

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: P1209274

Luminaire Tested: UPW-SA2-110-730-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 13746 lumens
Efficiency: N/A
Efficacy: 121.6 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

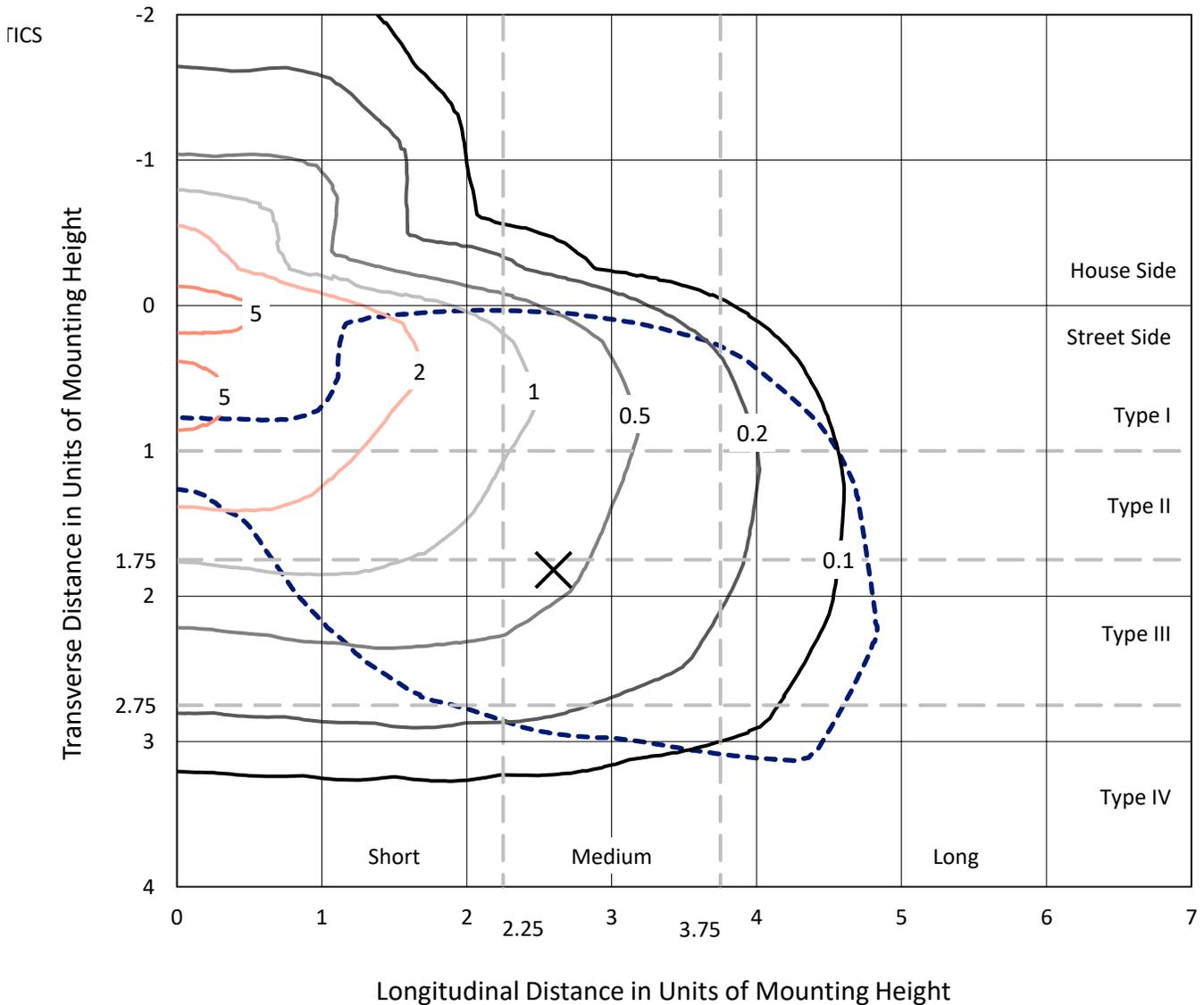


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Iso-Footcandle Lines of Horizontal Illumination

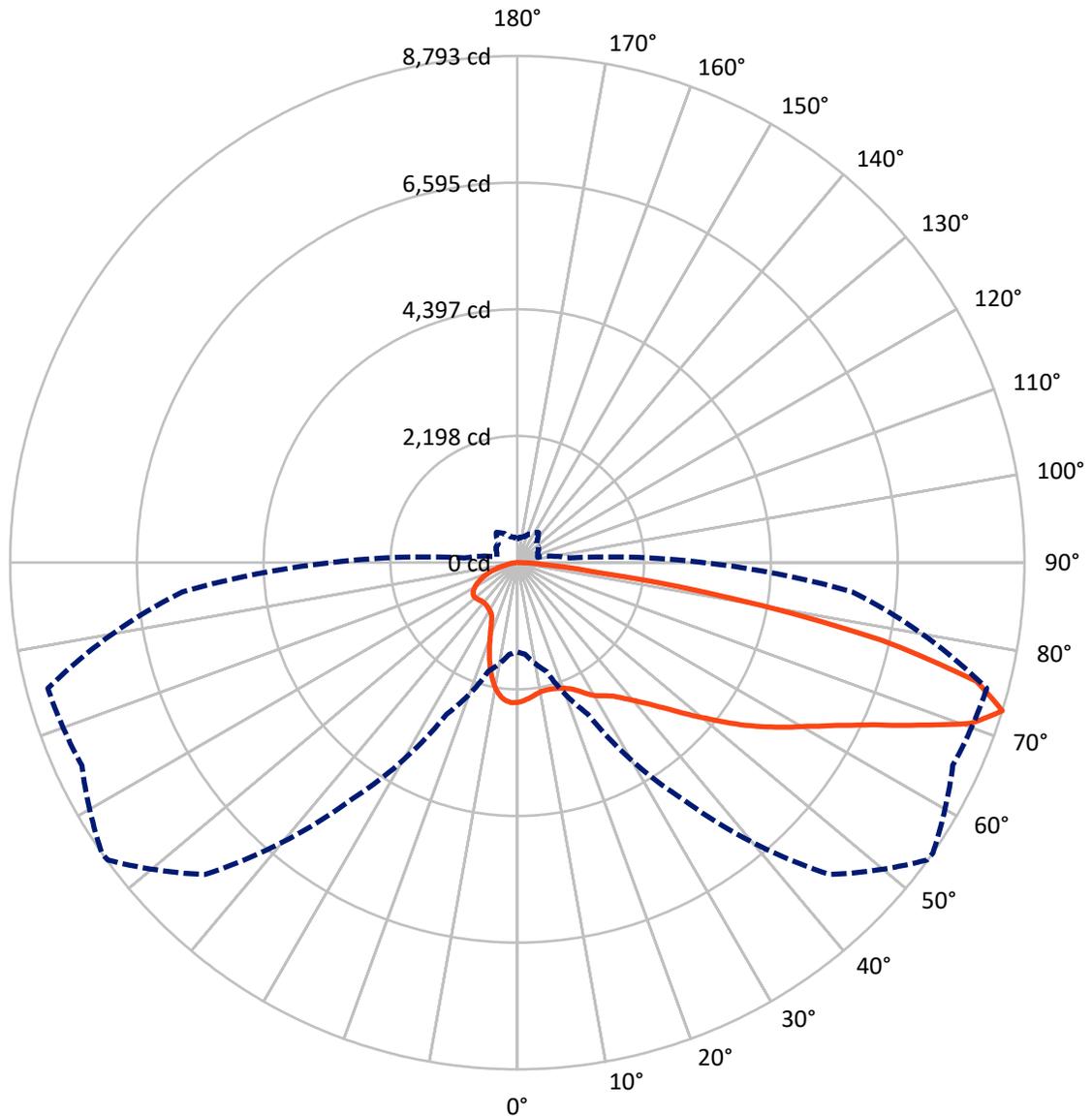
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2554.9	0.0	2554.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11191.1	0.0	11191.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	13746.0	0.0	13746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.6
10°-20°	584.1	4.2
20°-30°	963.0	7.0
30°-40°	1424.6	10.4
40°-50°	1988.4	14.5
50°-60°	2588.9	18.8
60°-70°	3181.7	23.1
70°-80°	2494.1	18.1
80°-90°	301.8	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°	13746.0	100.0
0°-180°	13746.0	100.0

Coefficient of Utilization



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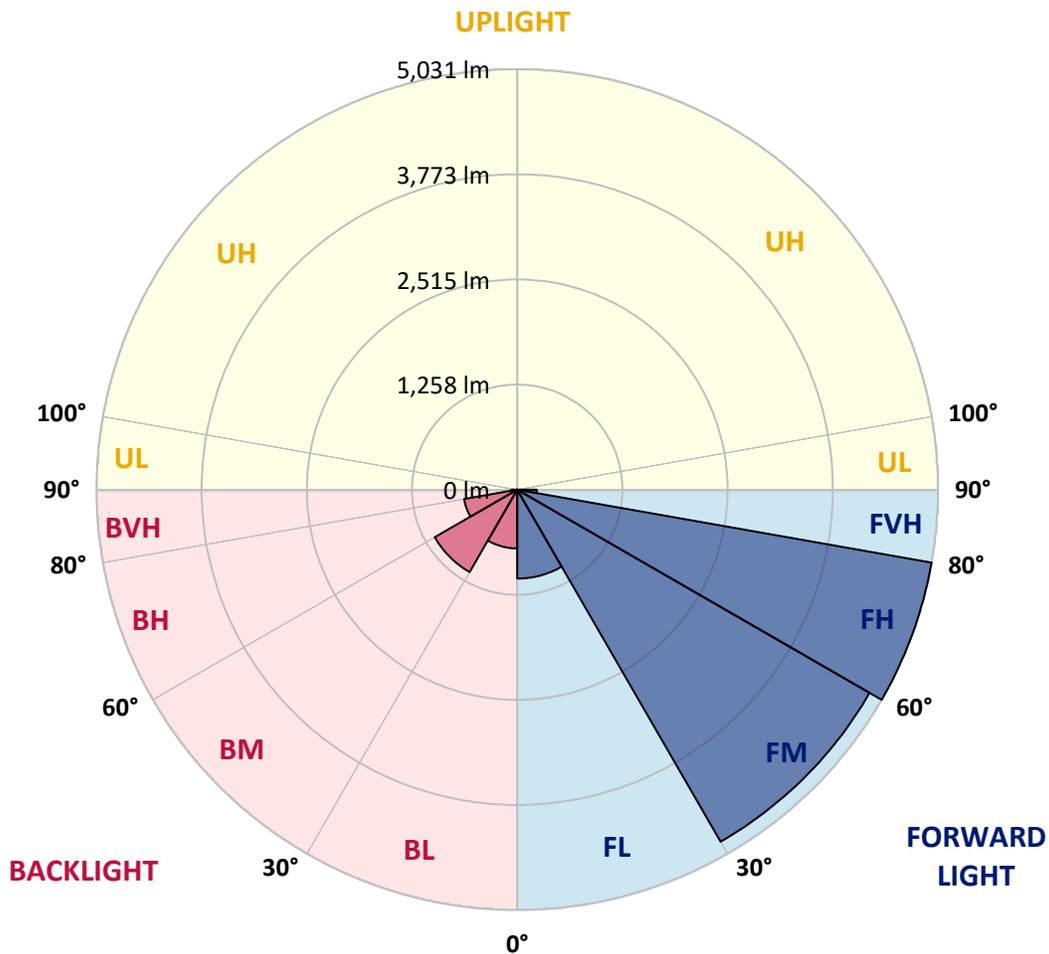
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.5	7.7			
FM (30°-60°)	4863.6	35.4			
FH (60°-80°)	5030.6	36.6			G3/7500
FVH (80°-90°)	233.4	1.7			G3/500
BL (0°-30°)	703.0	5.1	B2/1000		
BM (30°-60°)	1138.3	8.3	B2/2500		
BH (60°-80°)	645.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.5	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°	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5
