

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: P1209070

Luminaire Tested: UPW-SA2-090-740-U-SL3

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2211-834-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-SL3
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11318 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

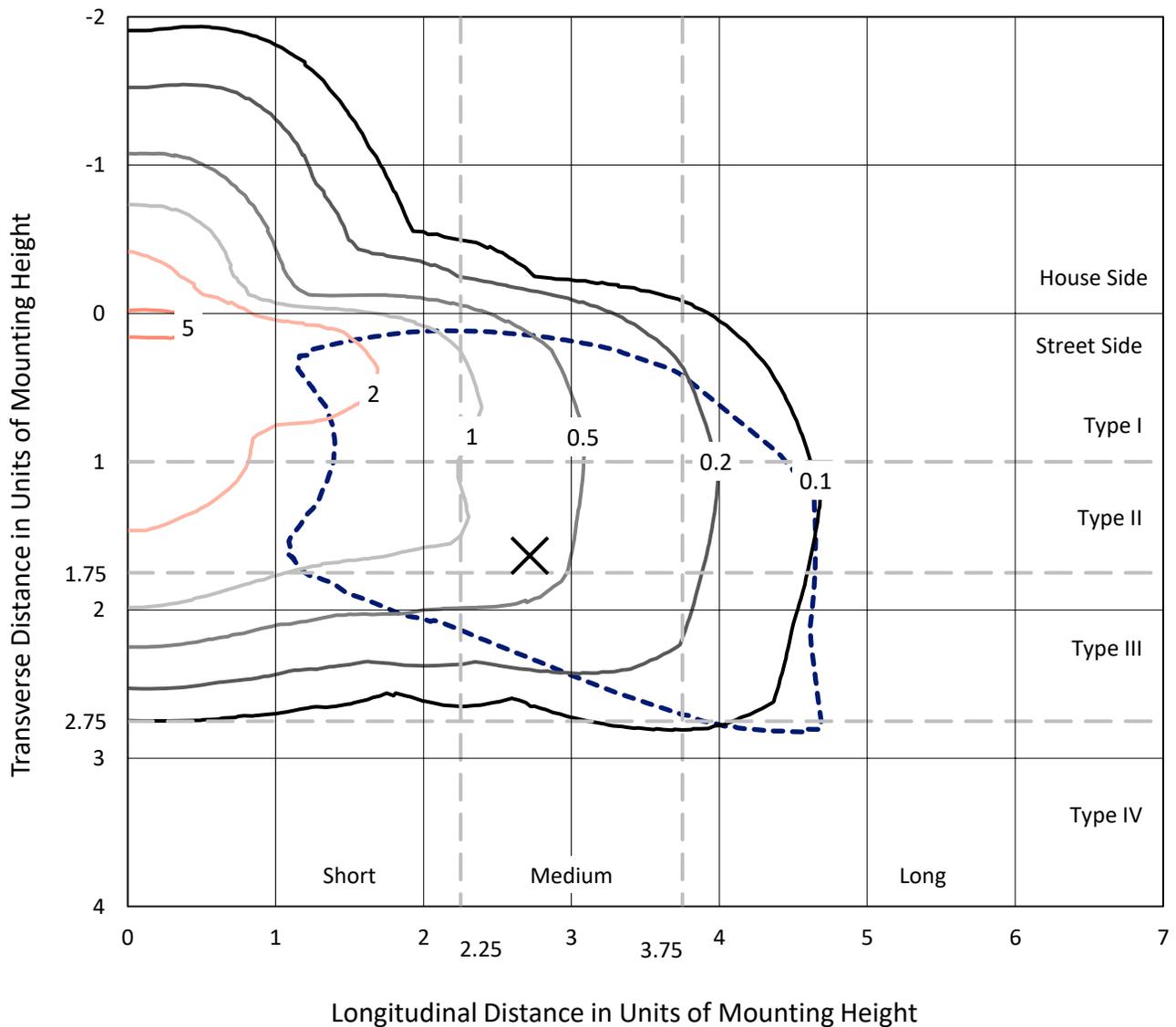


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

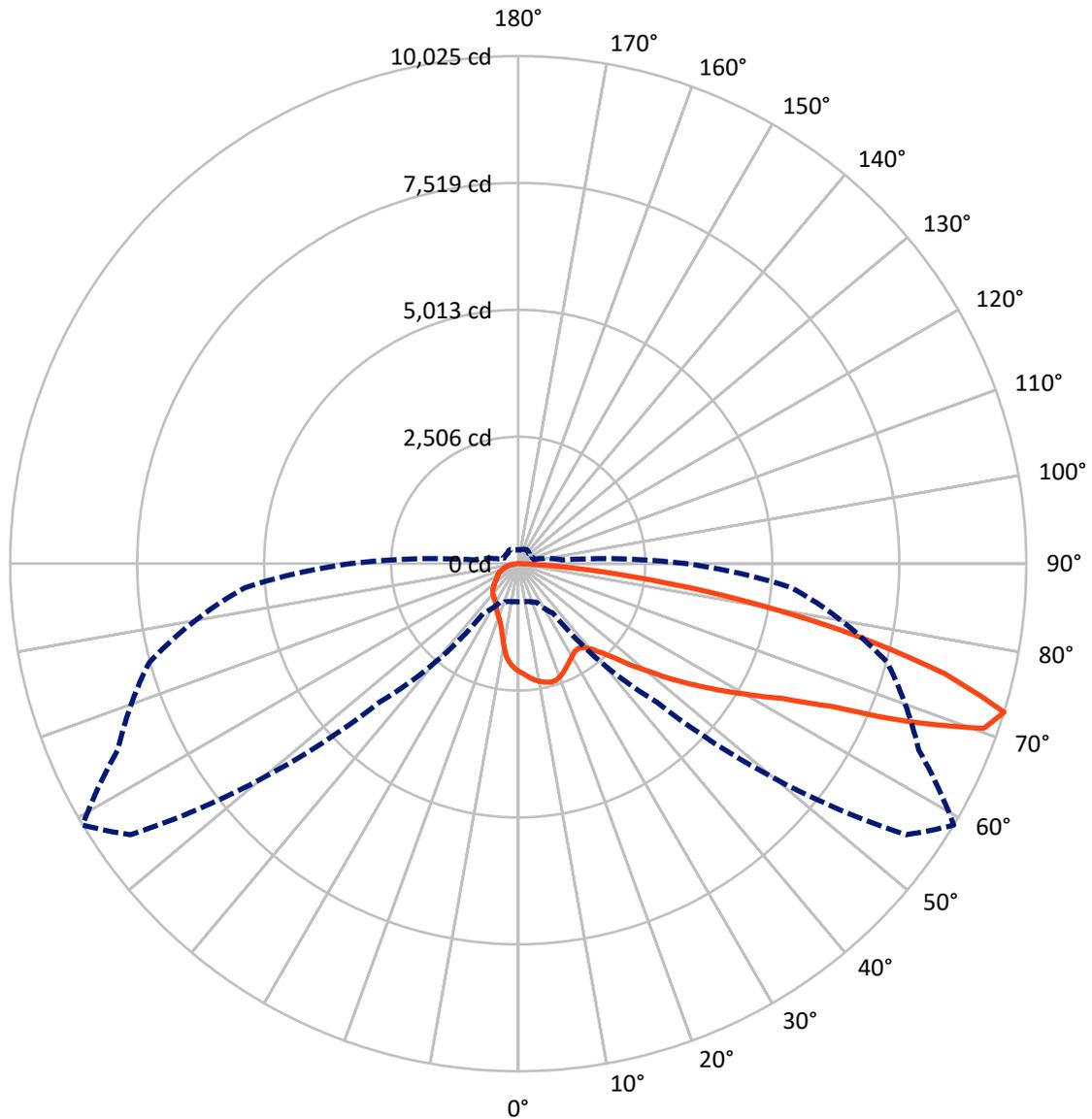


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.9	0.0	1925.9
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	9392.1	0.0	9392.1
	% Fixture	83.0	0.0	83.0
Total	Lumens	11318.0	0.0	11318.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.7
10°-20°	488.9	4.3
20°-30°	719.0	6.4
30°-40°	987.9	8.7
40°-50°	1475.6	13.0
50°-60°	2248.8	19.9
60°-70°	2882.3	25.5
70°-80°	1992.5	17.6
80°-90°	331.5	2.9
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°	11318.0	100.0
0°-180°	11318.0	100.0



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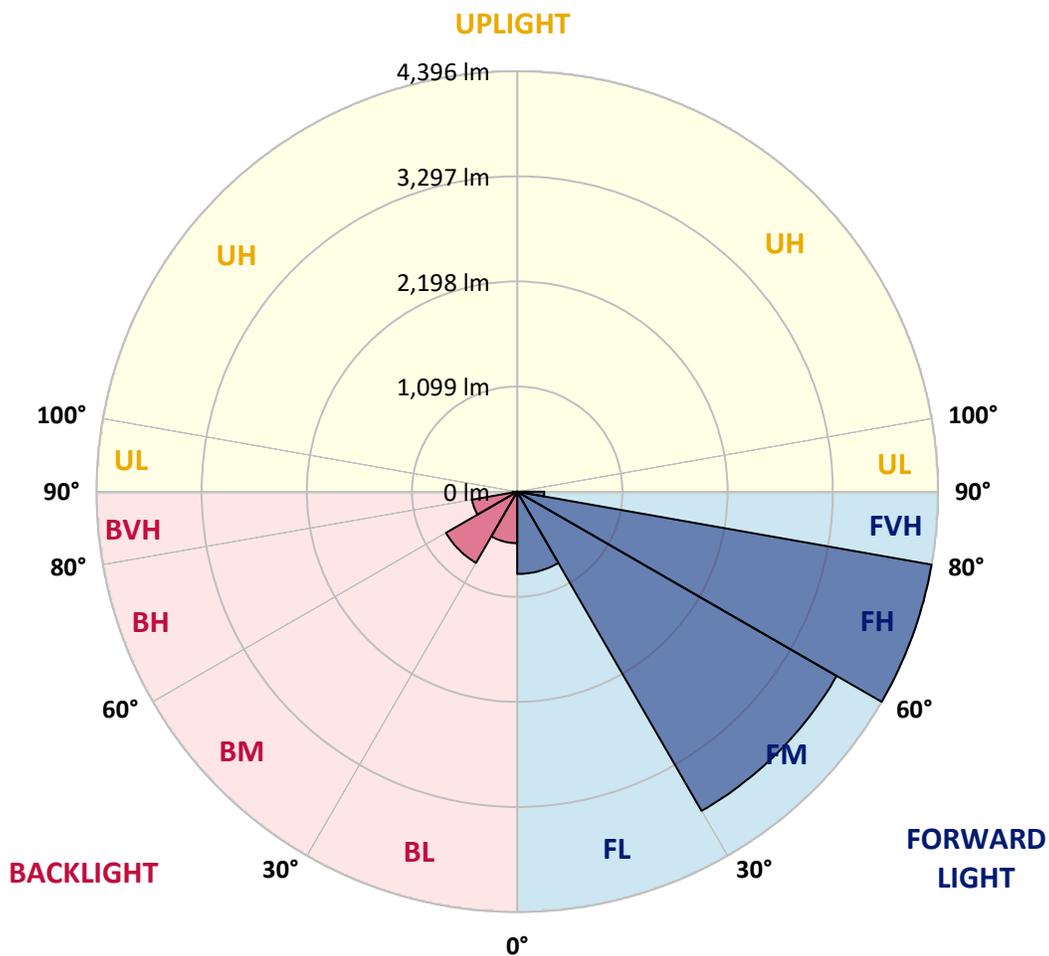
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.5	7.6			
FM	(30°-60°)	3853.3	34.0			
FH	(60°-80°)	4395.5	38.8			G2/5000
FVH	(80°-90°)	282.8	2.5			G3/500
BL	(0°-30°)	538.9	4.8	B2/1000		
BM	(30°-60°)	859.0	7.6	B1/1000		
BH	(60°-80°)	479.3	4.2	B1/500		G1/500
