

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: P1209247

Luminaire Tested: UPW-SA2-110-727-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 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: 12623 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

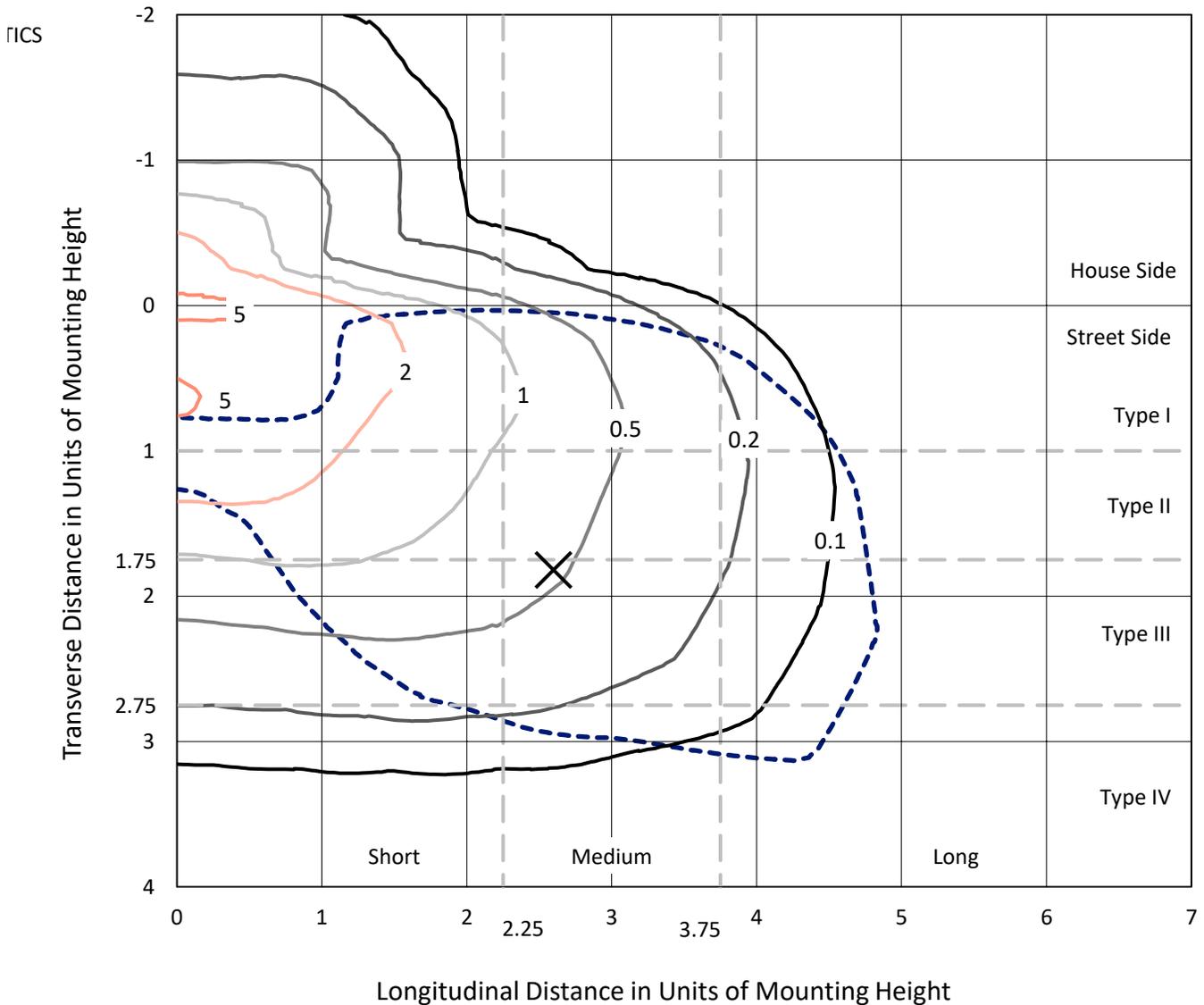


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Iso-Footcandle Lines of Horizontal Illumination

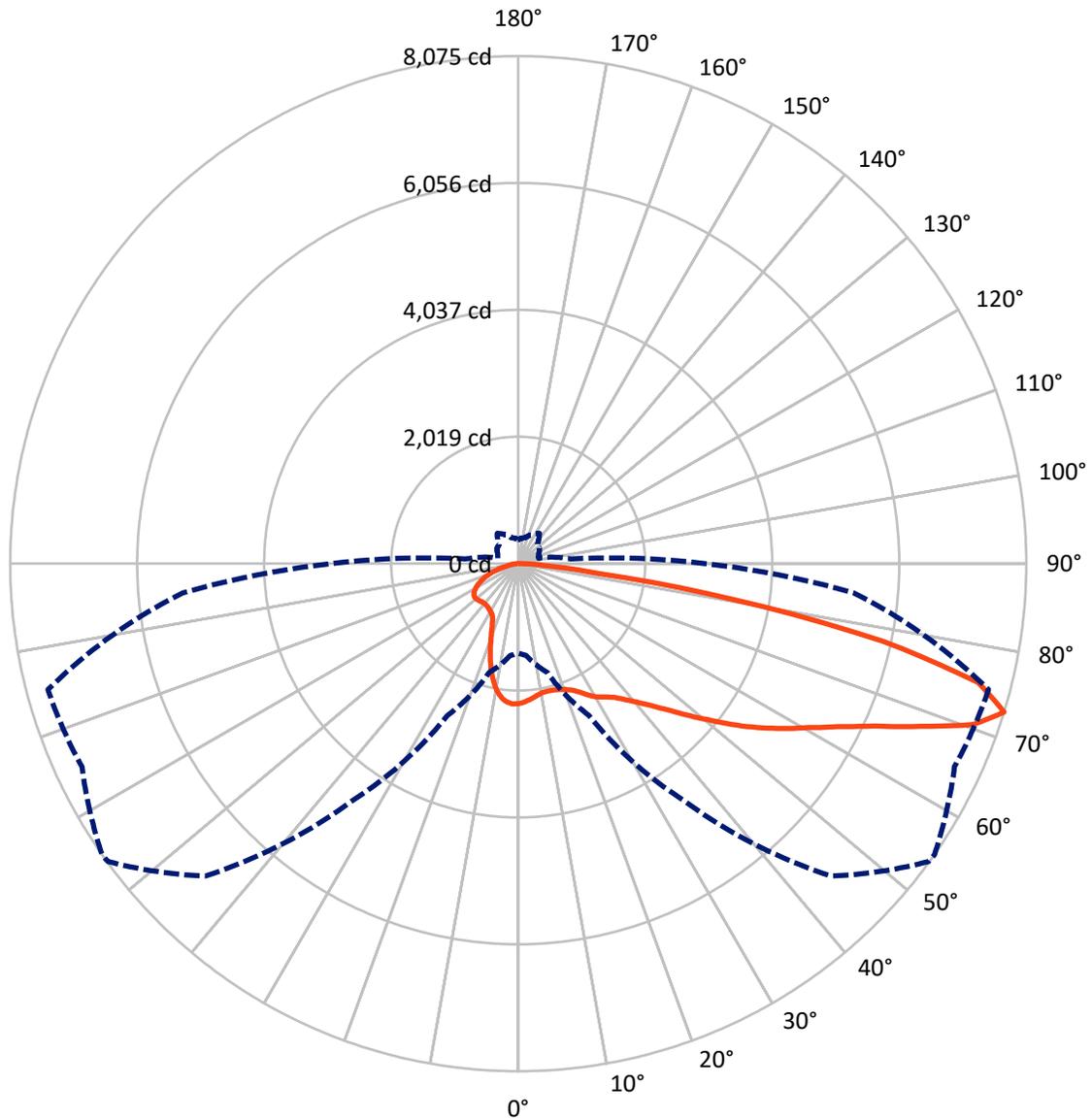
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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	2346.2	0.0	2346.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10276.8	0.0	10276.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	12623.0	0.0	12623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.6
10°-20°	536.4	4.2
20°-30°	884.4	7.0
30°-40°	1308.2	10.4
40°-50°	1825.9	14.5
50°-60°	2377.4	18.8
60°-70°	2921.8	23.1
70°-80°	2290.3	18.1
80°-90°	277.2	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°	12623.0	100.0
0°-180°	12623.0	100.0



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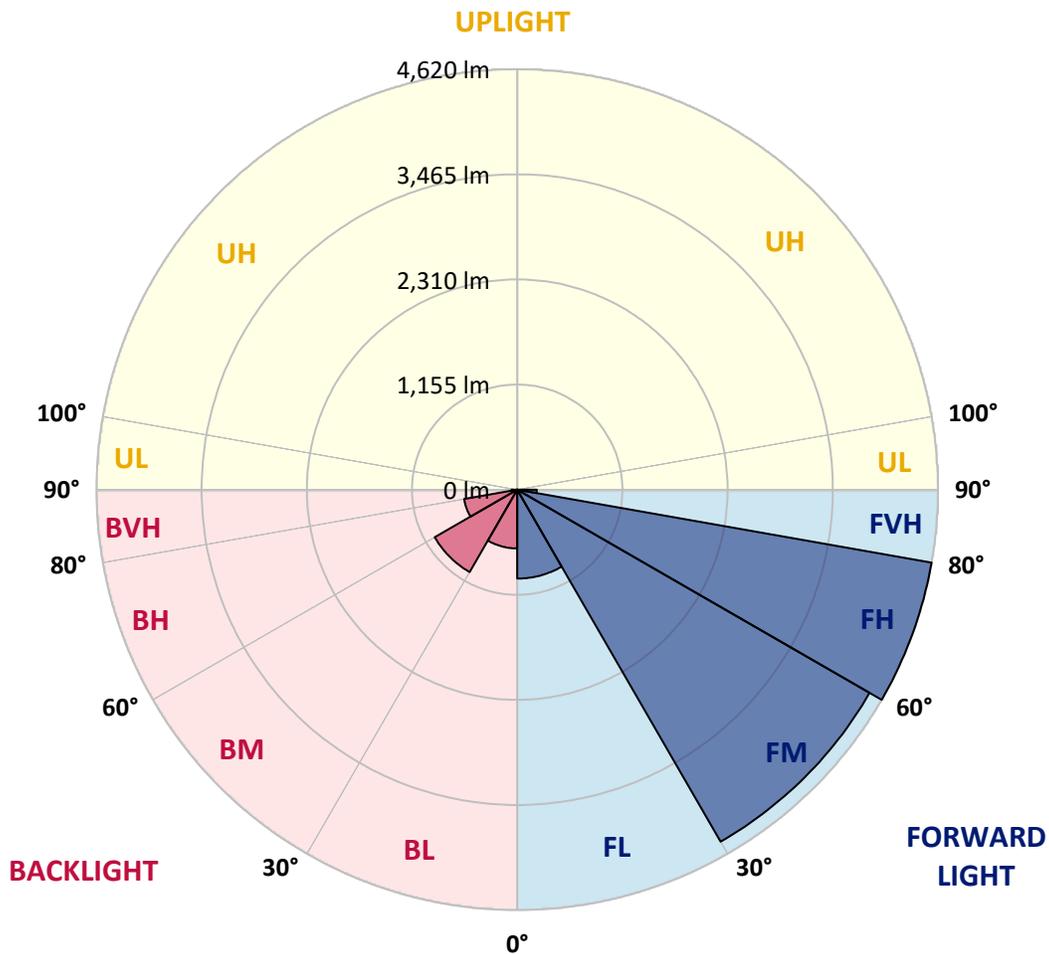
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.7	7.7			
FM	(30°-60°)	4466.3	35.4			
FH	(60°-80°)	4619.6	36.6			G2/5000
FVH	(80°-90°)	214.3	1.7			G2/225
BL	(0°-30°)	645.5	5.1	B2/1000		
BM	(30°-60°)	1045.3	8.3	B2/2500		
