

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: P1209409

Luminaire Tested: UPW-SA2-110-827-U-T3R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209409
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-SA2-110-827-U-T3R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 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: 11096 lumens
Efficiency: N/A
Efficacy: 100.0 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): 111
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

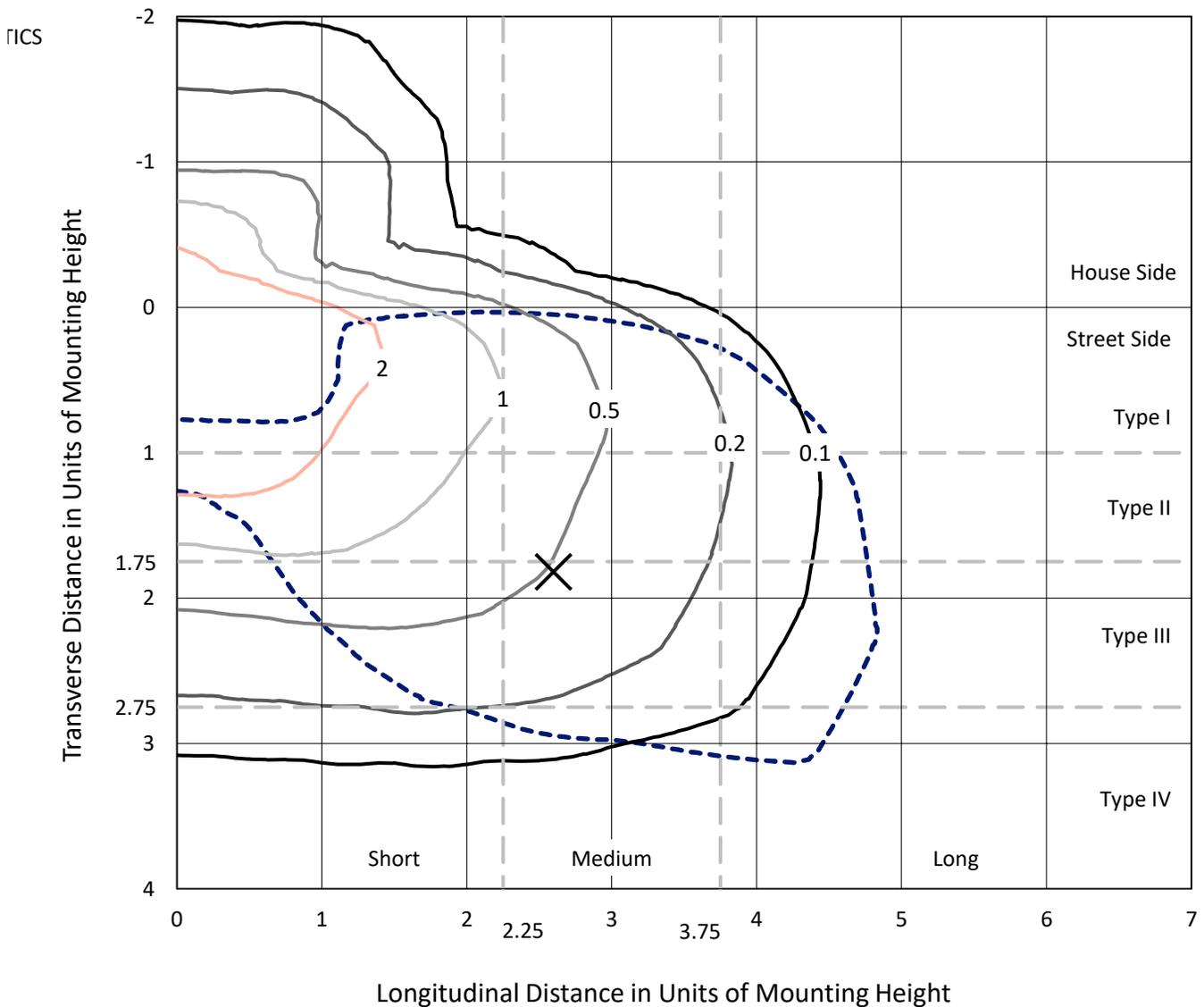


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Iso-Footcandle Lines of Horizontal Illumination

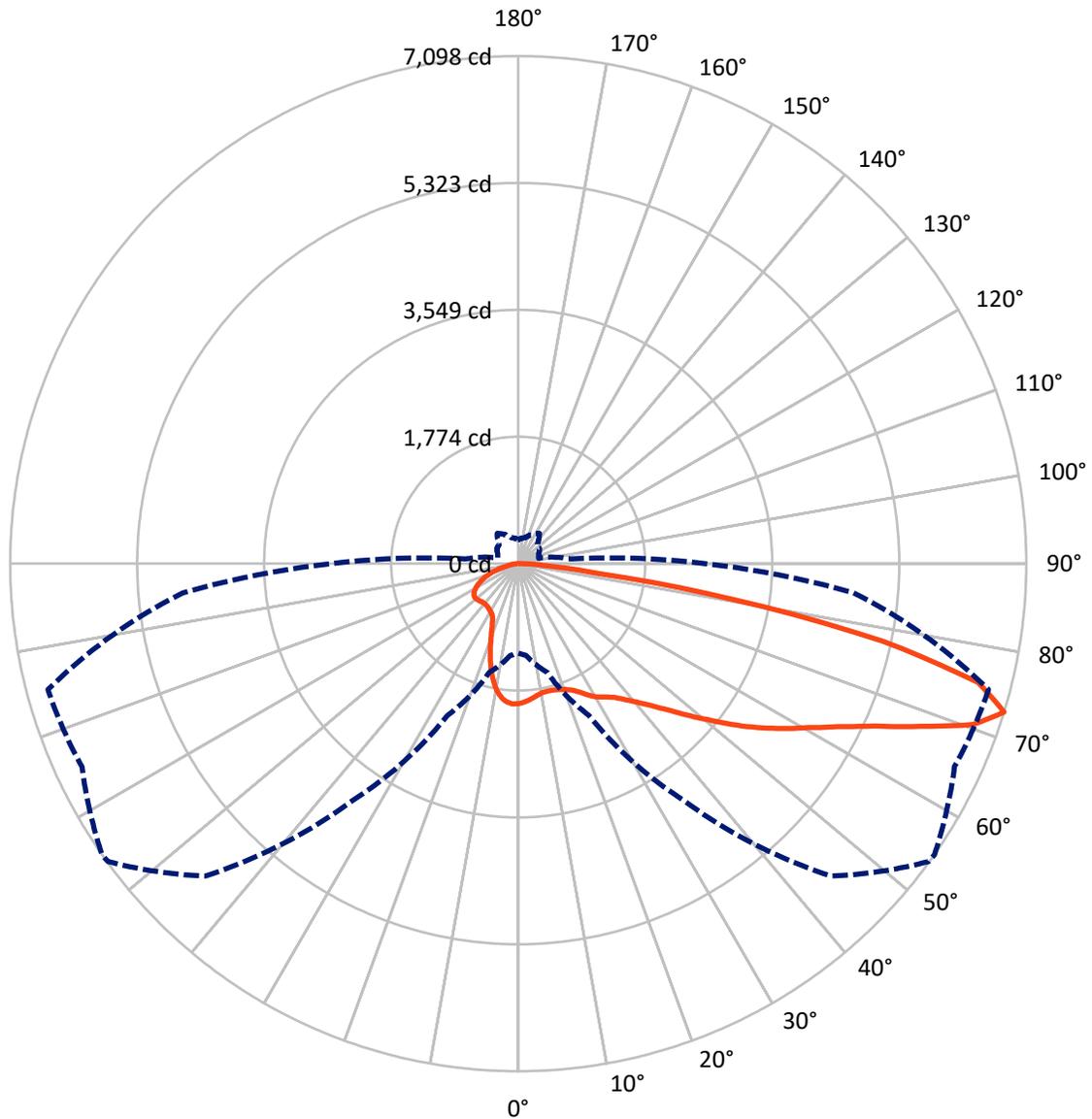
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	2062.4	0.0	2062.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9033.6	0.0	9033.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	11096.0	0.0	11096.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.6
10°-20°	471.5	4.2
20°-30°	777.4	7.0
30°-40°	1149.9	10.4
40°-50°	1605.1	14.5
50°-60°	2089.8	18.8
60°-70°	2568.3	23.1
70°-80°	2013.3	18.1
80°-90°	243.6	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°	11096.0	100.0
0°-180°	11096.0	100.0



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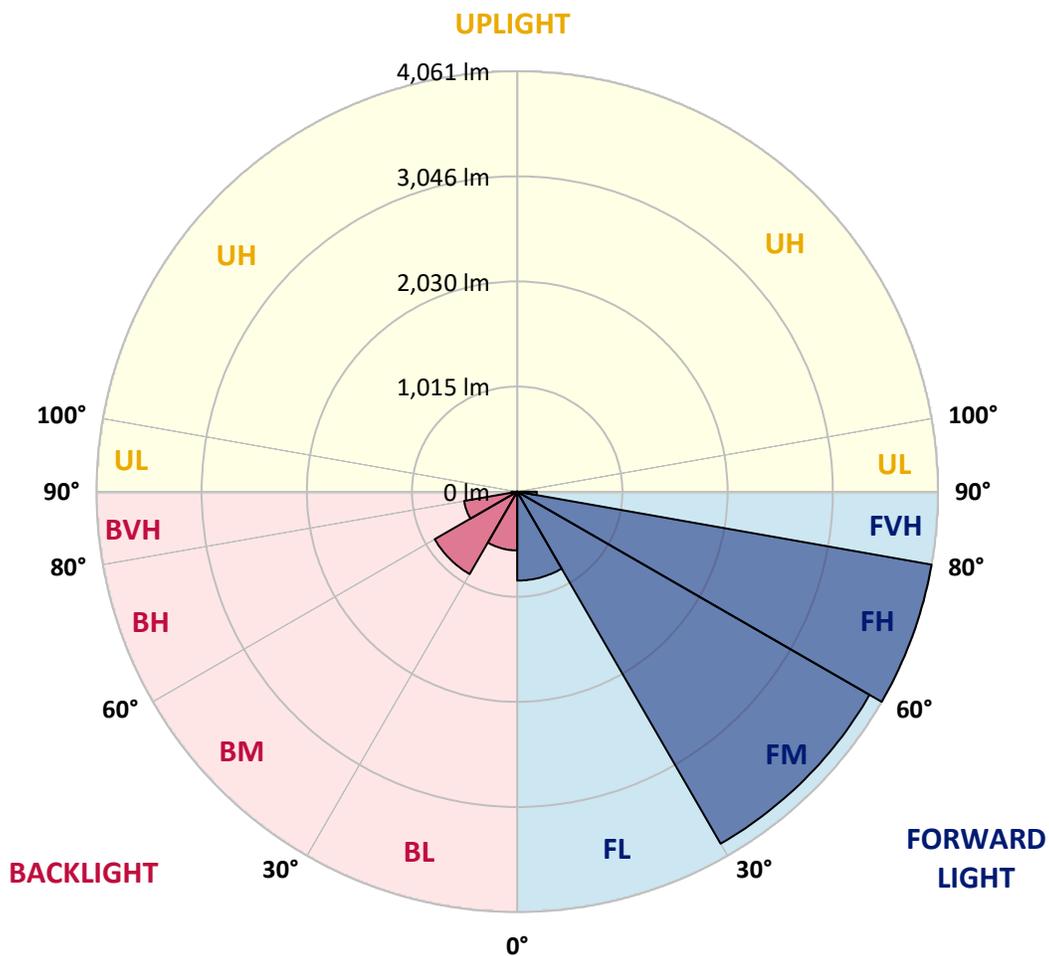
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.5	7.7			
FM	(30°-60°)	3926.0	35.4			
FH	(60°-80°)	4060.8	36.6			G2/5000
FVH	(80°-90°)	188.4	1.7			G2/225