2.5°	2345.6	2340.0	2347.0	2356.7	2367.4	2381.8	2390.1	2393.9	2408.2	2413.8	2425.9
5°	2236.9	2234.1	2245.7	2262.5	2286.1	2319.6	2346.5	2351.6	2389.7	2416.6	2441.2
7.5°	2158.0	2158.0	2171.5	2191.4	2217.9	2262.9	2301.0	2308.0	2372.5	2430.5	2476.0
10°	2095.3	2097.6	2113.4	2137.1	2168.2	2216.0	2266.6	2274.5	2367.9	2463.0	2535.5
12.5°	2053.5	2059.1	2073.5	2094.9	2133.4	2191.4	2255.5	2266.2	2377.6	2509.5	2607.0
15°	2080.0	2089.3	2090.7	2099.5	2120.9	2184.0	2262.0	2273.1	2398.5	2556.8	2688.2
17.5°	2196.1	2199.3	2184.9	2166.4	2156.1	2196.5	2281.5	2293.1	2423.6	2603.7	2766.2
20°	2372.5	2370.6	2339.5	2289.4	2237.4	2243.9	2313.5	2325.6	2457.5	2645.0	2844.2
22.5°	2595.4	2588.9	2541.0	2448.6	2360.0	2322.8	2369.7	2379.9	2508.5	2704.0	2927.8
25°	2865.6	2851.2	2788.0	2664.1	2533.6	2438.0	2454.2	2464.0	2582.8	2769.9	3004.4
27.5°	3150.6	3136.2	3055.9	2906.0	2732.3	2583.3	2570.7	2579.1	2667.3	2818.7	3061.0
30°	3448.7	3433.4	3360.0	3192.0	2943.1	2733.7	2679.4	2682.6	2726.7	2845.1	3107.5
32.5°	3748.2	3733.8	3651.6	3456.6	3172.0	2895.3	2757.9	2753.7	2762.5	2872.5	3159.9
35°	4051.8	4057.4	3961.3	3745.4	3425.5	3075.0	2850.7	2841.9	2822.4	2928.7	3234.2
37.5°	4376.8	4373.1	4248.7	4023.0	3690.6	3270.0	2984.0	2982.6	2915.2	3035.0	3350.7
40°	4594.1	4596.4	4520.7	4307.2	3958.5	3485.9	3154.8	3151.6	3063.4	3194.3	3503.5
42.5°	4679.1	4694.4	4713.9	4578.3	4238.9	3736.1	3358.6	3354.0	3270.0	3422.7	3683.2
