

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: P1208761

Luminaire Tested: UPW-SA2-070-727-U-T3R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208761  
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-SA2-070-727-U-T3R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8316 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

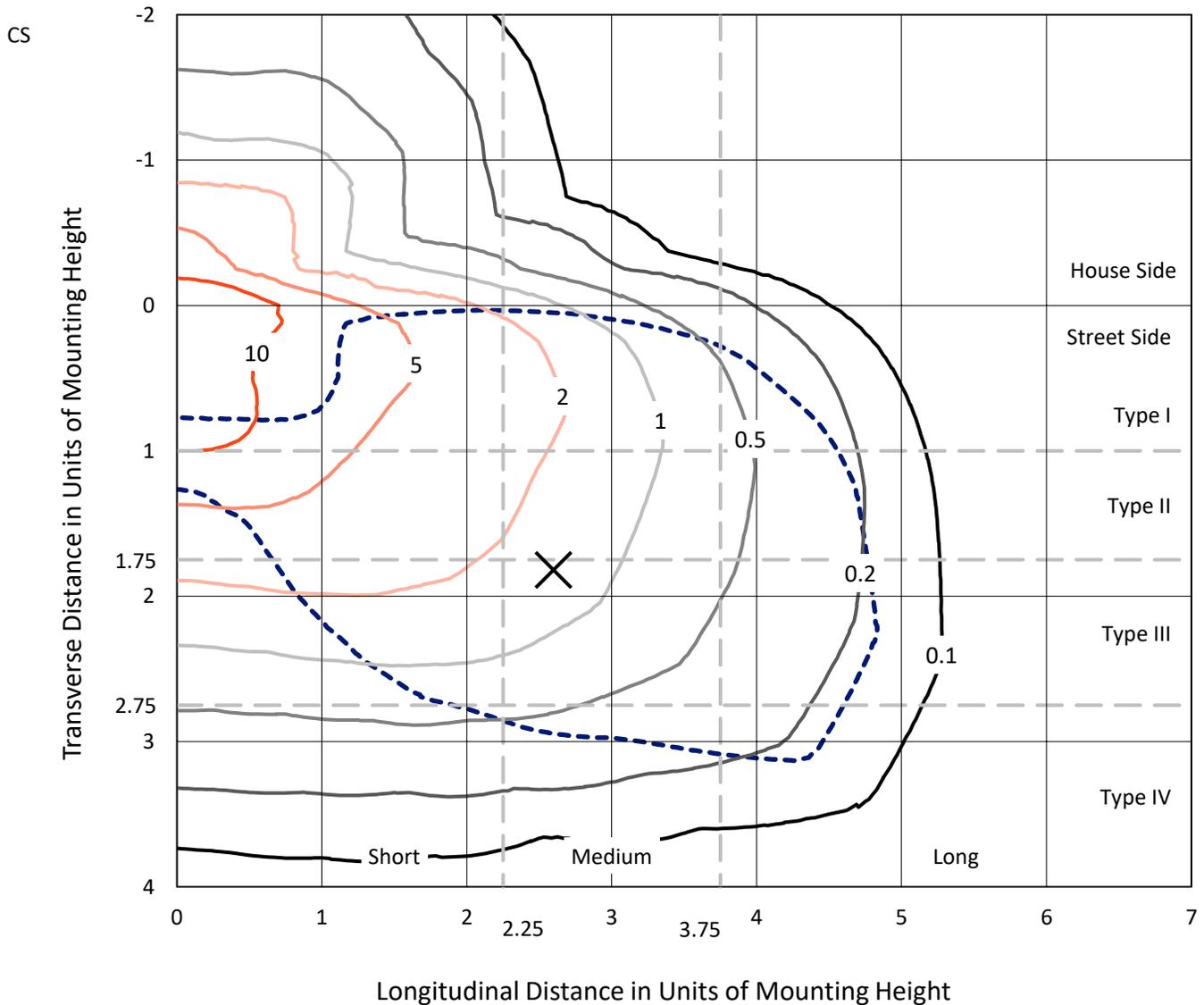
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

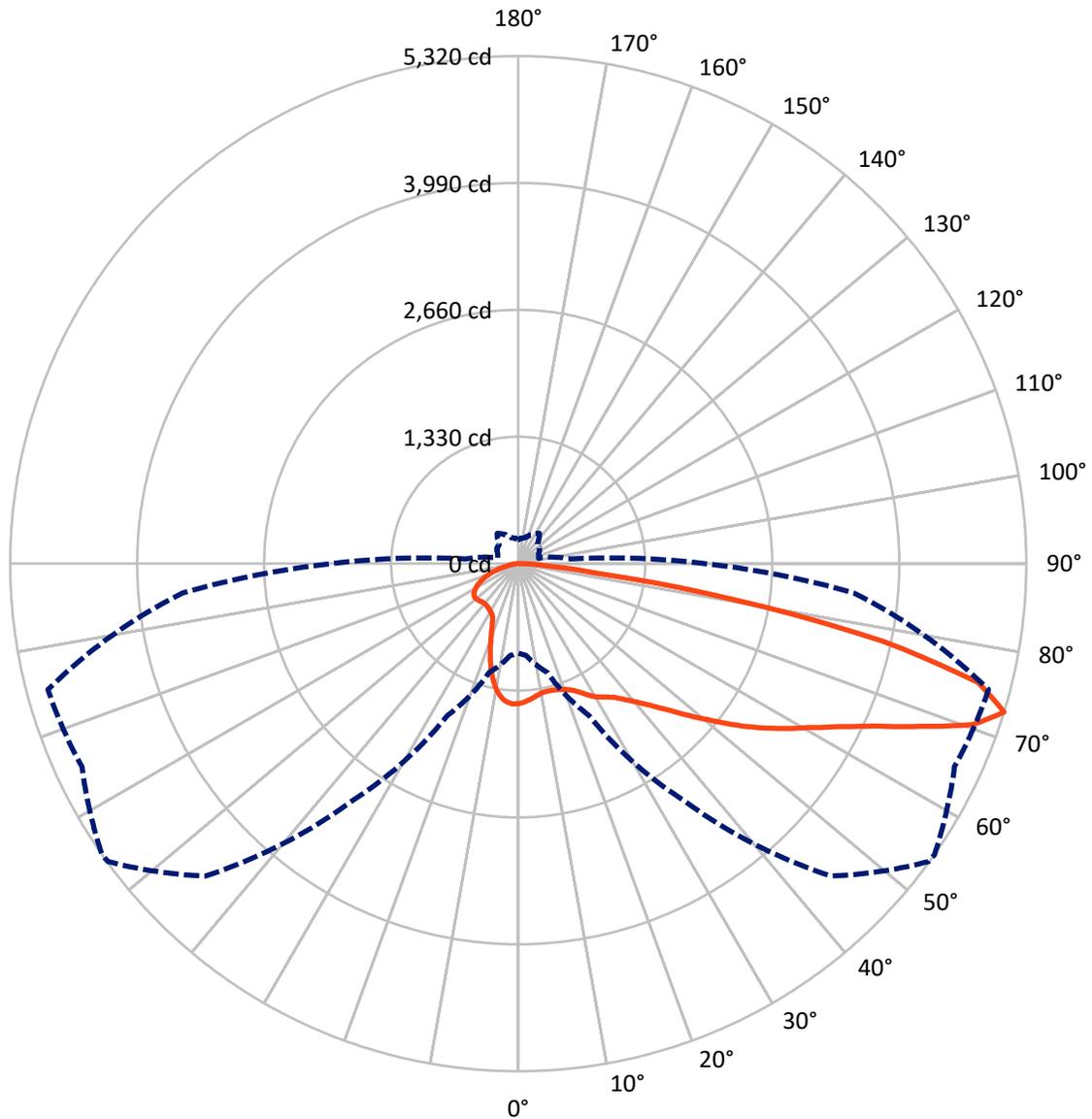
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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
<b>House Side</b>	Lumens	1545.7	0.0	1545.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	6770.3	0.0	6770.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	8316.0	0.0	8316.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.7	1.6
10°-20°	353.4	4.2
20°-30°	582.6	7.0
30°-40°	861.8	10.4
40°-50°	1202.9	14.5
50°-60°	1566.2	18.8
60°-70°	1924.9	23.1
70°-80°	1508.9	18.1
80°-90°	182.6	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°	8316.0	100.0
0°-180°	8316.0	100.0



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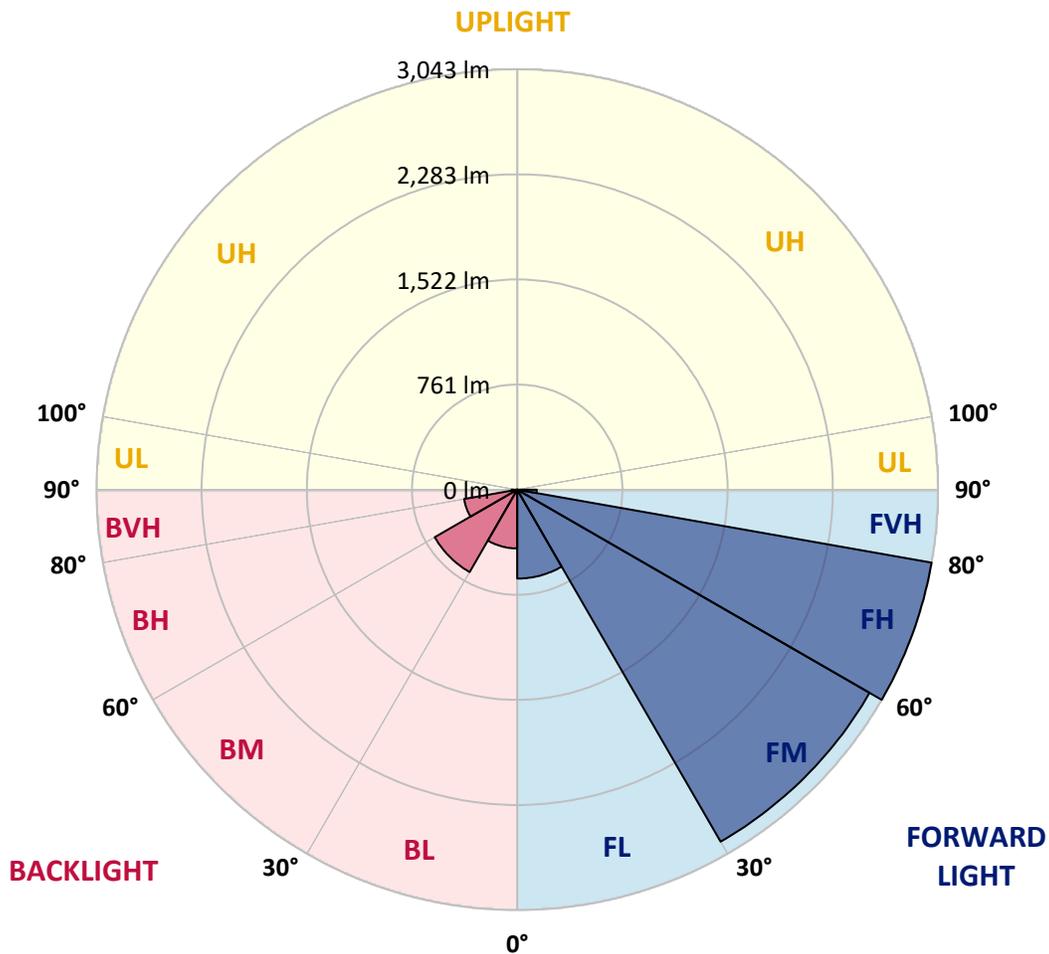
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.4	7.7			
FM	(30°-60°)	2942.4	35.4			
FH	(60°-80°)	3043.4	36.6			G2/5000
FVH	(80°-90°)	141.2	1.7			G2/225
BL	(0°-30°)	425.3	5.1	B1/500		
BM	(30°-60°)	688.6	8.3	B1/1000		
