

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: P1209338

Luminaire Tested: UPW-SA2-110-750-U-SL2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209338  
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-SA2-110-750-U-SL2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 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: 14158 lumens  
Efficiency: N/A  
Efficacy: 125.3 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

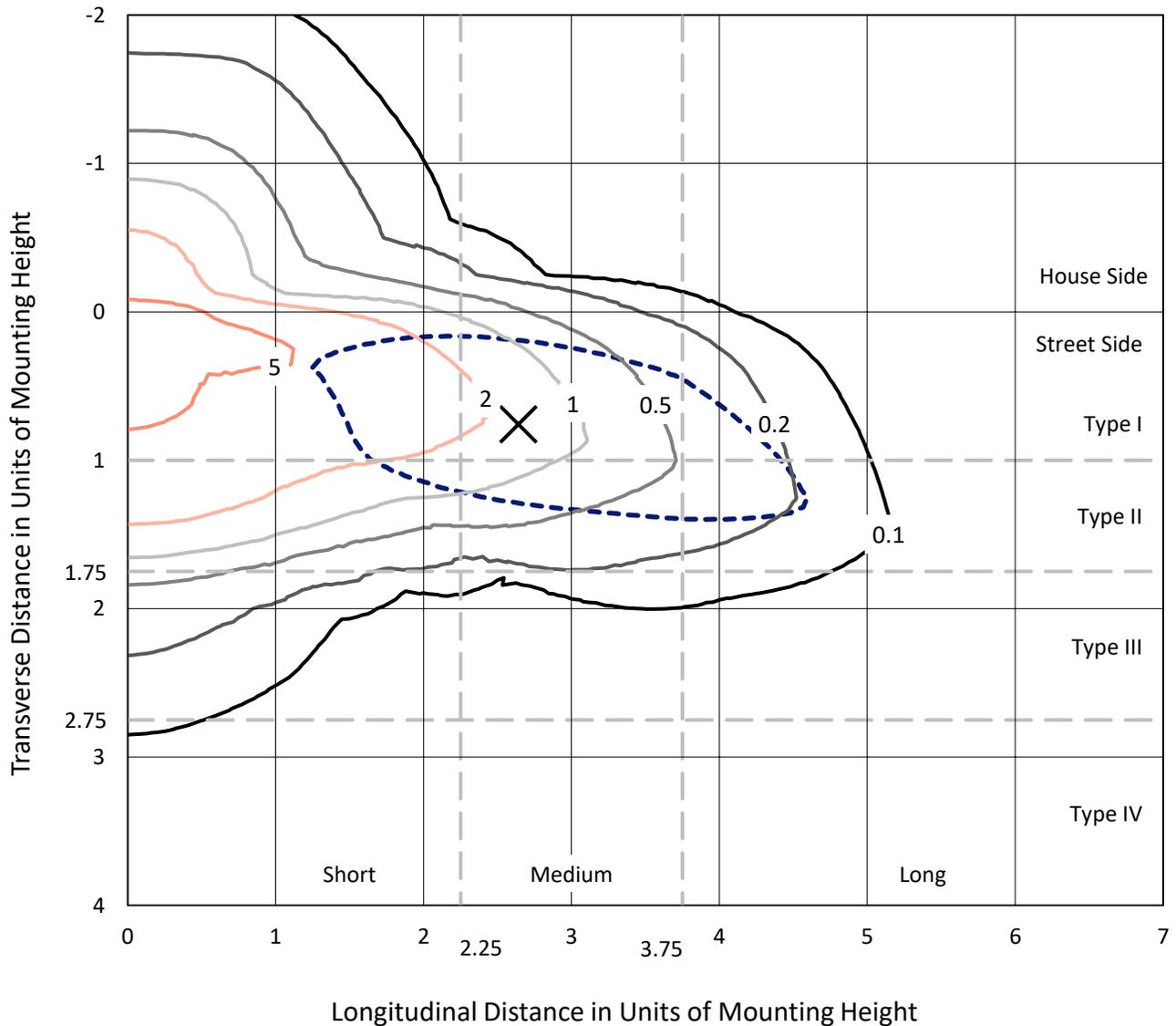


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

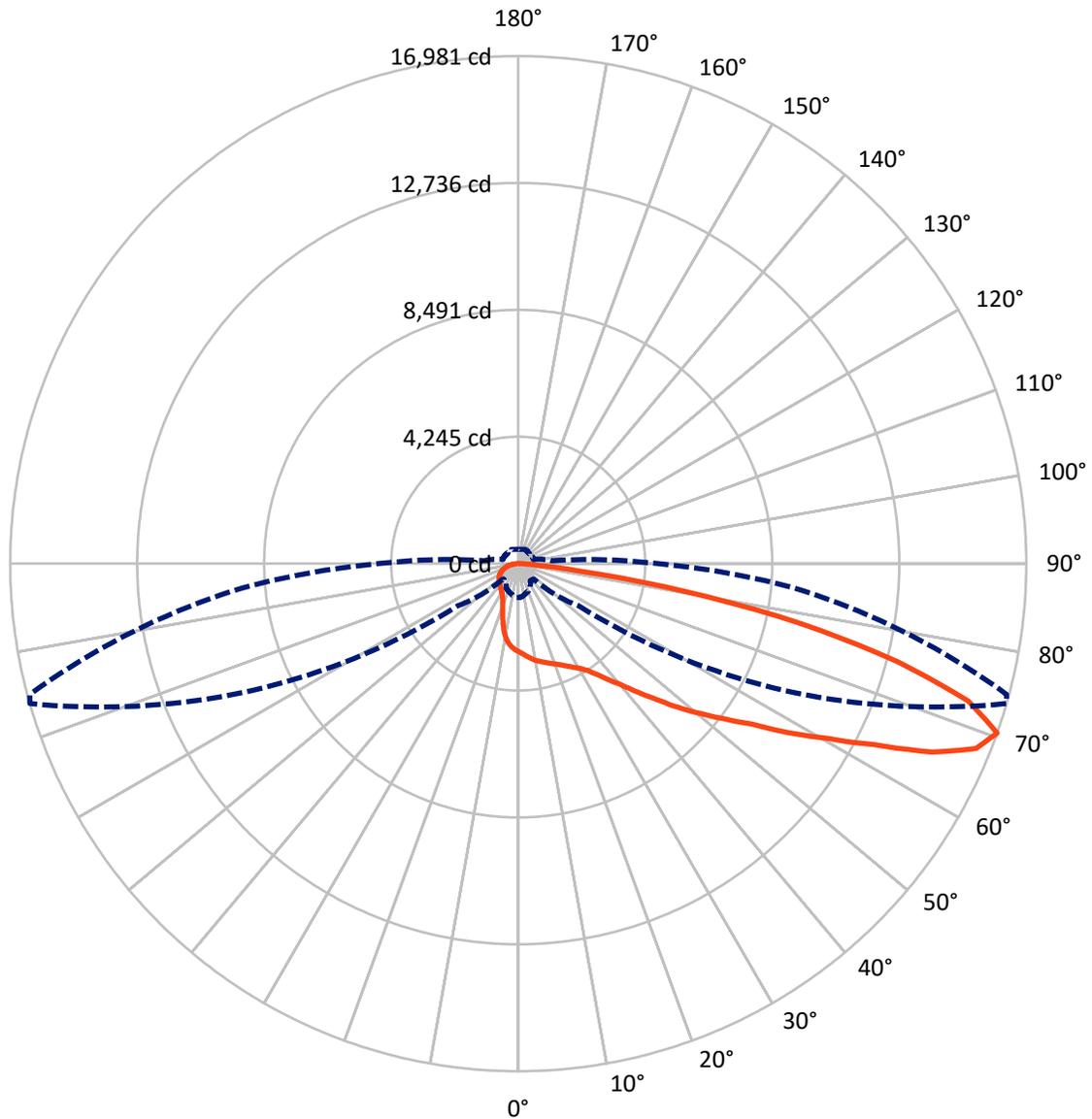


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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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	2591.4	0.0	2591.4
	% Fixture	18.3	0.0	18.3
<b>Street Side</b>	Lumens	11566.6	0.0	11566.6
	% Fixture	81.7	0.0	81.7
<b>Total</b>	Lumens	14158.0	0.0	14158.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.9	1.8
10°-20°	681.2	4.8
20°-30°	1078.6	7.6
30°-40°	1607.2	11.4
40°-50°	2216.2	15.7
50°-60°	2972.2	21.0
60°-70°	3084.6	21.8
70°-80°	1951.9	13.8
80°-90°	307.2	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°	14158.0	100.0
0°-180°	14158.0	100.0



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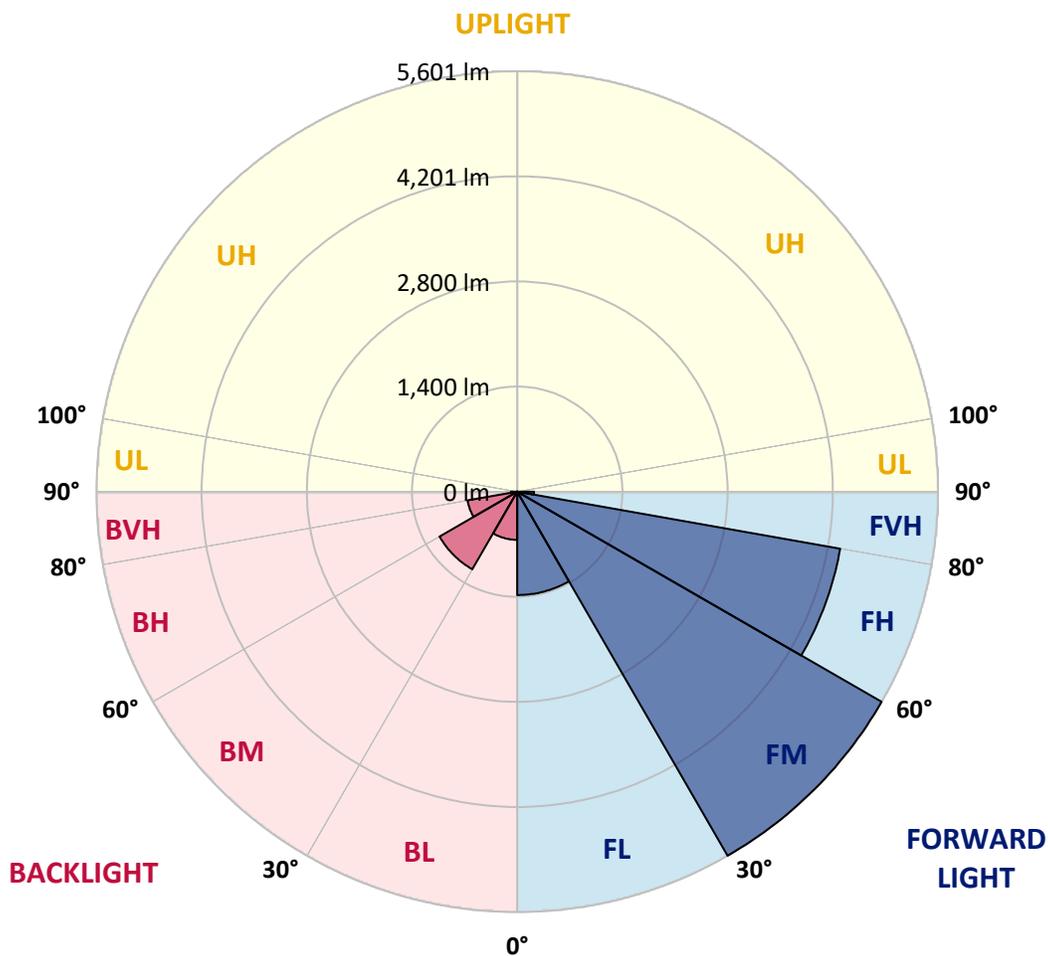
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1377.3	9.7			
FM	(30°-60°)	5600.7	39.6			
FH	(60°-80°)	4365.3	30.8			G2/5000
FVH	(80°-90°)	223.3	1.6			G2/225