45°	4685.1	4715.7	4836.5	4819.3	4523.1	4022.6	3619.1	3606.1	3545.7	3726.4	3897.7
47.5°	4633.1	4664.7	4865.2	4962.7	4777.0	4324.8	3923.7	3913.5	3861.5	4106.1	4129.8
50°	4519.4	4549.5	4805.8	5032.9	4986.0	4615.5	4274.7	4247.7	4219.9	4544.9	4395.4
52.5°	4306.2	4364.3	4726.4	5049.6	5110.9	4873.6	4643.8	4626.1	4641.5	5007.8	4661.4
55°	3801.6	3866.6	4521.7	5035.6	5203.2	5090.4	5012.9	5012.0	5091.4	5493.4	4947.0
57.5°	3518.8	3564.8	4104.7	5012.0	5312.8	5305.9	5378.3	5387.1	5541.7	6022.2	5246.0
60°	3359.1	3407.4	3893.5	4924.2	5482.7	5584.4	5751.1	5768.7	5999.5	6607.7	5605.8
62.5°	3213.8	3266.7	3762.6	4745.5	5682.9	5982.8	6197.7	6213.5	6484.2	7209.4	5953.5
65°	2965.4	3025.3	3570.8	4628.0	5864.9	6502.3	6765.6	6776.2	7040.9	7839.9	6219.6
67.5°	2614.4	2669.2	3209.1	4368.5	5999.5	7133.3	7520.5	7526.5	7592.9	8285.2	6355.6
70°	2204.4	2225.3	2693.8	3832.7	5840.2	7723.4	8347.9	8349.2	8096.2	8570.2	6333.3
72.5°	1548.9	1598.1	1955.6	2901.3	5018.9	7651.4	8777.3	8793.1	8330.2	8426.3	5827.2
75°	949.9	1001.9	1226.6	1758.2	3184.1	6017.6	8109.7	8219.2	7891.5	7513.1	4760.3
77.5°	635.1	654.6	800.4	1025.1	1442.5	3462.2	6234.9	6441.0	6555.7	5479.0	3044.3
80°	354.2	391.4	530.7	637.0	641.6	1375.7	3738.4	3786.7	3647.4	2181.7	939.2
82.5°	187.6	208.0	354.2	374.2	350.1	460.6	1393.3	1394.7	1165.4	585.0	279.0
85°	145.3	162.5	242.8	228.4	178.7	204.3	459.6	484.7	396.5	239.6	91.0
87.5°	72.4	90.1	164.8	144.9	70.1	58.5	164.4	175.5	156.5	93.8	33.0