BH	(60°-80°)	592.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	62.9	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2153.9	2148.8	2155.2	2164.2	2174.0	2187.2	2194.9	2198.3	2211.5	2216.6	2227.7
5°	2054.2	2051.6	2062.3	2077.6	2099.4	2130.1	2154.8	2159.5	2194.4	2219.2	2241.8
7.5°	1981.7	1981.7	1994.1	2012.4	2036.7	2078.1	2113.0	2119.4	2178.7	2232.0	2273.8
10°	1924.1	1926.3	1940.8	1962.5	1991.1	2035.0	2081.5	2088.7	2174.4	2261.8	2328.3
12.5°	1885.8	1890.9	1904.1	1923.7	1959.1	2012.4	2071.2	2081.0	2183.4	2304.4	2394.0
15°	1910.1	1918.6	1919.9	1928.0	1947.6	2005.6	2077.2	2087.4	2202.5	2347.9	2468.6
17.5°	2016.7	2019.6	2006.4	1989.4	1980.0	2017.1	2095.1	2105.8	2225.6	2391.0	2540.2
20°	2178.7	2177.0	2148.4	2102.4	2054.6	2060.6	2124.5	2135.6	2256.7	2428.9	2611.9
22.5°	2383.3	2377.4	2333.4	2248.6	2167.2	2133.1	2176.1	2185.5	2303.6	2483.1	2688.6
25°	2631.5	2618.2	2560.3	2446.4	2326.6	2238.8	2253.7	2262.7	2371.8	2543.6	2758.9
27.5°	2893.2	2880.0	2806.3	2668.6	2509.1	2372.2	2360.7	2368.4	2449.4	2588.4	2811.0
30°	3167.0	3152.9	3085.5	2931.2	2702.7	2510.4	2460.5	2463.5	2504.0	2612.7	2853.6
32.5°	3442.0	3428.7	3353.3	3174.2	2912.9	2658.7	2532.5	2528.7	2536.8	2637.9	2901.8
35°	3720.8	3725.9	3637.7	3439.4	3145.6	2823.7	2617.8	2609.7	2591.8	2689.4	2970.0
37.5°	4019.2	4015.8	3901.6	3694.4	3389.1	3002.8	2740.2	2738.9	2677.1	2787.1	3077.0
40°	4218.8	4220.9	4151.4	3955.3	3635.1	3201.1	2897.1	2894.1	2813.1	2933.3	3217.3
42.5°	4296.8	4310.9	4328.8	4204.3	3892.6	3430.9	3084.3	3080.0	3002.8	3143.1	3382.3