BVH	(80°-90°)	48.7	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2221.9	2215.6	2218.8	2223.5	2210.9	2212.5	2196.8	2184.3	2174.8	2168.6	2154.4
5°	2276.8	2261.2	2267.4	2281.6	2267.4	2280.0	2262.7	2253.3	2237.6	2228.2	2196.8
7.5°	2231.3	2220.4	2236.0	2272.1	2289.4	2322.3	2325.5	2319.2	2312.9	2292.5	2253.3
10°	2021.1	2014.8	2055.6	2151.3	2231.3	2311.4	2364.7	2364.7	2367.9	2353.7	2306.7
12.5°	1754.3	1749.6	1803.0	1920.6	2077.6	2261.2	2388.3	2402.4	2427.5	2422.8	2363.1
15°	1577.0	1573.9	1616.2	1710.4	1872.0	2132.5	2385.1	2432.2	2484.0	2495.0	2421.2
17.5°	1486.0	1486.0	1515.8	1588.0	1699.4	1953.6	2316.1	2419.6	2524.8	2576.6	2487.1
20°	1460.9	1457.7	1475.0	1518.9	1595.8	1793.5	2212.5	2375.7	2556.2	2642.5	2529.5
22.5°	1473.4	1470.3	1476.6	1498.5	1542.5	1686.8	2101.1	2309.8	2573.4	2700.5	2567.1
25°	1534.6	1531.5	1523.6	1522.1	1531.5	1636.6	1988.1	2236.0	2590.7	2783.7	2612.6
27.5°	1653.9	1644.5	1617.8	1592.7	1567.6	1625.6	1915.9	2170.1	2612.6	2852.7	2640.9
30°	1807.7	1804.5	1771.6	1724.5	1641.3	1650.8	1870.4	2108.9	2612.6	2906.1	2639.3
32.5°	1920.6	1922.2	1915.9	1887.7	1770.0	1707.2	1853.2	2058.7	2607.9	2979.8	2645.6
35°	2039.9	2039.9	2024.2	2024.2	1947.3	1817.1	1878.3	2054.0	2634.6	3102.2	2691.1
37.5°	2242.3	2239.2	2206.2	2173.3	2116.8	1994.4	1952.0	2099.5	2708.4	3298.4	2752.3
40°	2509.1	2515.4	2447.9	2356.9	2291.0	2200.0	2090.1	2215.6	2822.9	3532.2	2830.8
42.5°	2830.8	2848.0	2742.9	2617.4	2502.8	2383.5	2283.1	2400.8	3025.3	3864.8	2965.7
