

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: P1209652

Luminaire Tested: UPW-SA2-130-827-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-130-827-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12171 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

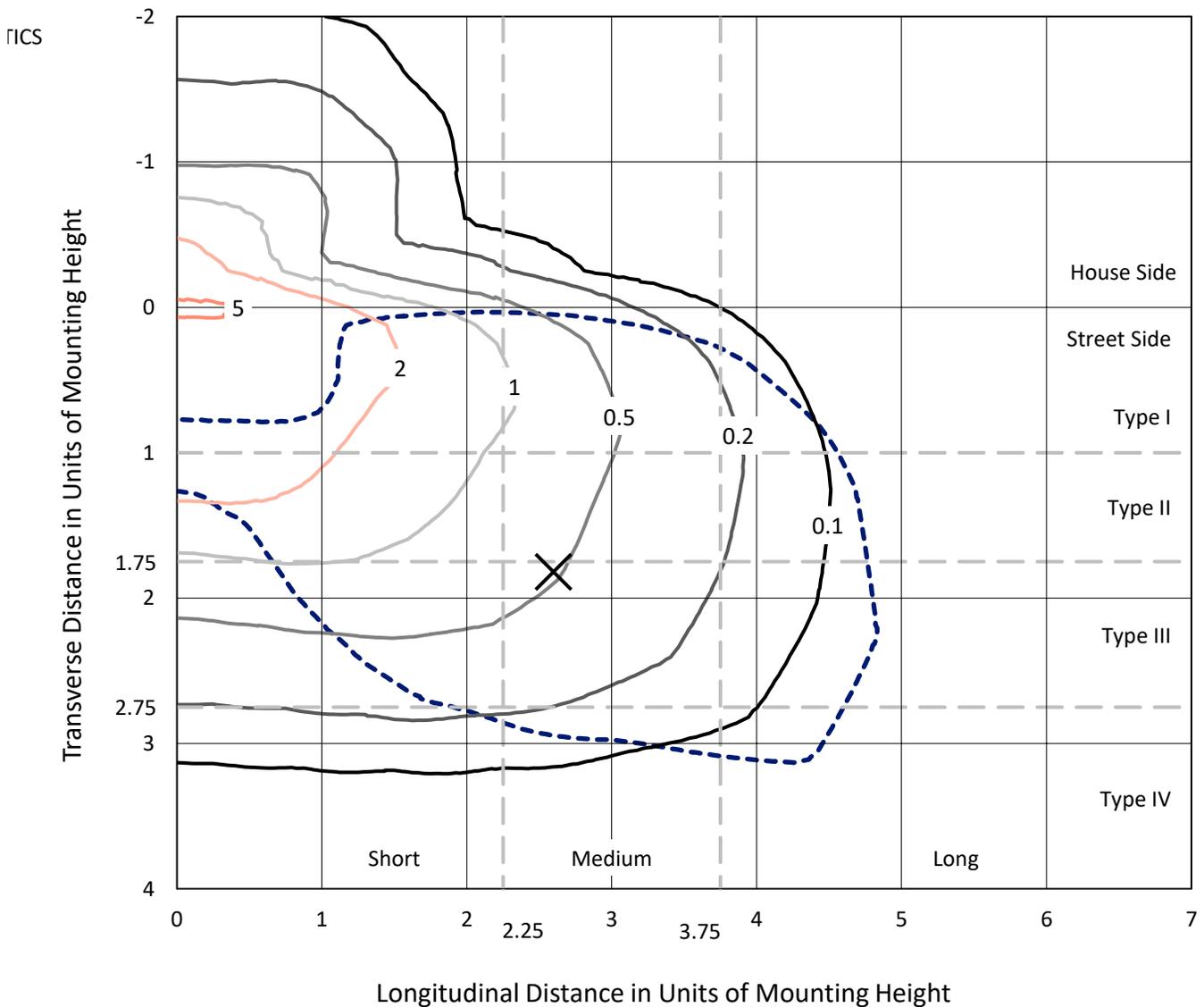
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

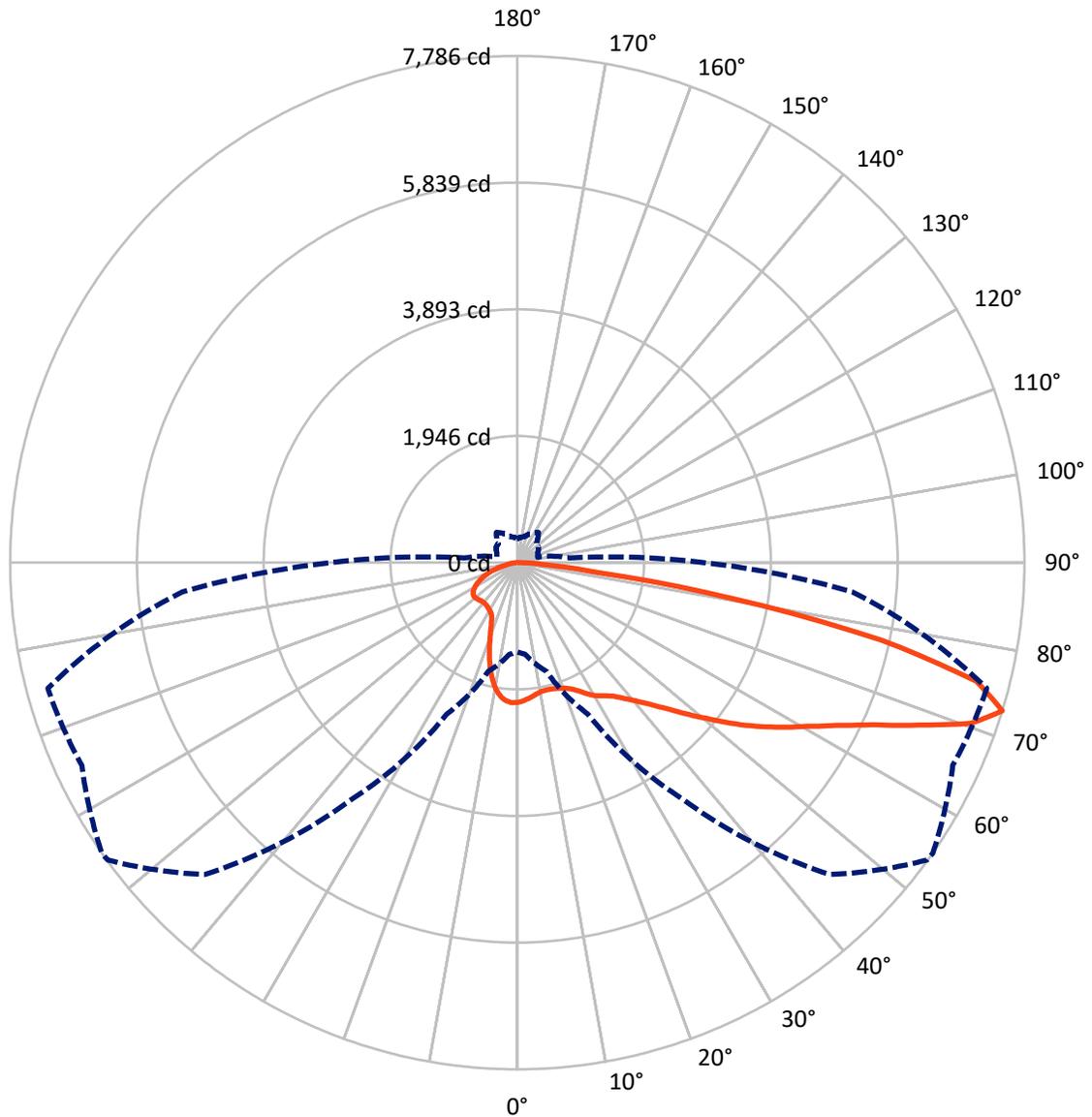
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	2262.2	0.0	2262.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9908.8	0.0	9908.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	12171.0	0.0	12171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	1.6
10°-20°	517.2	4.2
20°-30°	852.7	7.0
30°-40°	1261.3	10.4
40°-50°	1760.6	14.5
50°-60°	2292.3	18.8
60°-70°	2817.2	23.1
70°-80°	2208.3	18.1
80°-90°	267.2	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°	12171.0	100.0
0°-180°	12171.0	100.0



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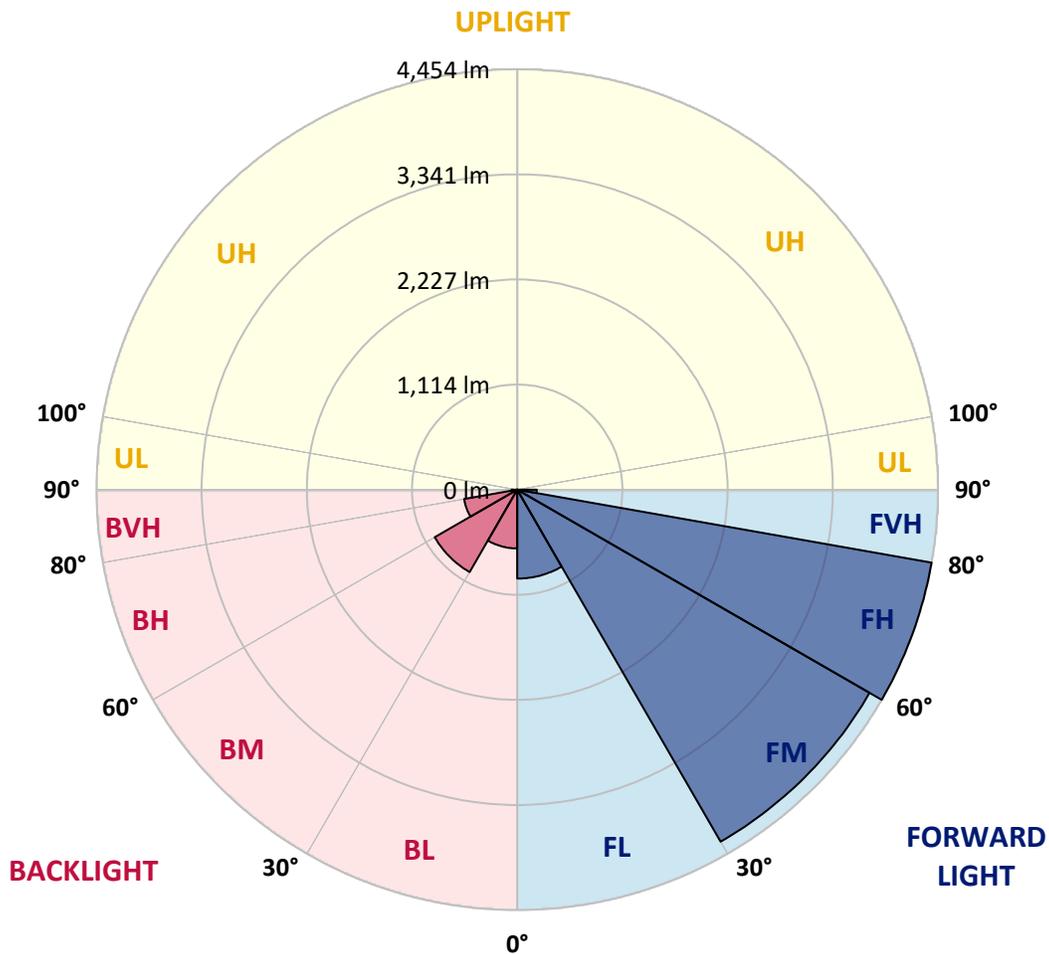
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.7	7.7			
FM	(30°-60°)	4306.3	35.4			
FH	(60°-80°)	4454.2	36.6			G2/5000
FVH	(80°-90°)	206.6	1.7			G2/225
BL	(0°-30°)	622.4	5.1	B2/1000		
BM	(30°-60°)	1007.8	8.3	B2/2500		
BH	(60°-80°)	571.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	60.6	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°	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2076.8	2071.9	2078.1	2086.7	2096.1	2108.9	2116.3	2119.6	2132.3	2137.2	2147.9
