

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: P1209166

Luminaire Tested: UPW-SA2-090-827-U-T3R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209166  
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-SA2-090-827-U-T3R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8965 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

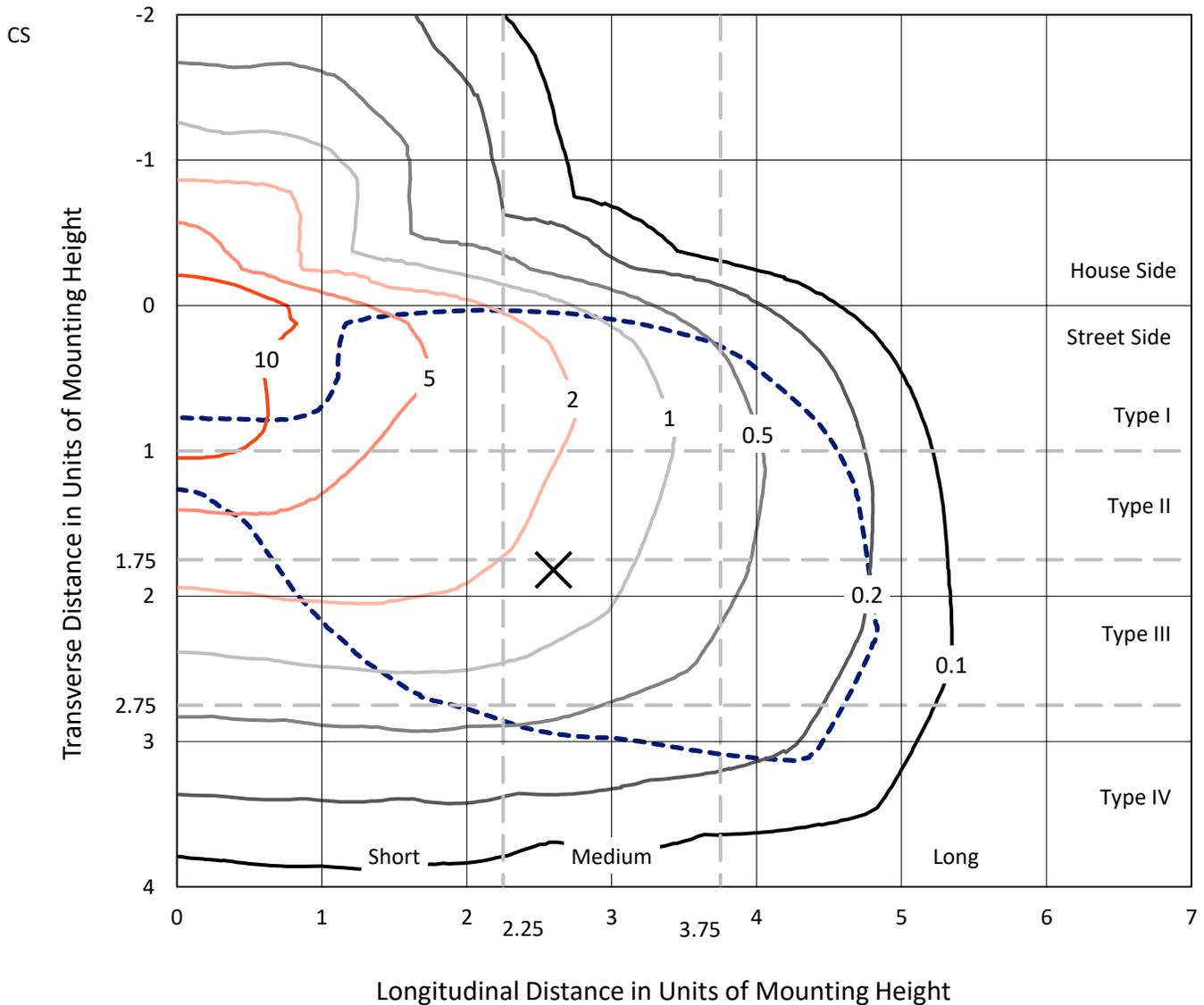
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

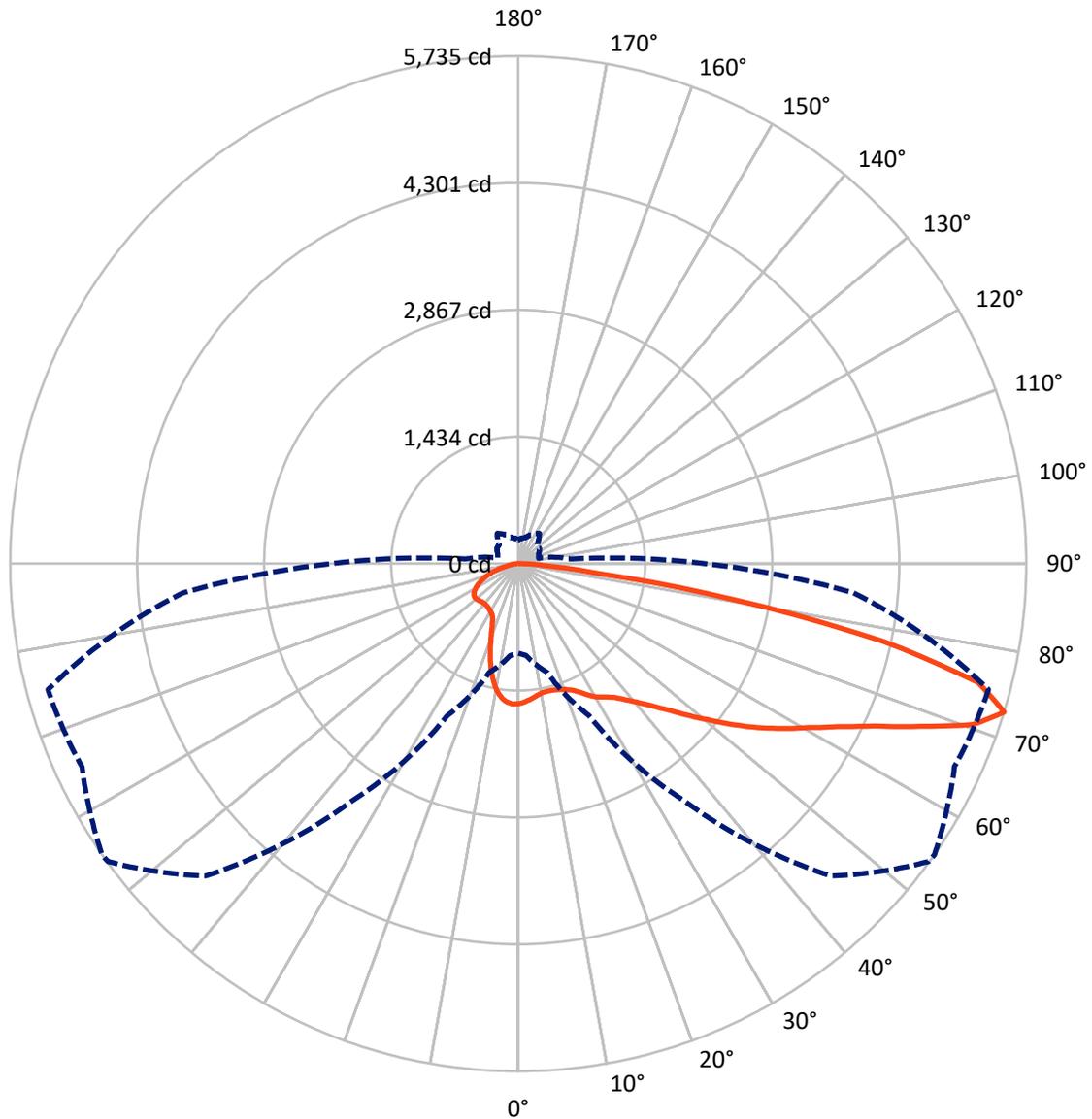
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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
<b>House Side</b>	Lumens	1666.3	0.0	1666.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7298.7	0.0	7298.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	8965.0	0.0	8965.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	1.6
10°-20°	380.9	4.2
20°-30°	628.1	7.0