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°	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5	2424.5
2.5°	2430.5	2434.7	2439.8	2434.2	2432.4	2425.0	2412.4	2409.6	2403.1	2403.6	2407.3
5°	2451.9	2458.9	2456.1	2434.7	2409.2	2373.4	2336.3	2304.7	2283.8	2282.4	2281.0
7.5°	2492.7	2497.4	2475.6	2414.7	2343.2	2260.6	2182.6	2114.4	2073.0	2062.8	2060.5
10°	2556.8	2555.9	2496.0	2373.4	2230.9	2083.2	1957.9	1863.2	1807.9	1791.7	1787.5
12.5°	2628.3	2617.6	2503.0	2298.2	2072.1	1867.4	1708.6	1603.2	1545.6	1527.0	1522.4
15°	2702.1	2675.7	2485.8	2185.9	1877.1	1634.7	1468.1	1370.6	1339.5	1329.2	1327.4
17.5°	2770.9	2719.8	2436.6	2033.6	1654.7	1403.1	1273.1	1234.1	1241.5	1255.0	1255.4
20°	2838.2	2749.5	2357.6	1841.4	1420.2	1212.2	1168.1	1196.9	1232.2	1259.6	1263.3
22.5°	2904.6	2770.4	2256.0	1619.4	1210.4	1105.0	1136.1	1188.6	1229.0	1258.7	1263.8
25°	2960.3	2775.5	2115.7	1382.6	1064.6	1064.6	1120.8	1170.5	1210.4	1239.6	1244.7
27.5°	2980.7	2741.1	1918.0	1163.5	991.2	1046.0	1099.4	1140.7	1174.6	1205.7	1211.3
30°	2988.6	2677.5	1689.5	987.5	961.1	1026.1	1070.6	1105.9	1138.0	1167.2	1172.3
32.5°	2990.0	2600.9	1447.2	887.7	940.2	1005.2	1034.9	1066.0	1100.4	1112.0	1113.8
35°	2998.8	2510.4	1191.8	836.6	920.7	985.7	1009.4	1031.6	975.9	980.1	983.8
37.5°	3024.4	2420.8	978.2	807.9	908.1	975.5	1003.8	923.0	879.4	869.1	867.7
40°	3072.2	2325.1	819.9	784.6	903.5	980.6	968.0	861.7	786.5	730.3	722.0