BL	(0°-30°)	567.4	5.1	B2/1000		
BM	(30°-60°)	918.8	8.3	B1/1000		
BH	(60°-80°)	520.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	55.3	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°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1
2.5°	1893.4	1888.9	1894.5	1902.4	1911.0	1922.6	1929.4	1932.4	1944.0	1948.5	1958.2
5°	1805.7	1803.4	1812.8	1826.3	1845.4	1872.4	1894.1	1898.3	1929.0	1950.7	1970.6
7.5°	1742.0	1742.0	1752.8	1769.0	1790.3	1826.7	1857.4	1863.0	1915.1	1962.0	1998.7
10°	1691.4	1693.3	1706.0	1725.1	1750.2	1788.8	1829.7	1836.0	1911.4	1988.2	2046.7
12.5°	1657.6	1662.1	1673.8	1691.0	1722.1	1769.0	1820.7	1829.3	1919.2	2025.7	2104.4
15°	1679.0	1686.5	1687.6	1694.8	1712.0	1763.0	1825.9	1834.9	1936.1	2063.9	2170.0
17.5°	1772.7	1775.3	1763.7	1748.7	1740.5	1773.1	1841.7	1851.0	1956.3	2101.8	2232.9
20°	1915.1	1913.6	1888.5	1848.0	1806.1	1811.3	1867.5	1877.3	1983.7	2135.1	2295.9
22.5°	2095.0	2089.8	2051.2	1976.6	1905.0	1875.0	1912.9	1921.1	2024.9	2182.7	2363.4
25°	2313.1	2301.5	2250.5	2150.5	2045.2	1968.0	1981.1	1989.0	2084.9	2235.9	2425.2
27.5°	2543.2	2531.6	2466.8	2345.7	2205.6	2085.3	2075.2	2081.9	2153.1	2275.3	2470.9
30°	2783.9	2771.5	2712.3	2576.6	2375.7	2206.7	2162.8	2165.5	2201.1	2296.6	2508.4
32.5°	3025.6	3014.0	2947.6	2790.2	2560.5	2337.1	2226.2	2222.8	2229.9	2318.8	2550.7
35°	3270.7	3275.2	3197.6	3023.3	2765.1	2482.2	2301.1	2294.0	2278.3	2364.1	2610.7
37.5°	3533.0	3530.0	3429.6	3247.5	2979.1	2639.6	2408.7	2407.6	2353.2	2449.9	2704.8