BH	(60°-80°)	390.4	4.7	B1/500		G1/500
BVH	(80°-90°)	41.4	0.5			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8
2.5°	1419.0	1415.6	1419.9	1425.8	1432.2	1440.9	1446.0	1448.2	1456.9	1460.3	1467.6
5°	1353.3	1351.6	1358.6	1368.7	1383.1	1403.3	1419.6	1422.7	1445.7	1462.0	1476.9
7.5°	1305.5	1305.5	1313.7	1325.8	1341.8	1369.0	1392.0	1396.3	1435.3	1470.4	1497.9
10°	1267.6	1269.0	1278.6	1292.9	1311.7	1340.6	1371.3	1376.0	1432.5	1490.1	1533.9
12.5°	1242.3	1245.7	1254.4	1267.3	1290.7	1325.8	1364.5	1371.0	1438.4	1518.2	1577.1
15°	1258.3	1264.0	1264.8	1270.1	1283.1	1321.3	1368.5	1375.2	1451.0	1546.8	1626.3
17.5°	1328.6	1330.5	1321.8	1310.6	1304.4	1328.9	1380.3	1387.3	1466.2	1575.2	1673.5
20°	1435.3	1434.2	1415.4	1385.0	1353.6	1357.5	1399.6	1406.9	1486.7	1600.2	1720.7
22.5°	1570.1	1566.2	1537.3	1481.4	1427.7	1405.3	1433.6	1439.8	1517.6	1635.9	1771.2
25°	1733.6	1724.9	1686.7	1611.7	1532.8	1474.9	1484.7	1490.6	1562.5	1675.7	1817.6
27.5°	1906.1	1897.4	1848.8	1758.0	1653.0	1562.8	1555.2	1560.3	1613.7	1705.2	1851.9
30°	2086.4	2077.1	2032.7	1931.1	1780.5	1653.8	1621.0	1622.9	1649.6	1721.2	1879.9
32.5°	2267.6	2258.8	2209.1	2091.2	1919.0	1751.6	1668.4	1665.9	1671.2	1737.8	1911.7
35°	2451.3	2454.6	2396.5	2265.9	2072.3	1860.3	1724.6	1719.3	1707.5	1771.8	1956.6
37.5°	2647.9	2645.6	2570.3	2433.8	2232.7	1978.2	1805.2	1804.4	1763.7	1836.1	2027.1
40°	2779.3	2780.7	2734.9	2605.7	2394.8	2108.9	1908.6	1906.6	1853.3	1932.5	2119.5