5°	1980.6	1978.2	1988.4	2003.2	2024.2	2053.8	2077.6	2082.2	2115.9	2139.7	2161.5
7.5°	1910.7	1910.7	1922.7	1940.3	1963.8	2003.6	2037.4	2043.5	2100.7	2152.0	2192.3
10°	1855.2	1857.3	1871.3	1892.2	1919.8	1962.1	2006.9	2013.9	2096.5	2180.8	2245.0
12.5°	1818.2	1823.2	1835.9	1854.8	1889.0	1940.3	1997.1	2006.5	2105.2	2221.9	2308.3
15°	1841.7	1849.9	1851.1	1858.9	1877.9	1933.8	2002.8	2012.7	2123.7	2263.9	2380.2
17.5°	1944.4	1947.3	1934.6	1918.1	1909.1	1944.9	2020.1	2030.4	2145.9	2305.4	2449.3
20°	2100.7	2099.0	2071.5	2027.1	1981.0	1986.8	2048.5	2059.1	2175.9	2342.0	2518.3
22.5°	2298.0	2292.2	2249.9	2168.1	2089.6	2056.7	2098.2	2107.2	2221.1	2394.2	2592.3
25°	2537.2	2524.5	2468.6	2358.8	2243.3	2158.6	2173.0	2181.6	2286.9	2452.6	2660.2
27.5°	2789.6	2776.9	2705.8	2573.0	2419.3	2287.3	2276.2	2283.6	2361.7	2495.7	2710.3
30°	3053.6	3040.0	2975.0	2826.2	2605.9	2420.5	2372.4	2375.3	2414.3	2519.1	2751.4
32.5°	3318.7	3306.0	3233.2	3060.6	2808.6	2563.5	2441.9	2438.2	2446.0	2543.4	2797.9
35°	3587.6	3592.5	3507.4	3316.2	3033.0	2722.6	2524.1	2516.3	2499.0	2593.1	2863.6
37.5°	3875.3	3872.0	3761.9	3562.1	3267.7	2895.3	2642.1	2640.8	2581.2	2687.3	2966.8
40°	4067.7	4069.8	4002.8	3813.7	3504.9	3086.5	2793.3	2790.5	2712.4	2828.3	3102.1
42.5°	4142.9	4156.5	4173.8	4053.7	3753.2	3308.0	2973.8	2969.7	2895.3	3030.5	3261.2