42.5°	3138.6	2222.1	718.7	769.3	906.7	1005.2	918.4	802.7	677.9	641.6	637.0
45°	3213.3	2113.9	663.9	758.6	917.9	1024.2	908.1	724.3	627.2	599.9	597.5
47.5°	3285.7	1981.6	635.6	754.0	933.2	1008.9	865.0	700.1	603.1	588.7	590.1
50°	3368.9	1862.2	618.4	748.9	946.7	999.1	816.2	687.6	593.8	611.5	630.0
52.5°	3439.0	1738.7	603.1	738.7	951.8	982.0	803.7	689.9	593.8	627.7	645.4
55°	3522.1	1645.4	585.5	717.3	942.0	933.2	794.9	703.9	600.8	579.4	581.3
57.5°	3629.3	1614.8	566.0	683.9	909.5	862.2	790.7	717.3	596.6	583.1	587.8
60°	3777.9	1647.3	558.1	640.2	858.9	806.5	791.1	710.4	567.4	544.1	544.6
62.5°	3919.5	1683.5	557.6	612.9	796.7	756.8	780.5	687.6	552.5	539.0	544.1
65°	3965.9	1646.8	535.3	582.2	726.6	697.4	761.0	663.5	541.4	520.9	520.0
67.5°	3903.7	1533.1	490.3	532.5	646.3	628.2	735.4	634.7	523.7	507.0	504.2
70°	3718.9	1279.1	434.6	467.1	554.8	550.2	695.0	601.2	500.0	485.6	473.6
72.5°	3221.7	911.4	366.3	388.6	451.7	466.6	639.3	557.6	466.6	435.5	416.9
75°	2646.0	674.6	300.9	305.5	343.1	383.5	562.7	506.5	427.1	374.2	359.8
77.5°	1620.4	412.7	239.6	241.4	246.1	306.0	463.4	449.4	377.0	312.0	301.8
80°	524.6	225.2	173.2	182.0	168.1	224.2	358.4	382.6	323.6	260.9	249.8
82.5°	199.6	131.4	117.0	123.0	116.5	150.4	261.4	306.4	265.1	214.5	174.6
85°	96.6	74.3	69.2	77.5	72.0	77.1	167.1	225.6	201.0	139.7	130.0
87.5°	34.4	33.0	26.5	35.7	30.6	27.4	51.1	113.7	132.8	96.1	85.9
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)