42.5°	2830.7	2840.0	2851.8	2769.8	2564.4	2260.3	2031.9	2029.1	1978.2	2070.7	2228.2
45°	2834.4	2852.9	2925.9	2915.6	2736.3	2433.6	2189.5	2181.6	2145.1	2254.4	2358.0
47.5°	2802.9	2822.0	2943.4	3002.3	2890.0	2616.4	2373.7	2367.6	2336.1	2484.1	2498.4
50°	2734.1	2752.4	2907.4	3044.8	3016.4	2792.2	2586.1	2569.8	2552.9	2749.5	2659.1
52.5°	2605.2	2640.3	2859.4	3054.9	3091.9	2948.4	2809.4	2798.7	2808.0	3029.6	2820.1
55°	2299.9	2339.2	2735.5	3046.4	3147.8	3079.6	3032.7	3032.1	3080.1	3323.4	2992.8
57.5°	2128.8	2156.6	2483.3	3032.1	3214.1	3209.9	3253.7	3259.1	3352.6	3643.3	3173.7
60°	2032.2	2061.4	2355.5	2979.0	3316.9	3378.4	3479.3	3490.0	3629.6	3997.5	3391.4
62.5°	1944.3	1976.3	2276.3	2870.9	3438.0	3619.4	3749.5	3759.0	3922.8	4361.5	3601.7
65°	1794.0	1830.2	2160.3	2799.8	3548.1	3933.7	4093.0	4099.5	4259.6	4743.0	3762.7
67.5°	1581.6	1614.8	1941.5	2642.8	3629.6	4315.5	4549.7	4553.4	4593.5	5012.3	3845.0
70°	1333.6	1346.3	1629.7	2318.7	3533.2	4672.5	5050.3	5051.1	4898.0	5184.8	3831.5
72.5°	937.0	966.8	1183.1	1755.2	3036.3	4628.9	5310.1	5319.6	5039.6	5097.7	3525.3
75°	574.7	606.1	742.1	1063.7	1926.3	3640.5	4906.2	4972.4	4774.1	4545.2	2879.9
77.5°	384.2	396.0	484.2	620.2	872.7	2094.5	3772.0	3896.7	3966.0	3314.7	1841.7
80°	214.3	236.8	321.0	385.4	388.2	832.3	2261.7	2290.9	2206.6	1319.9	568.2
82.5°	113.5	125.8	214.3	226.4	211.8	278.6	842.9	843.8	705.0	353.9	168.8
85°	87.9	98.3	146.9	138.2	108.1	123.6	278.1	293.2	239.9	144.9	55.1