45°	3226.2	3208.9	3077.1	2909.2	2758.6	2556.2	2495.0	2640.9	3288.9	4315.2	3172.8
47.5°	3569.8	3579.2	3417.6	3234.0	3047.3	2766.4	2763.3	2992.4	3637.3	4776.5	3411.3
50°	3904.1	3932.3	3753.4	3560.4	3361.1	3001.8	3102.2	3340.7	4010.8	5247.3	3706.3
52.5°	4166.1	4184.9	4018.6	3852.3	3654.6	3312.5	3502.4	3787.9	4388.9	5697.6	4045.3
55°	4373.2	4399.9	4213.2	4075.1	3924.5	3651.4	3960.5	4228.9	4781.2	6116.6	4392.1
57.5°	4654.1	4669.8	4434.4	4313.6	4172.4	4037.4	4464.2	4724.7	5201.7	6472.8	4751.4
60°	4869.1	4878.5	4635.3	4597.6	4594.5	4569.4	5024.4	5256.7	5597.2	6805.4	5118.6
62.5°	4682.4	4682.4	4514.5	4619.6	5000.9	5443.4	5801.2	5870.2	6005.2	7128.7	5471.6
65°	3709.5	3747.1	3766.0	4119.0	4971.1	6337.8	7089.4	6785.0	6515.1	7425.2	5760.4
67.5°	1947.3	2022.6	2196.8	2805.6	4098.6	6664.2	8740.2	8336.9	7238.5	7624.5	5873.3
70°	991.7	1013.7	1104.7	1445.2	2579.7	5805.9	9720.9	9744.5	8101.5	7710.8	5791.8
72.5°	753.2	753.2	773.6	841.1	1192.6	3872.7	9336.5	10025.3	8719.8	7536.7	5407.3
75°	627.7	635.5	676.3	685.7	602.6	2010.1	7572.7	8697.8	8062.3	6898.0	4723.2
77.5°	503.7	508.4	572.7	610.4	406.4	859.9	5521.9	6788.2	6217.0	5575.2	3326.6
80°	379.7	387.6	445.6	522.5	301.3	412.7	3720.5	4643.1	3889.9	3417.6	1536.2
82.5°	254.2	257.3	304.4	412.7	222.8	229.1	2192.1	2601.7	1890.8	1280.4	403.3
85°	155.3	158.5	189.9	266.8	147.5	122.4	972.9	1005.8	597.8	304.4	144.4