45°	4302.3	4330.5	4441.3	4425.6	4153.6	3693.9	3323.4	3311.5	3256.1	3421.9	3579.2
47.5°	4254.6	4283.6	4467.8	4557.3	4386.8	3971.5	3603.1	3593.7	3546.0	3770.7	3792.4
50°	4150.1	4177.9	4413.2	4621.7	4578.6	4238.4	3925.5	3900.7	3875.1	4173.6	4036.3
52.5°	3954.4	4007.7	4340.3	4637.0	4693.3	4475.4	4264.4	4248.2	4262.3	4598.7	4280.6
55°	3491.0	3550.7	4152.3	4624.2	4778.2	4674.6	4603.4	4602.5	4675.4	5044.6	4542.8
57.5°	3231.3	3273.6	3769.4	4602.5	4878.8	4872.4	4938.9	4947.0	5089.0	5530.3	4817.4
60°	3084.7	3129.0	3575.4	4521.9	5034.8	5128.2	5281.3	5297.5	5509.4	6067.9	5147.8
62.5°	2951.2	2999.8	3455.2	4357.8	5218.6	5494.0	5691.4	5705.9	5954.5	6620.4	5467.1
65°	2723.1	2778.1	3279.1	4249.9	5385.7	5971.1	6212.8	6222.7	6465.7	7199.4	5711.5
67.5°	2400.8	2451.1	2947.0	4011.6	5509.4	6550.5	6906.1	6911.6	6972.6	7608.3	5836.4
70°	2024.3	2043.5	2473.7	3519.6	5363.1	7092.4	7665.9	7667.1	7434.8	7870.1	5815.9
72.5°	1422.3	1467.5	1795.8	2664.3	4608.9	7026.3	8060.2	8074.7	7649.7	7737.9	5351.2
75°	872.3	920.1	1126.4	1614.6	2923.9	5526.0	7447.1	7547.8	7246.8	6899.3	4371.4
77.5°	583.3	601.2	735.0	941.4	1324.7	3179.3	5725.5	5914.8	6020.1	5031.4	2795.6
80°	325.3	359.4	487.3	585.0	589.2	1263.3	3433.0	3477.4	3349.4	2003.4	862.5
82.5°	172.2	191.0	325.3	343.6	321.5	422.9	1279.5	1280.8	1070.2	537.2	256.2
85°	133.4	149.2	223.0	209.8	164.1	187.6	422.1	445.1	364.1	220.0	83.6
87.5°	66.5	82.7	151.4	133.0	64.4	53.7	150.9	161.2	143.7	86.1	30.3
