

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: P1208987

Luminaire Tested: UPW-SA2-090-727-U-SL2

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-SL2
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 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: 9566 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

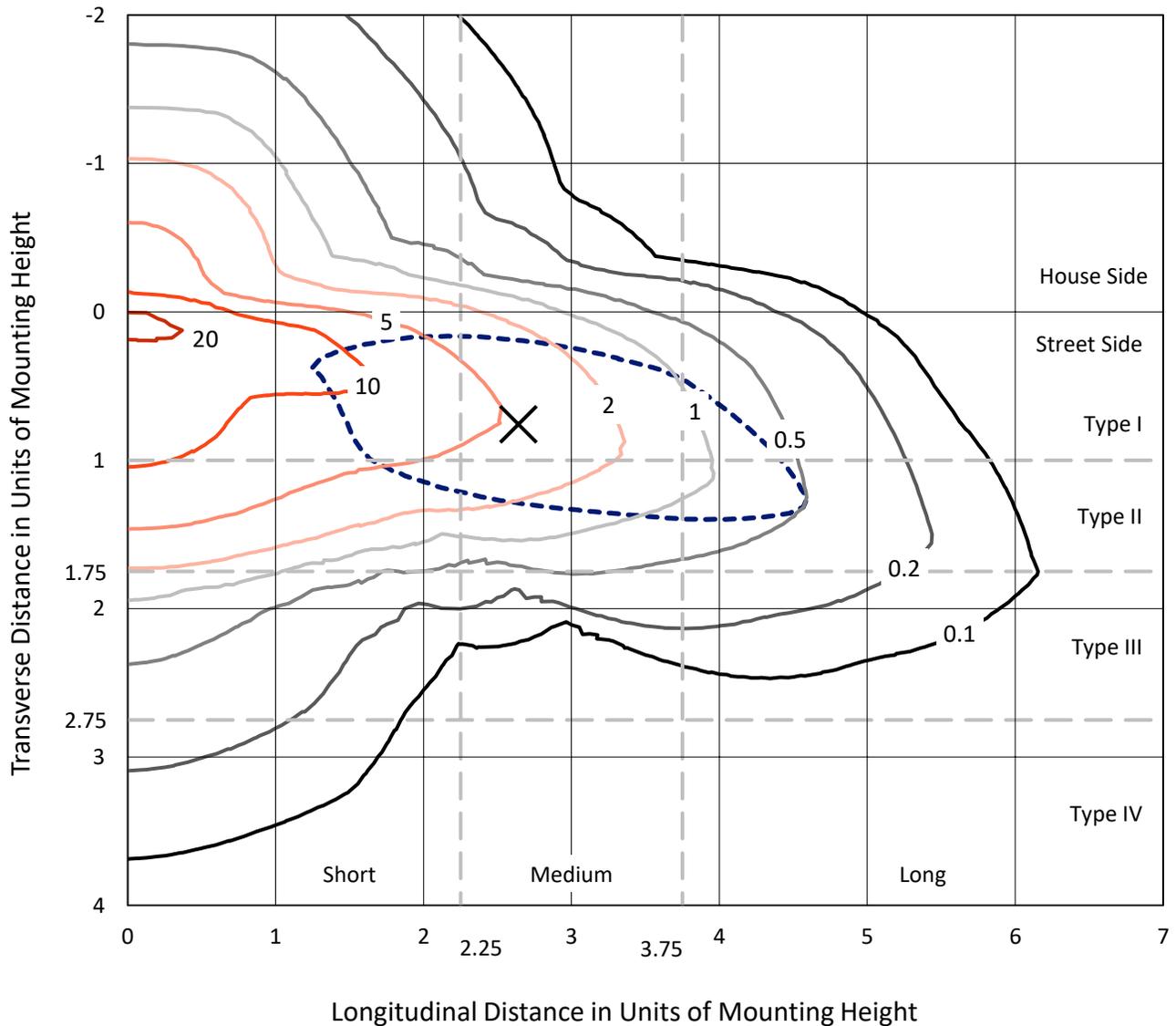


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

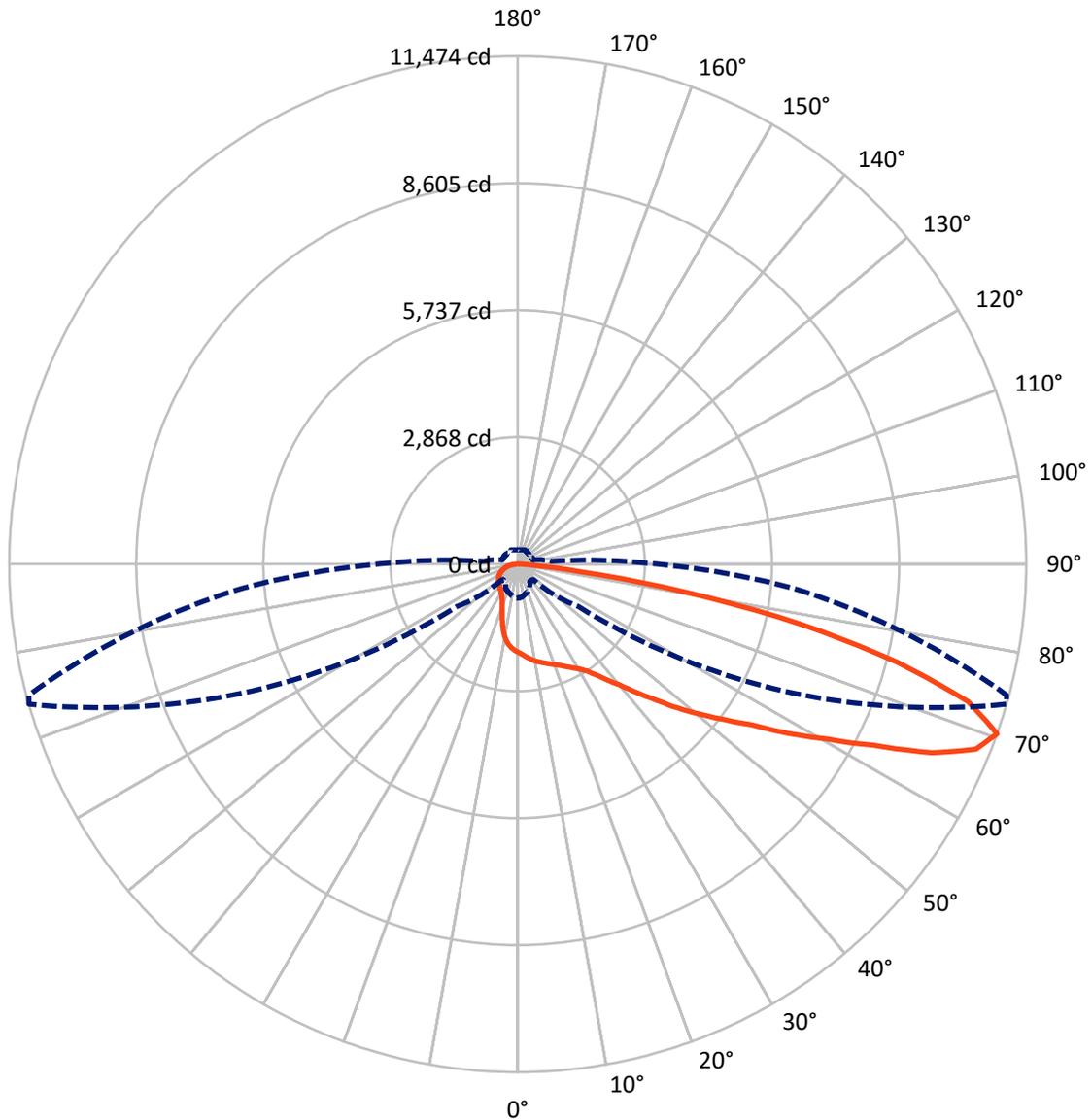


Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Medium - N/A

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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
House Side	Lumens	1750.9	0.0	1750.9
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	7815.1	0.0	7815.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	9566.0	0.0	9566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	1.8
10°-20°	460.2	4.8
20°-30°	728.8	7.6
30°-40°	1085.9	11.4
40°-50°	1497.4	15.7
50°-60°	2008.2	21.0
60°-70°	2084.1	21.8
70°-80°	1318.8	13.8
80°-90°	207.6	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°	9566.0	100.0
0°-180°	9566.0	100.0