45°	4148.3	4175.4	4282.3	4267.1	4004.8	3561.7	3204.4	3192.9	3139.5	3299.4	3451.1
47.5°	4102.2	4130.2	4307.8	4394.1	4229.7	3829.3	3474.1	3465.1	3419.0	3635.7	3656.6
50°	4001.5	4028.3	4255.2	4456.2	4414.7	4086.6	3784.9	3761.0	3736.4	4024.1	3891.8
52.5°	3812.8	3864.2	4184.9	4471.0	4525.3	4315.2	4111.7	4096.1	4109.6	4434.0	4127.3
55°	3366.0	3423.5	4003.6	4458.7	4607.1	4507.2	4438.5	4437.7	4508.0	4864.0	4380.1
57.5°	3115.6	3156.3	3634.4	4437.7	4704.1	4697.9	4762.0	4769.9	4906.7	5332.2	4644.9
60°	2974.2	3017.0	3447.4	4360.0	4854.5	4944.6	5092.1	5107.8	5312.1	5850.6	4963.5
62.5°	2845.6	2892.4	3331.5	4201.7	5031.7	5297.3	5487.6	5501.6	5741.3	6383.4	5271.4
65°	2625.6	2678.7	3161.7	4097.7	5192.9	5757.3	5990.4	5999.8	6234.2	6941.6	5506.9
67.5°	2314.8	2363.3	2841.4	3867.9	5312.1	6316.0	6658.8	6664.2	6722.9	7335.9	5627.4
70°	1951.8	1970.3	2385.1	3393.5	5171.1	6838.5	7391.4	7392.6	7168.6	7588.3	5607.7
72.5°	1371.4	1415.0	1731.5	2568.9	4443.9	6774.7	7771.6	7785.6	7375.7	7460.8	5159.6
75°	841.1	887.1	1086.1	1556.8	2819.2	5328.1	7180.5	7277.5	6987.3	6652.2	4214.9
77.5°	562.4	579.6	708.7	907.7	1277.3	3065.5	5520.5	5703.0	5804.6	4851.3	2695.5
80°	313.7	346.5	469.9	564.0	568.1	1218.1	3310.1	3352.8	3229.5	1931.7	831.6
82.5°	166.1	184.2	313.7	331.3	310.0	407.8	1233.7	1234.9	1031.8	518.0	247.1
85°	128.7	143.9	215.0	202.3	158.3	180.9	407.0	429.2	351.1	212.1	80.6
87.5°	64.1	79.8	145.9	128.3	62.1	51.8	145.5	155.4	138.5	83.0	29.2