BL	(0°-30°)	641.4	4.5	B2/1000		
BM	(30°-60°)	1194.9	8.4	B2/2500		
BH	(60°-80°)	671.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	84.0	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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	3152.6	3147.8	3136.7	3136.7	3132.0	3120.9	3089.2	3055.9	3024.2	3021.1	2979.9
5°	3282.5	3274.6	3273.0	3273.0	3266.6	3255.5	3212.8	3166.8	3120.9	3111.4	3036.9
7.5°	3344.3	3337.9	3339.5	3347.4	3360.1	3350.6	3312.6	3273.0	3211.2	3203.3	3092.4
10°	3311.0	3315.7	3334.8	3379.1	3410.8	3428.2	3396.5	3360.1	3296.7	3287.2	3136.7
12.5°	3100.3	3114.5	3174.7	3288.8	3409.2	3475.7	3474.2	3436.1	3360.1	3352.2	3171.6
15°	2781.9	2764.4	2875.3	3057.5	3276.1	3464.7	3526.4	3509.0	3433.0	3421.9	3212.8
17.5°	2625.0	2626.6	2675.7	2788.2	3029.0	3374.4	3555.0	3581.9	3510.6	3496.3	3258.7
20°	2688.4	2686.8	2691.6	2729.6	2845.2	3190.6	3556.5	3661.1	3586.6	3577.1	3299.9
22.5°	2869.0	2862.7	2848.4	2816.7	2819.9	3027.4	3534.4	3748.2	3683.3	3664.3	3328.4
25°	3120.9	3105.0	3059.1	2987.8	2911.8	2978.3	3477.3	3849.6	3794.2	3773.6	3358.5
27.5°	3407.6	3404.5	3355.3	3219.1	3074.9	3040.1	3412.4	3960.5	3925.7	3897.1	3391.8
30°	3703.9	3686.4	3640.5	3494.8	3312.6	3174.7	3393.4	4082.5	4065.1	4028.6	3418.7
32.5°	3865.5	3857.5	3827.4	3738.7	3580.3	3369.6	3448.8	4207.7	4264.7	4237.8	3477.3
35°	3993.8	3979.5	3947.8	3911.4	3830.6	3626.2	3577.1	4358.2	4562.5	4515.0	3602.5
37.5°	4115.8	4099.9	4077.7	4042.9	3990.6	3871.8	3764.1	4564.1	4939.6	4906.3	3792.6