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°	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4	2226.4
2.5°	2232.0	2235.8	2240.5	2235.4	2233.7	2226.9	2215.3	2212.8	2206.8	2207.2	2210.7
5°	2251.6	2258.0	2255.4	2235.8	2212.4	2179.5	2145.4	2116.4	2097.2	2096.0	2094.7
7.5°	2289.1	2293.4	2273.3	2217.5	2151.8	2075.9	2004.3	1941.6	1903.7	1894.3	1892.2
10°	2347.9	2347.1	2292.1	2179.5	2048.6	1913.1	1797.9	1711.0	1660.2	1645.3	1641.5
12.5°	2413.6	2403.8	2298.5	2110.5	1902.8	1714.8	1569.0	1472.2	1419.3	1402.3	1398.0
15°	2481.4	2457.1	2282.7	2007.3	1723.8	1501.2	1348.1	1258.6	1230.0	1220.7	1218.9
17.5°	2544.5	2497.6	2237.5	1867.4	1519.5	1288.4	1169.1	1133.3	1140.1	1152.4	1152.9
20°	2606.3	2524.9	2165.0	1690.9	1304.2	1113.2	1072.7	1099.1	1131.5	1156.7	1160.1
22.5°	2667.3	2544.1	2071.7	1487.1	1111.5	1014.7	1043.3	1091.5	1128.6	1155.8	1160.5
25°	2718.4	2548.7	1942.9	1269.7	977.6	977.6	1029.2	1074.8	1111.5	1138.4	1143.1
27.5°	2737.2	2517.2	1761.3	1068.4	910.3	960.6	1009.6	1047.6	1078.7	1107.2	1112.4
30°	2744.4	2458.8	1551.5	906.9	882.6	942.2	983.2	1015.6	1045.0	1071.9	1076.5
32.5°	2745.7	2388.4	1328.9	815.2	863.4	923.1	950.3	978.9	1010.5	1021.1	1022.8
35°	2753.8	2305.3	1094.5	768.3	845.5	905.2	926.9	947.4	896.2	900.0	903.4
37.5°	2777.3	2223.0	898.3	741.9	834.0	895.8	921.8	847.6	807.5	798.1	796.9
40°	2821.2	2135.2	752.9	720.5	829.7	900.5	889.0	791.3	722.2	670.7	663.0