40°	3708.4	3710.3	3649.2	3476.8	3195.4	2813.8	2546.6	2544.0	2472.8	2578.5	2828.1
42.5°	3777.0	3789.4	3805.1	3695.7	3421.7	3015.8	2711.2	2707.4	2639.6	2762.9	2973.1
45°	3781.9	3806.6	3904.1	3890.2	3651.1	3247.1	2921.4	2910.9	2862.2	3008.0	3146.3
47.5°	3739.9	3765.4	3927.3	4006.0	3856.1	3491.1	3167.3	3159.0	3117.0	3314.5	3333.7
50°	3648.1	3672.5	3879.3	4062.6	4024.8	3725.7	3450.6	3428.9	3406.4	3668.7	3548.0
52.5°	3476.1	3522.9	3815.2	4076.1	4125.6	3934.1	3748.5	3734.3	3746.7	4042.4	3762.8
55°	3068.7	3121.2	3650.0	4064.9	4200.1	4109.1	4046.5	4045.7	4109.8	4434.4	3993.3
57.5°	2840.4	2877.6	3313.4	4045.7	4288.6	4283.0	4341.4	4348.6	4473.4	4861.3	4234.6
60°	2711.5	2750.5	3142.9	3974.9	4425.8	4507.8	4642.4	4656.6	4842.9	5333.9	4525.1
62.5°	2594.2	2636.9	3037.2	3830.6	4587.3	4829.4	5002.9	5015.7	5234.2	5819.6	4805.8
65°	2393.7	2442.1	2882.4	3735.8	4734.2	5248.8	5461.3	5469.9	5683.5	6328.5	5020.5
67.5°	2110.4	2154.6	2590.5	3526.3	4842.9	5758.1	6070.7	6075.5	6129.1	6687.9	5130.3
70°	1779.5	1796.3	2174.5	3093.8	4714.3	6234.4	6738.5	6739.6	6535.4	6918.0	5112.4
72.5°	1250.3	1290.0	1578.6	2342.0	4051.4	6176.4	7085.2	7097.9	6724.3	6801.9	4703.9
75°	766.8	808.8	990.2	1419.3	2570.2	4857.5	6546.3	6634.7	6370.1	6064.7	3842.6
77.5°	512.7	528.4	646.1	827.5	1164.4	2794.7	5032.9	5199.3	5291.9	4422.8	2457.4
80°	286.0	315.9	428.4	514.2	517.9	1110.5	3017.7	3056.7	2944.3	1761.1	758.2
82.5°	151.4	167.9	286.0	302.1	282.6	371.8	1124.7	1125.8	940.7	472.2	225.2