40°	4252.0	4234.6	4206.1	4182.3	4109.4	4073.0	3939.9	4760.5	5343.5	5327.7	4020.7
42.5°	4355.0	4336.0	4321.7	4305.9	4226.7	4158.5	4077.7	4947.5	5888.5	5848.9	4323.3
45°	4431.0	4419.9	4419.9	4400.9	4348.6	4161.7	4174.4	5197.8	6474.7	6462.0	4741.5
47.5°	4513.4	4499.1	4507.1	4489.6	4473.8	4164.9	4293.2	5532.0	7179.6	7168.5	5208.9
50°	4611.6	4597.4	4629.1	4603.7	4610.0	4259.9	4462.7	5950.3	7876.7	7849.7	5706.3
52.5°	4624.3	4621.1	4700.3	4757.4	4803.3	4477.0	4749.5	6449.3	8638.7	8638.7	6286.1
55°	4367.7	4361.3	4515.0	4757.4	5015.6	4893.6	5281.7	7230.3	9481.5	9503.7	6802.6
57.5°	3547.0	3577.1	3836.9	4313.8	5004.5	5487.7	6069.1	8180.8	10669.6	10596.8	7309.5
60°	2255.9	2300.3	2507.8	3163.7	4256.8	5587.5	6916.6	9388.0	11875.2	11735.8	7979.6
62.5°	1490.7	1452.7	1455.9	1764.8	2739.1	4695.6	7083.0	10818.5	13329.5	13228.1	8575.3
65°	1326.0	1299.0	1164.4	1083.6	1330.7	2932.4	6023.2	11849.9	15198.9	14915.3	9031.6
67.5°	1257.9	1230.9	1105.8	980.6	838.0	1498.7	4280.5	11659.8	16504.3	16325.2	9369.0
70°	1139.0	1123.2	1021.8	925.2	700.2	724.0	2469.8	10235.6	16981.1	16895.6	9215.3
72.5°	990.1	971.1	903.0	836.5	614.7	533.9	1185.0	8114.3	15728.0	15721.7	8564.2
75°	811.1	795.3	739.8	717.6	519.6	437.2	673.3	5698.4	13103.0	13033.3	7612.1
77.5°	663.8	641.6	603.6	586.2	430.9	351.7	473.7	3977.9	9670.0	9487.8	5327.7
80°	481.6	467.3	430.9	472.1	340.6	272.5	351.7	2474.5	5682.5	5311.8	1996.1
82.5°	293.1	264.6	297.8	361.2	251.9	194.9	258.2	1379.8	2037.3	1790.2	595.7