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°	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2152.0	2155.7	2160.3	2155.3	2153.7	2147.1	2136.0	2133.5	2127.8	2128.2	2131.5
5°	2171.0	2177.1	2174.7	2155.7	2133.1	2101.5	2068.6	2040.6	2022.1	2020.9	2019.7
7.5°	2207.1	2211.2	2191.9	2138.1	2074.8	2001.6	1932.5	1872.1	1835.5	1826.5	1824.4
10°	2263.9	2263.0	2210.0	2101.5	1975.3	1844.6	1733.6	1649.7	1600.8	1586.4	1582.7
12.5°	2327.2	2317.7	2216.2	2034.9	1834.7	1653.4	1512.8	1419.5	1368.5	1352.1	1348.0
15°	2392.5	2369.1	2201.0	1935.4	1662.0	1447.4	1299.9	1213.5	1186.0	1176.9	1175.3
17.5°	2453.4	2408.2	2157.4	1800.6	1465.1	1242.3	1127.2	1092.7	1099.2	1111.2	1111.6
20°	2513.0	2434.5	2087.5	1630.4	1257.5	1073.4	1034.3	1059.8	1091.0	1115.3	1118.6
22.5°	2571.8	2453.0	1997.5	1433.9	1071.7	978.4	1005.9	1052.4	1088.2	1114.5	1119.0
25°	2621.1	2457.5	1873.3	1224.2	942.6	942.6	992.4	1036.4	1071.7	1097.6	1102.1
27.5°	2639.2	2427.1	1698.2	1030.2	877.7	926.2	973.5	1010.0	1040.1	1067.6	1072.5
30°	2646.2	2370.7	1495.9	874.4	851.0	908.5	948.0	979.2	1007.6	1033.5	1038.0
32.5°	2647.4	2302.9	1281.4	786.0	832.5	890.0	916.3	943.9	974.3	984.6	986.2
35°	2655.2	2222.8	1055.3	740.8	815.2	872.7	893.7	913.4	864.1	867.8	871.1
37.5°	2677.8	2143.4	866.2	715.3	804.1	863.7	888.8	817.2	778.6	769.6	768.3
40°	2720.2	2058.7	726.0	694.7	800.0	868.2	857.1	763.0	696.4	646.6	639.2