30°-40°	929.1	10.4
40°-50°	1296.8	14.5
50°-60°	1688.5	18.8
60°-70°	2075.1	23.1
70°-80°	1626.6	18.1
80°-90°	196.8	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°	8965.0	100.0
0°-180°	8965.0	100.0



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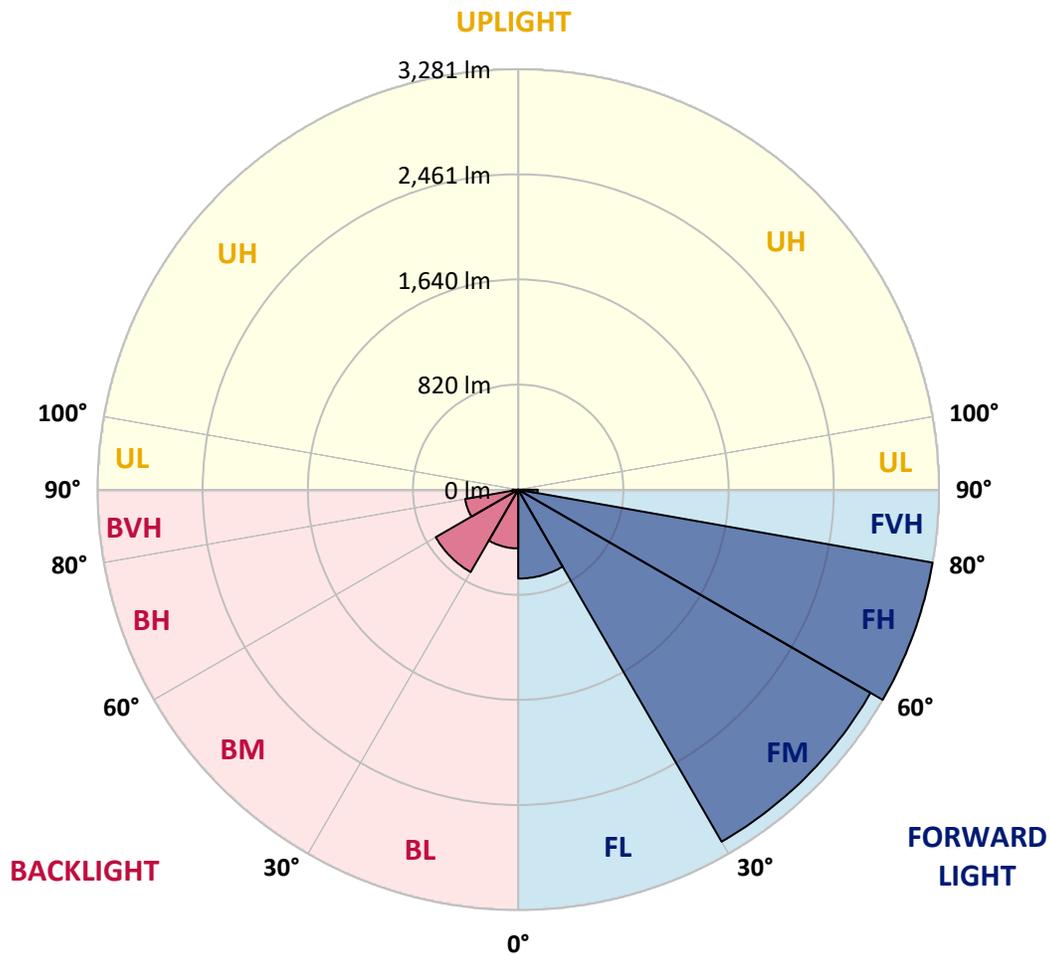
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.6	7.7			
FM (30°-60°)	3172.0	35.4			
FH (60°-80°)	3280.9	36.6			G2/5000
FVH (80°-90°)	152.2	1.7			G2/225
BL (0°-30°)	458.5	5.1	B1/500		
BM (30°-60°)	742.4	8.3	B1/1000		
BH (60°-80°)	420.8	4.7	B1/500		G1/500
BVH (80°-90°)	44.7	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°	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2
2.5°	1529.8	1526.1	1530.7	1537.0	1544.0	1553.4	1558.8	1561.2	1570.6	1574.3	1582.1
5°	1458.9	1457.1	1464.7	1475.6	1491.0	1512.8	1530.4	1533.7	1558.5	1576.1	1592.1