85°	136.2	139.4	174.3	231.3	150.5	114.1	161.6	603.6	590.9	565.6	250.3
87.5°	22.2	23.8	66.5	101.4	63.4	38.0	65.0	133.1	223.4	229.7	107.7
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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2954.5	2929.2	2883.3	2832.6	2775.5	2723.3	2701.1	2628.2	2610.8	2606.0	2569.6
5°	2984.6	2929.2	2808.8	2666.2	2499.9	2349.4	2183.0	2050.0	1975.5	1969.2	1978.7
7.5°	3014.7	2927.6	2707.4	2419.1	2124.4	1832.9	1655.5	1550.9	1478.1	1460.6	1465.4
10°	3030.6	2905.4	2552.2	2108.6	1701.4	1489.2	1387.8	1351.3	1340.2	1330.7	1330.7
12.5°	3033.8	2856.3	2346.2	1774.3	1452.7	1349.7	1321.2	1311.7	1310.1	1308.6	1305.4
15°	3036.9	2794.5	2083.2	1516.1	1340.2	1307.0	1295.9	1294.3	1297.5	1295.9	1295.9
17.5°	3033.8	2710.6	1828.2	1367.2	1299.0	1286.4	1280.0	1278.5	1283.2	1281.6	1280.0
20°	3022.7	2602.9	1579.5	1291.1	1270.5	1267.4	1259.4	1253.1	1259.4	1261.0	1259.4
22.5°	2979.9	2444.4	1400.4	1243.6	1243.6	1243.6	1234.1	1226.2	1237.3	1240.4	1242.0
25°	2913.4	2254.3	1267.4	1204.0	1211.9	1208.7	1208.7	1207.2	1218.3	1221.4	1223.0
27.5°	2843.7	2056.3	1173.9	1161.2	1173.9	1181.8	1196.1	1197.7	1197.7	1194.5	1192.9
30°	2754.9	1840.8	1113.7	1123.2	1140.6	1169.1	1194.5	1191.3	1180.2	1169.1	1170.7
32.5°	2683.6	1666.6	1055.1	1089.9	1121.6	1162.8	1185.0	1189.7	1188.2	1169.1	1169.1
35°	2656.7	1527.2	1015.5	1061.4	1108.9	1147.0	1156.5	1177.1	1173.9	1150.1	1148.5
37.5°	2674.1	1414.7	980.6	1031.3	1089.9	1108.9	1129.5	1134.3	1094.7	1069.3	1063.0