42.5°	2779.0	1967.5	636.4	681.2	802.9	890.0	813.1	710.8	600.2	568.1	564.0
45°	2845.1	1871.7	587.9	671.7	812.7	906.9	804.1	641.3	555.4	531.1	529.1
47.5°	2909.3	1754.5	562.8	667.6	826.3	893.3	765.9	619.9	534.0	521.3	522.5
50°	2982.9	1648.9	547.6	663.1	838.2	884.7	722.7	608.8	525.8	541.4	557.8
52.5°	3044.9	1539.5	534.0	654.0	842.7	869.5	711.6	610.9	525.8	555.8	571.4
55°	3118.5	1456.9	518.4	635.1	834.1	826.3	703.8	623.2	531.9	513.0	514.7
57.5°	3213.5	1429.8	501.1	605.5	805.3	763.4	700.1	635.1	528.2	516.3	520.4
60°	3345.0	1458.5	494.1	566.9	760.5	714.1	700.5	629.0	502.3	481.8	482.2
62.5°	3470.4	1490.6	493.7	542.6	705.4	670.1	691.0	608.8	489.2	477.3	481.8
65°	3511.5	1458.1	474.0	515.5	643.4	617.5	673.8	587.4	479.3	461.2	460.4
67.5°	3456.4	1357.4	434.1	471.5	572.2	556.2	651.2	562.0	463.7	448.9	446.4
70°	3292.8	1132.5	384.8	413.6	491.3	487.1	615.4	532.4	442.7	430.0	419.3
72.5°	2852.5	807.0	324.3	344.1	400.0	413.1	566.1	493.7	413.1	385.6	369.2
75°	2342.8	597.3	266.4	270.5	303.8	339.6	498.2	448.5	378.2	331.3	318.6
77.5°	1434.7	365.5	212.1	213.8	217.9	270.9	410.3	397.9	333.8	276.3	267.2
80°	464.5	199.4	153.3	161.1	148.8	198.6	317.4	338.7	286.5	231.0	221.2
82.5°	176.8	116.3	103.6	108.9	103.2	133.2	231.4	271.3	234.7	189.9	154.6
85°	85.5	65.8	61.3	68.7	63.7	68.2	148.0	199.8	178.0	123.7	115.1
87.5°	30.4	29.2	23.4	31.7	27.1	24.3	45.2	100.7	117.6	85.1	76.1
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)