7.5°	1407.4	1407.4	1416.2	1429.2	1446.5	1475.9	1500.7	1505.2	1547.3	1585.2	1614.8
10°	1366.5	1368.1	1378.4	1393.8	1414.1	1445.3	1478.3	1483.4	1544.3	1606.4	1653.6
12.5°	1339.3	1342.9	1352.3	1366.2	1391.4	1429.2	1471.0	1478.0	1550.7	1636.6	1700.2
15°	1356.6	1362.6	1363.5	1369.3	1383.2	1424.4	1475.3	1482.5	1564.3	1667.5	1753.2
17.5°	1432.3	1434.4	1425.0	1412.9	1406.2	1432.6	1488.0	1495.5	1580.6	1698.1	1804.1
20°	1547.3	1546.1	1525.8	1493.1	1459.2	1463.4	1508.9	1516.7	1602.7	1725.1	1855.0
22.5°	1692.7	1688.4	1657.2	1597.0	1539.1	1514.9	1545.5	1552.2	1636.0	1763.5	1909.5
25°	1868.9	1859.5	1818.3	1737.5	1652.4	1590.0	1600.6	1607.0	1684.5	1806.5	1959.4
27.5°	2054.8	2045.4	1993.0	1895.2	1782.0	1684.8	1676.6	1682.1	1739.6	1838.3	1996.4
30°	2249.2	2239.2	2191.4	2081.8	1919.5	1782.9	1747.5	1749.6	1778.4	1855.6	2026.7
32.5°	2444.5	2435.1	2381.5	2254.4	2068.7	1888.3	1798.6	1795.9	1801.7	1873.4	2060.9