42.5°	2882.2	2040.5	660.0	706.5	832.7	923.1	843.3	737.2	622.5	589.2	585.0
45°	2950.8	1941.2	609.7	696.7	842.9	940.5	834.0	665.1	576.0	550.9	548.7
47.5°	3017.3	1819.7	583.7	692.4	857.0	926.5	794.3	642.9	553.8	540.6	541.9
50°	3093.6	1710.1	567.9	687.7	869.3	917.5	749.5	631.4	545.3	561.5	578.6
52.5°	3158.0	1596.7	553.8	678.3	874.0	901.7	738.0	633.6	545.3	576.4	592.6
55°	3234.3	1511.0	537.6	658.7	865.1	857.0	729.9	646.4	551.7	532.1	533.8
57.5°	3332.8	1482.9	519.7	628.0	835.2	791.7	726.1	658.7	547.9	535.5	539.8
60°	3469.3	1512.7	512.5	587.9	788.8	740.6	726.5	652.3	521.0	499.7	500.1
62.5°	3599.3	1546.0	512.1	562.8	731.6	695.0	716.7	631.4	507.4	495.0	499.7
65°	3641.9	1512.3	491.6	534.6	667.2	640.4	698.8	609.3	497.1	478.4	477.5
67.5°	3584.8	1407.8	450.2	489.0	593.5	576.9	675.3	582.8	480.9	465.6	463.0
70°	3415.1	1174.6	399.1	428.9	509.5	505.2	638.3	552.1	459.2	446.0	434.9
72.5°	2958.5	836.9	336.4	356.9	414.8	428.5	587.1	512.1	428.5	399.9	382.9
75°	2429.8	619.5	276.3	280.5	315.1	352.2	516.7	465.2	392.2	343.6	330.4
77.5°	1488.0	379.0	220.0	221.7	226.0	281.0	425.5	412.7	346.2	286.5	277.1
80°	481.8	206.8	159.0	167.1	154.3	205.9	329.1	351.3	297.2	239.6	229.4
82.5°	183.3	120.7	107.4	113.0	107.0	138.1	240.0	281.4	243.4	197.0	160.3
85°	88.7	68.2	63.5	71.2	66.1	70.8	153.5	207.2	184.6	128.3	119.4
87.5°	31.6	30.3	24.3	32.8	28.1	25.2	46.9	104.5	121.9	88.3	78.9
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)