87.5°	43.8	54.5	99.7	87.6	42.4	35.4	99.4	106.2	94.7	56.7	19.9
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°	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8	1466.8
2.5°	1470.4	1472.9	1476.0	1472.7	1471.5	1467.0	1459.5	1457.8	1453.8	1454.1	1456.4
5°	1483.3	1487.5	1485.9	1472.9	1457.5	1435.9	1413.4	1394.3	1381.7	1380.8	1380.0
7.5°	1508.1	1510.9	1497.7	1460.9	1417.6	1367.6	1320.4	1279.1	1254.1	1248.0	1246.6
10°	1546.8	1546.3	1510.0	1435.9	1349.6	1260.3	1184.5	1127.2	1093.8	1083.9	1081.4
12.5°	1590.1	1583.6	1514.2	1390.4	1253.6	1129.7	1033.6	969.9	935.1	923.8	921.0
15°	1634.7	1618.7	1503.8	1322.4	1135.6	989.0	888.1	829.2	810.3	804.2	803.0
17.5°	1676.3	1645.4	1474.1	1230.3	1001.1	848.8	770.2	746.6	751.1	759.2	759.5
20°	1717.0	1663.4	1426.3	1114.0	859.2	733.4	706.7	724.1	745.5	762.0	764.3
22.5°	1757.2	1676.0	1364.8	979.7	732.3	668.5	687.3	719.1	743.5	761.5	764.6
25°	1790.9	1679.1	1280.0	836.5	644.1	644.1	678.0	708.1	732.3	750.0	753.0
27.5°	1803.3	1658.3	1160.3	703.9	599.7	632.8	665.1	690.1	710.6	729.4	732.8
30°	1808.0	1619.8	1022.1	597.4	581.4	620.7	647.7	669.1	688.4	706.1	709.2
32.5°	1808.9	1573.5	875.5	537.0	568.8	608.1	626.1	644.9	665.7	672.7	673.8
35°	1814.2	1518.7	721.0	506.1	557.0	596.3	610.6	624.1	590.4	592.9	595.2
37.5°	1829.7	1464.5	591.8	488.7	549.4	590.1	607.3	558.4	532.0	525.8	525.0
40°	1858.6	1406.7	496.0	474.7	546.6	593.2	585.6	521.3	475.8	441.8	436.8