87.5°	70.6	78.5	98.9	128.7	73.8	50.2	163.2	160.1	117.7	109.8	61.2
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°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2134.1	2116.8	2099.5	2076.0	2055.6	2021.1	1997.5	1974.0	1961.4	1958.3	1953.6
5°	2171.7	2141.9	2091.7	2025.8	1953.6	1872.0	1795.1	1727.6	1682.1	1668.0	1674.3
7.5°	2215.6	2173.3	2074.4	1947.3	1801.4	1641.3	1506.4	1418.5	1363.6	1332.2	1338.5
10°	2254.9	2193.7	2036.8	1823.4	1573.9	1373.0	1266.3	1205.1	1176.9	1173.7	1172.2
12.5°	2294.1	2214.1	1978.7	1646.0	1369.9	1211.4	1158.0	1140.8	1137.6	1140.8	1139.2
15°	2339.6	2225.1	1879.8	1462.5	1225.5	1143.9	1126.7	1121.9	1123.5	1131.4	1129.8
17.5°	2377.3	2220.4	1726.1	1296.1	1148.6	1111.0	1095.3	1087.4	1095.3	1109.4	1109.4
20°	2389.8	2174.8	1548.8	1180.0	1106.3	1074.9	1052.9	1040.3	1049.8	1067.0	1070.2
22.5°	2380.4	2088.5	1366.7	1098.4	1062.3	1032.5	1009.0	996.4	1001.1	1013.7	1015.2
25°	2366.3	1975.6	1206.7	1035.6	1005.8	982.3	976.0	960.3	952.5	960.3	961.9
27.5°	2323.9	1826.5	1074.9	971.3	943.1	946.2	943.1	928.9	918.0	916.4	919.5
30°	2229.8	1619.4	976.0	905.4	896.0	913.2	913.2	892.8	872.5	869.3	874.0
32.5°	2116.8	1407.5	894.4	850.5	869.3	878.7	878.7	861.5	841.1	828.5	834.8
35°	2005.4	1206.7	831.7	812.8	848.9	856.8	848.9	842.6	809.7	778.3	786.1
37.5°	1876.7	1034.1	776.7	784.6	825.4	828.5	828.5	806.5	762.6	735.9	742.2
40°	1737.1	903.8	731.2	759.5	800.3	800.3	787.7	773.6	751.6	724.9	728.1
