.8	1090.6	1067.6	1059.9	1058.6	1057.3	1054.8
15°	2453.9	2258.1	1683.3	1225.0	1082.9	1056.1	1047.1	1045.8	1048.4	1047.1	1047.1
17.5°	2451.3	2190.2	1477.2	1104.7	1049.7	1039.4	1034.3	1033.0	1036.9	1035.6	1034.3
20°	2442.4	2103.2	1276.2	1043.3	1026.6	1024.1	1017.7	1012.5	1017.7	1018.9	1017.7
22.5°	2407.8	1975.2	1131.6	1004.9	1004.9	1004.9	997.2	990.8	999.7	1002.3	1003.6
25°	2354.1	1821.5	1024.1	972.9	979.3	976.7	976.7	975.4	984.4	986.9	988.2
27.5°	2297.7	1661.5	948.5	938.3	948.5	954.9	966.5	967.7	967.7	965.2	963.9
30°	2226.1	1487.4	899.9	907.6	921.7	944.7	965.2	962.6	953.7	944.7	946.0
32.5°	2168.4	1346.6	852.5	880.7	906.3	939.6	957.5	961.3	960.1	944.7	944.7
35°	2146.7	1234.0	820.5	857.7	896.1	926.8	934.5	951.1	948.5	929.3	928.1
37.5°	2160.8	1143.1	792.4	833.3	880.7	896.1	912.7	916.5	884.5	864.1	858.9
40°	2191.5	1076.5	766.8	802.6	855.1	867.9	890.9	856.4	829.5	812.8	815.4
42.5°	2277.3	1048.4	743.7	768.0	816.7	846.1	837.2	826.9	789.8	762.9	760.4
45°	2412.9	1047.1	723.2	732.2	773.2	803.9	802.6	791.1	751.4	723.2	719.4
47.5°	2598.6	1072.7	701.5	698.9	732.2	751.4	769.3	751.4	710.4	678.4	674.6
50°	2820.0	1139.3	681.0	664.4	687.4	716.8	725.8	713.0	674.6	643.9	640.0
52.5°	3086.3	1231.4	663.1	633.6	640.0	681.0	701.5	690.0	646.4	613.2	608.0
55°	3344.8	1318.5	638.8	601.6	591.4	647.7	679.7	678.4	614.4	579.9	577.3
57.5°	3609.8	1400.4	611.9	574.8	558.1	611.9	656.7	661.8	581.2	544.0	544.0
60°	3878.6	1458.0	578.6	546.6	537.6	572.2	622.1	623.4	551.7	523.6	526.1
62.5°	4098.8	1423.4	545.3	519.7	513.3	533.8	583.7	595.2	549.2	518.4	521.0
65°	4192.2	1308.2	508.2	494.1	483.9	491.5	537.6	551.7	503.1	468.5	472.3
67.5°	4132.1	1140.5	471.1	464.7	450.6	448.0	477.5	486.4	450.6	428.8	426.3
70°	3774.9	910.1	426.3	426.3	413.5	401.9	417.3	425.0	396.8	384.0	386.6
72.5°	3266.8	739.9	382.7	387.9	369.9	354.6	363.5	367.4	350.7	344.3	341.8
75°	2826.4	618.3	339.2	346.9	327.7	303.4	313.6	313.6	299.5	298.3	297.0
77.5°	2060.9	464.7	291.9	300.8	285.5	254.7	257.3	258.6	253.5	253.5	254.7
80°	882.0	284.2	238.1	252.2	236.8	199.7	207.4	207.4	220.2	252.2	247.1
82.5°	293.1	169.0	180.5	198.4	181.8	148.5	157.4	169.0	217.6	208.7	198.4
85°	125.4	93.4	115.2	125.4	116.5	89.6	102.4	176.7	161.3	156.2	157.4
87.5°	42.2	39.7	48.6	57.6	41.0	28.2	52.5	107.5	105.0	79.4	76.8
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)