42.5°	1898.8	1344.3	434.8	465.4	548.6	608.1	555.6	485.6	410.1	388.2	385.4
45°	1944.0	1278.9	401.7	459.0	555.3	619.6	549.4	438.2	379.5	362.9	361.5
47.5°	1987.8	1198.8	384.5	456.2	564.6	610.4	523.3	423.6	364.9	356.2	357.0
50°	2038.1	1126.6	374.1	453.1	572.7	604.5	493.8	416.0	359.2	369.9	381.2
52.5°	2080.5	1051.9	364.9	446.9	575.8	594.1	486.2	417.4	359.2	379.8	390.4
55°	2130.8	995.4	354.2	434.0	569.9	564.6	480.9	425.8	363.5	350.5	351.7
57.5°	2195.7	976.9	342.4	413.7	550.2	521.6	478.3	434.0	360.9	352.8	355.6
60°	2285.5	996.6	337.6	387.3	519.6	487.9	478.6	429.7	343.2	329.2	329.5
62.5°	2371.2	1018.5	337.3	370.8	482.0	457.8	472.2	416.0	334.2	326.1	329.2
65°	2399.3	996.3	323.9	352.2	439.6	421.9	460.4	401.4	327.5	315.1	314.6
67.5°	2361.7	927.5	296.6	322.2	391.0	380.0	444.9	384.0	316.8	306.7	305.0
70°	2249.9	773.8	262.9	282.6	335.7	332.8	420.5	363.7	302.5	293.8	286.5
72.5°	1949.0	551.4	221.6	235.1	273.3	282.3	386.8	337.3	282.3	263.5	252.2
75°	1600.7	408.1	182.0	184.8	207.6	232.0	340.4	306.4	258.4	226.4	217.7
77.5°	980.3	249.7	144.9	146.1	148.9	185.1	280.3	271.9	228.1	188.8	182.6
80°	317.4	136.2	104.8	110.1	101.7	135.7	216.8	231.4	195.8	157.9	151.1
82.5°	120.8	79.5	70.8	74.4	70.5	91.0	158.1	185.4	160.4	129.8	105.6
85°	58.4	44.9	41.9	46.9	43.5	46.6	101.1	136.5	121.6	84.5	78.6
87.5°	20.8	19.9	16.0	21.6	18.5	16.6	30.9	68.8	80.3	58.1	52.0
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)