85°	117.3	131.2	196.0	184.4	144.3	164.9	371.0	391.3	320.1	193.4	73.5
87.5°	58.5	72.7	133.0	116.9	56.6	47.2	132.7	141.7	126.3	75.7	26.6
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°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1
2.5°	1962.0	1965.3	1969.5	1965.0	1963.5	1957.5	1947.4	1945.1	1939.9	1940.2	1943.2
5°	1979.2	1984.8	1982.6	1965.3	1944.7	1915.9	1885.9	1860.4	1843.5	1842.4	1841.3
7.5°	2012.2	2015.9	1998.3	1949.2	1891.5	1824.8	1761.8	1706.7	1673.4	1665.1	1663.3
10°	2063.9	2063.2	2014.8	1915.9	1800.8	1681.6	1580.4	1504.0	1459.4	1446.3	1442.9
12.5°	2121.6	2113.0	2020.4	1855.2	1672.6	1507.4	1379.2	1294.1	1247.6	1232.6	1228.9
15°	2181.2	2159.9	2006.6	1764.5	1515.2	1319.6	1185.1	1106.3	1081.2	1073.0	1071.5
17.5°	2236.7	2195.5	1966.8	1641.5	1335.7	1132.6	1027.6	996.2	1002.2	1013.0	1013.4
20°	2291.0	2219.4	1903.1	1486.4	1146.4	978.5	942.9	966.2	994.7	1016.8	1019.8
22.5°	2344.6	2236.3	1821.1	1307.2	977.0	892.0	917.1	959.4	992.0	1016.0	1020.1
25°	2389.6	2240.4	1707.9	1116.1	859.4	859.4	904.7	944.8	977.0	1000.7	1004.8
27.5°	2406.1	2212.7	1548.2	939.2	800.2	844.4	887.5	920.8	948.2	973.3	977.8
30°	2412.5	2161.4	1363.8	797.2	775.8	828.3	864.2	892.7	918.6	942.2	946.3
32.5°	2413.6	2099.5	1168.2	716.6	758.9	811.4	835.4	860.5	888.2	897.6	899.1
35°	2420.7	2026.4	962.1	675.4	743.2	795.7	814.8	832.8	787.8	791.2	794.2
37.5°	2441.3	1954.1	789.7	652.1	733.1	787.4	810.3	745.1	709.8	701.6	700.5