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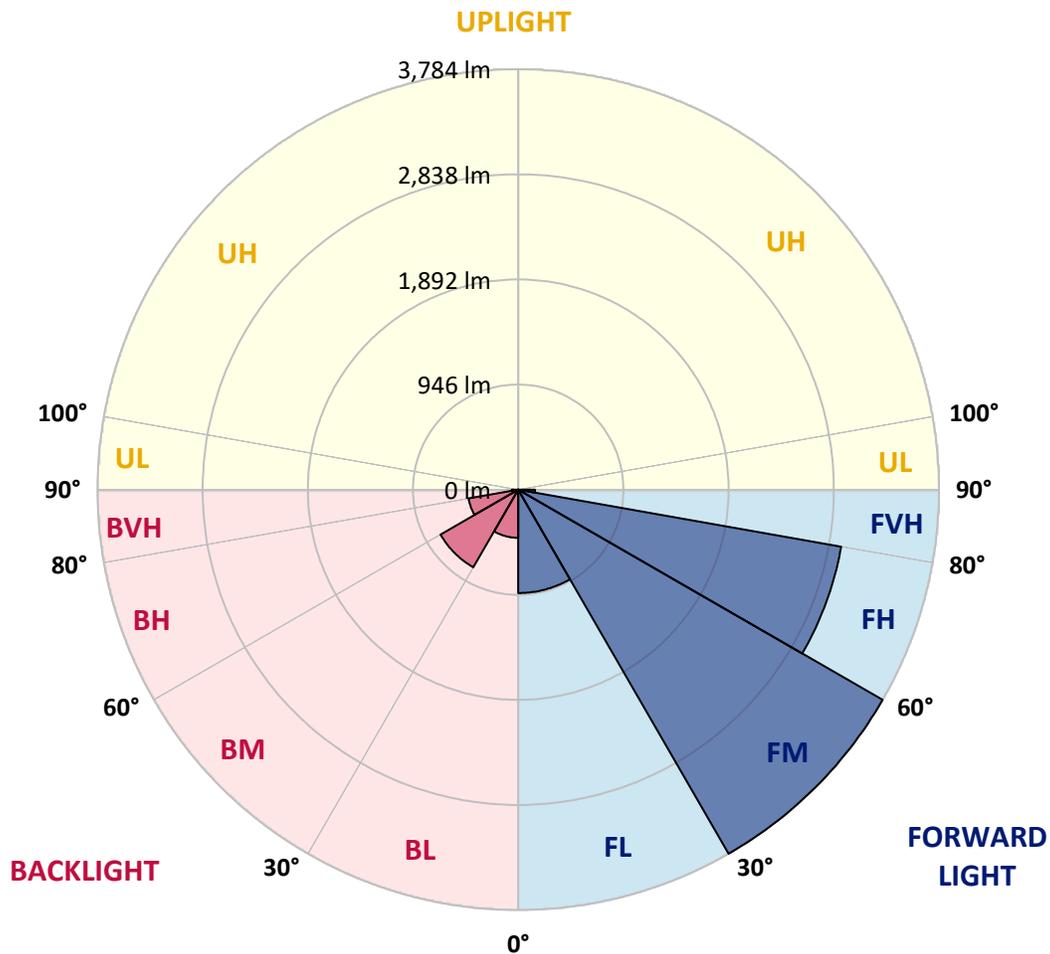
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.6	9.7			
FM (30°-60°)	3784.2	39.6			
FH (60°-80°)	2949.5	30.8			G2/5000
FVH (80°-90°)	150.9	1.6			G2/225
BL (0°-30°)	433.4	4.5	B1/500		
BM (30°-60°)	807.4	8.4	B1/1000		
BH (60°-80°)	453.5	4.7	B1/500		G1/500
BVH (80°-90°)	56.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0
2.5°	2130.1	2126.9	2119.4	2119.4	2116.2	2108.7	2087.3	2064.8	2043.4	2041.2	2013.4
5°	2217.8	2212.5	2211.4	2211.4	2207.1	2199.6	2170.7	2139.7	2108.7	2102.2	2051.9
7.5°	2259.6	2255.3	2256.4	2261.7	2270.3	2263.9	2238.2	2211.4	2169.7	2164.3	2089.4
10°	2237.1	2240.3	2253.2	2283.1	2304.5	2316.3	2294.9	2270.3	2227.5	2221.0	2119.4
12.5°	2094.7	2104.4	2145.1	2222.1	2303.5	2348.4	2347.4	2321.7	2270.3	2264.9	2142.9
15°	1879.6	1867.8	1942.7	2065.8	2213.6	2340.9	2382.7	2370.9	2319.5	2312.0	2170.7
17.5°	1773.6	1774.7	1807.9	1883.9	2046.6	2279.9	2401.9	2420.1	2372.0	2362.3	2201.8
20°	1816.4	1815.4	1818.6	1844.3	1922.4	2155.8	2403.0	2473.7	2423.4	2416.9	2229.6
22.5°	1938.5	1934.2	1924.6	1903.1	1905.3	2045.5	2388.0	2532.5	2488.6	2475.8	2248.9
25°	2108.7	2098.0	2066.9	2018.7	1967.4	2012.3	2349.5	2601.0	2563.6	2549.7	2269.2
27.5°	2302.4	2300.3	2267.1	2175.0	2077.6	2054.1	2305.6	2676.0	2652.4	2633.1	2291.7
30°	2502.6	2490.8	2459.7	2361.3	2238.2	2145.1	2292.8	2758.4	2746.6	2722.0	2309.9
32.5°	2611.7	2606.4	2586.1	2526.1	2419.1	2276.7	2330.2	2842.9	2881.5	2863.3	2349.5
35°	2698.4	2688.8	2667.4	2642.8	2588.2	2450.1	2416.9	2944.6	3082.7	3050.6	2434.1
37.5°	2780.9	2770.2	2755.2	2731.6	2696.3	2616.0	2543.2	3083.8	3337.5	3315.0	2562.5
40°	2872.9	2861.1	2841.9	2825.8	2776.6	2752.0	2662.0	3216.5	3610.4	3599.7	2716.6
42.5°	2942.5	2929.6	2920.0	2909.3	2855.8	2809.8	2755.2	3342.8	3978.6	3951.9	2921.1
45°	2993.9	2986.4	2986.4	2973.5	2938.2	2811.9	2820.5	3511.9	4374.7	4366.1	3203.7
47.5°	3049.5	3039.9	3045.2	3033.5	3022.8	2814.0	2900.7	3737.8	4851.0	4843.5	3519.4