42.5°	1647.6	816.0	696.7	732.8	761.0	770.5	742.2	753.2	734.4	706.1	709.3
45°	1635.1	761.0	668.5	692.0	717.1	714.0	715.5	723.4	706.1	668.5	666.9
47.5°	1711.9	743.8	641.8	646.5	668.5	679.4	688.9	692.0	666.9	626.1	619.8
50°	1883.0	773.6	615.1	605.7	624.5	649.6	659.0	663.8	633.9	591.6	585.3
52.5°	2146.6	866.2	591.6	571.2	569.6	613.5	640.2	652.8	605.7	560.2	557.1
55°	2438.5	991.7	560.2	541.4	524.1	585.3	624.5	638.6	579.0	519.4	514.7
57.5°	2749.2	1140.8	524.1	511.5	491.1	558.6	596.3	607.3	538.2	470.7	467.6
60°	3074.0	1274.2	489.6	478.6	467.6	522.5	561.8	564.9	500.6	433.1	429.9
62.5°	3367.4	1365.2	456.6	444.1	444.1	480.2	521.0	517.8	461.3	398.6	395.4
65°	3584.0	1354.2	426.8	411.1	417.4	434.7	470.7	459.8	419.0	365.6	362.5
67.5°	3671.8	1238.1	398.6	381.3	382.9	387.6	417.4	409.5	376.6	332.7	331.1
70°	3580.8	1029.4	362.5	340.5	337.4	338.9	368.8	354.6	331.1	302.8	301.3
72.5°	3309.3	863.0	321.7	302.8	296.6	291.9	317.0	310.7	293.4	269.9	271.5
75°	2901.4	745.3	277.7	265.2	254.2	249.5	269.9	266.8	254.2	238.5	238.5
77.5°	2027.3	544.5	229.1	224.4	218.1	208.7	224.4	226.0	218.1	213.4	211.8
80°	878.7	304.4	180.5	183.6	175.7	169.5	182.0	183.6	189.9	183.6	185.2
82.5°	254.2	150.6	130.2	139.7	136.5	130.2	136.5	150.6	141.2	124.0	127.1
85°	94.1	72.2	81.6	87.9	83.2	65.9	86.3	98.9	89.4	83.2	84.7
87.5°	36.1	26.7	34.5	29.8	23.5	17.3	29.8	33.0	43.9	17.3	14.1
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)