40°	2479.9	1876.9	661.9	633.4	729.3	791.5	781.4	695.6	634.9	589.5	582.8
42.5°	2533.5	1793.7	580.2	621.0	731.9	811.4	741.3	648.0	547.2	517.9	514.2
45°	2593.8	1706.4	535.9	612.4	740.9	826.8	733.1	584.7	506.3	484.2	482.3
47.5°	2652.3	1599.6	513.1	608.6	753.3	814.4	698.2	565.2	486.8	475.2	476.3
50°	2719.4	1503.2	499.2	604.5	764.2	806.5	658.9	555.0	479.3	493.6	508.6
52.5°	2776.0	1403.5	486.8	596.3	768.3	792.7	648.7	556.9	479.3	506.7	520.9
55°	2843.1	1328.2	472.6	579.0	760.4	753.3	641.6	568.2	485.0	467.7	469.2
57.5°	2929.6	1303.5	456.9	552.0	734.2	696.0	638.2	579.0	481.6	470.7	474.5
60°	3049.6	1329.7	450.5	516.8	693.3	651.0	638.6	573.4	458.0	439.2	439.6
62.5°	3163.9	1358.9	450.1	494.7	643.1	610.9	630.0	555.0	446.0	435.1	439.2
65°	3201.4	1329.3	432.1	470.0	586.5	562.9	614.3	535.6	437.0	420.5	419.8
67.5°	3151.1	1237.5	395.8	429.9	521.7	507.1	593.6	512.3	422.8	409.3	407.0
70°	3002.0	1032.5	350.8	377.0	447.9	444.1	561.0	485.3	403.6	392.0	382.3
72.5°	2600.6	735.7	295.7	313.7	364.7	376.7	516.1	450.1	376.7	351.5	336.6
75°	2135.9	544.6	242.9	246.6	277.0	309.6	454.2	408.9	344.8	302.1	290.5
77.5°	1308.0	333.2	193.4	194.9	198.6	247.0	374.0	362.8	304.3	251.9	243.6
80°	423.5	181.8	139.8	146.9	135.7	181.0	289.3	308.8	261.2	210.6	201.6
82.5°	161.2	106.1	94.4	99.3	94.1	121.4	211.0	247.4	214.0	173.1	140.9
85°	78.0	60.0	55.8	62.6	58.1	62.2	134.9	182.1	162.3	112.8	104.9
87.5°	27.7	26.6	21.4	28.9	24.7	22.1	41.2	91.8	107.2	77.6	69.3
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)