50°	3115.9	3106.3	3127.7	3110.5	3114.8	2878.3	3015.3	4020.4	5322.0	5303.8	3855.5
52.5°	3124.5	3122.3	3175.8	3214.4	3245.4	3024.9	3209.0	4357.5	5836.8	5836.8	4247.3
55°	2951.1	2946.8	3050.6	3214.4	3388.8	3306.4	3568.7	4885.2	6406.3	6421.2	4596.2
57.5°	2396.6	2416.9	2592.5	2914.7	3381.3	3707.8	4100.6	5527.5	7209.0	7159.8	4938.8
60°	1524.2	1554.2	1694.4	2137.6	2876.1	3775.2	4673.3	6343.1	8023.6	7929.4	5391.5
62.5°	1007.2	981.5	983.7	1192.4	1850.7	3172.6	4785.7	7309.7	9006.2	8937.7	5794.0
65°	895.9	877.7	786.7	732.1	899.1	1981.3	4069.6	8006.5	10269.3	10077.7	6102.3
67.5°	849.9	831.7	747.1	662.6	566.2	1012.6	2892.2	7878.0	11151.3	11030.3	6330.3
70°	769.6	758.9	690.4	625.1	473.1	489.2	1668.7	6915.8	11473.5	11415.7	6226.4
72.5°	669.0	656.1	610.1	565.2	415.3	360.7	800.6	5482.5	10626.8	10622.5	5786.5
75°	548.0	537.3	499.9	484.9	351.1	295.4	454.9	3850.2	8853.2	8806.1	5143.2
77.5°	448.5	433.5	407.8	396.0	291.1	237.6	320.0	2687.7	6533.6	6410.5	3599.7
80°	325.4	315.8	291.1	319.0	230.1	184.1	237.6	1671.9	3839.5	3589.0	1348.7
82.5°	198.0	178.8	201.2	244.0	170.2	131.7	174.5	932.3	1376.5	1209.5	402.5
85°	92.1	94.2	117.7	156.3	101.7	77.1	109.2	407.8	399.3	382.1	169.1
87.5°	15.0	16.1	45.0	68.5	42.8	25.7	43.9	89.9	150.9	155.2	72.8
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°	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0	1992.0
2.5°	1996.3	1979.1	1948.1	1913.8	1875.3	1840.0	1825.0	1775.8	1764.0	1760.8	1736.2
5°	2016.6	1979.1	1897.8	1801.5	1689.1	1587.4	1475.0	1385.1	1334.8	1330.5	1336.9
7.5°	2036.9	1978.1	1829.3	1634.5	1435.4	1238.4	1118.6	1047.9	998.7	986.9	990.1
10°	2047.6	1963.1	1724.4	1424.7	1149.6	1006.2	937.7	913.0	905.5	899.1	899.1
12.5°	2049.8	1929.9	1585.2	1198.8	981.5	912.0	892.7	886.3	885.2	884.1	882.0
15°	2051.9	1888.2	1407.6	1024.4	905.5	883.1	875.6	874.5	876.6	875.6	875.6
17.5°	2049.8	1831.4	1235.2	923.7	877.7	869.2	864.9	863.8	867.0	865.9	864.9
20°	2042.3	1758.6	1067.2	872.4	858.4	856.3	851.0	846.7	851.0	852.0	851.0