40°	2712.2	1332.3	948.9	993.3	1058.2	1074.1	1102.6	1059.8	1026.6	1006.0	1009.1
42.5°	2818.3	1297.5	920.4	950.5	1010.7	1047.2	1036.1	1023.4	977.5	944.2	941.0
45°	2986.2	1295.9	895.1	906.2	956.9	994.9	993.3	979.0	929.9	895.1	890.3
47.5°	3215.9	1327.6	868.1	865.0	906.2	929.9	952.1	929.9	879.2	839.6	834.9
50°	3490.0	1409.9	842.8	822.2	850.7	887.2	898.2	882.4	834.9	796.9	792.1
52.5°	3819.5	1524.0	820.6	784.2	792.1	842.8	868.1	853.9	800.0	758.8	752.5
55°	4139.5	1631.7	790.5	744.6	731.9	801.6	841.2	839.6	760.4	717.6	714.5
57.5°	4467.5	1733.1	757.3	711.3	690.7	757.3	812.7	819.0	719.2	673.3	673.3
60°	4800.1	1804.4	716.1	676.5	665.4	708.1	769.9	771.5	682.8	647.9	651.1
62.5°	5072.6	1761.6	674.9	643.2	635.3	660.6	722.4	736.7	679.6	641.6	644.8
65°	5188.3	1619.1	628.9	611.5	598.8	608.3	665.4	682.8	622.6	579.8	584.6
67.5°	5113.8	1411.5	583.0	575.1	557.6	554.5	590.9	602.0	557.6	530.7	527.5
70°	4671.8	1126.4	527.5	527.5	511.7	497.4	516.5	526.0	491.1	475.3	478.4
72.5°	4042.9	915.7	473.7	480.0	457.8	438.8	449.9	454.7	434.1	426.2	423.0
75°	3497.9	765.2	419.8	429.3	405.6	375.5	388.1	388.1	370.7	369.1	367.5
77.5°	2550.6	575.1	361.2	372.3	353.3	315.3	318.4	320.0	313.7	313.7	315.3
80°	1091.5	351.7	294.7	312.1	293.1	247.1	256.6	256.6	272.5	312.1	305.8
82.5°	362.8	209.1	223.4	245.6	225.0	183.8	194.9	209.1	269.3	258.2	245.6
85°	155.3	115.6	142.6	155.3	144.2	110.9	126.7	218.6	199.6	193.3	194.9
87.5°	52.3	49.1	60.2	71.3	50.7	34.9	65.0	133.1	129.9	98.2	95.1
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)