22.5°	2013.4	1651.6	946.2	840.3	840.3	840.3	833.8	828.5	836.0	838.1	839.2
25°	1968.4	1523.2	856.3	813.5	818.8	816.7	816.7	815.6	823.1	825.3	826.3
27.5°	1921.3	1389.4	793.2	784.6	793.2	798.5	808.1	809.2	809.2	807.1	806.0
30°	1861.4	1243.8	752.5	758.9	770.7	789.9	807.1	804.9	797.4	789.9	791.0
32.5°	1813.2	1126.0	712.9	736.4	757.8	785.7	800.6	803.9	802.8	789.9	789.9
35°	1795.0	1031.9	686.1	717.2	749.3	775.0	781.4	795.3	793.2	777.1	776.0
37.5°	1806.8	955.9	662.6	696.8	736.4	749.3	763.2	766.4	739.6	722.5	718.2
40°	1832.5	900.2	641.2	671.1	715.0	725.7	745.0	716.1	693.6	679.7	681.8
42.5°	1904.2	876.6	621.9	642.2	682.9	707.5	700.0	691.5	660.4	637.9	635.8
45°	2017.7	875.6	604.8	612.3	646.5	672.2	671.1	661.5	628.3	604.8	601.6
47.5°	2172.9	897.0	586.6	584.4	612.3	628.3	643.3	628.3	594.1	567.3	564.1
50°	2358.1	952.6	569.4	555.5	574.8	599.4	606.9	596.2	564.1	538.4	535.2
52.5°	2580.7	1029.7	554.5	529.8	535.2	569.4	586.6	576.9	540.5	512.7	508.4
55°	2796.9	1102.5	534.1	503.1	494.5	541.6	568.4	567.3	513.8	484.9	482.7
57.5°	3018.5	1171.0	511.6	480.6	466.7	511.6	549.1	553.4	486.0	454.9	454.9
60°	3243.3	1219.2	483.8	457.1	449.6	478.5	520.2	521.3	461.3	437.8	439.9
62.5°	3427.4	1190.3	456.0	434.6	429.2	446.4	488.1	497.7	459.2	433.5	435.6
65°	3505.5	1093.9	424.9	413.2	404.6	411.0	449.6	461.3	420.7	391.8	395.0
67.5°	3455.2	953.7	393.9	388.5	376.8	374.6	399.3	406.7	376.8	358.6	356.4
70°	3156.6	761.0	356.4	356.4	345.7	336.1	348.9	355.4	331.8	321.1	323.3
72.5°	2731.6	618.7	320.0	324.3	309.3	296.5	304.0	307.2	293.3	287.9	285.8
75°	2363.4	517.0	283.7	290.1	274.0	253.7	262.2	262.2	250.5	249.4	248.3
77.5°	1723.3	388.5	244.0	251.5	238.7	213.0	215.1	216.2	211.9	211.9	213.0
80°	737.5	237.6	199.1	210.9	198.0	167.0	173.4	173.4	184.1	210.9	206.6
82.5°	245.1	141.3	150.9	165.9	152.0	124.2	131.7	141.3	182.0	174.5	165.9
85°	104.9	78.1	96.3	104.9	97.4	74.9	85.6	147.7	134.9	130.6	131.7
87.5°	35.3	33.2	40.7	48.2	34.3	23.5	43.9	89.9	87.8	66.4	64.2
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)