35°	2642.6	2646.2	2583.5	2442.7	2234.1	2005.5	1859.2	1853.5	1840.7	1910.1	2109.3
37.5°	2854.5	2852.1	2770.9	2623.8	2407.0	2132.6	1946.1	1945.2	1901.3	1979.4	2185.3
40°	2996.2	2997.7	2948.4	2809.1	2581.7	2273.4	2057.5	2055.4	1997.9	2083.3	2284.9
42.5°	3051.6	3061.6	3074.4	2985.9	2764.6	2436.6	2190.5	2187.4	2132.6	2232.3	2402.1
45°	3055.6	3075.6	3154.3	3143.1	2949.9	2623.5	2360.3	2351.9	2312.5	2430.3	2542.0
47.5°	3021.7	3042.3	3173.1	3236.7	3115.5	2820.6	2559.0	2552.3	2518.4	2678.0	2693.4
50°	2947.5	2967.2	3134.3	3282.4	3251.8	3010.2	2787.9	2770.3	2752.2	2964.1	2866.6
52.5°	2808.5	2846.3	3082.5	3293.3	3333.2	3178.5	3028.6	3017.1	3027.1	3266.0	3040.1
55°	2479.3	2521.7	2949.0	3284.2	3393.5	3319.9	3269.4	3268.7	3320.5	3582.8	3226.4
57.5°	2294.9	2324.9	2677.1	3268.7	3465.0	3460.4	3507.7	3513.4	3614.2	3927.6	3421.4
60°	2190.8	2222.3	2539.3	3211.5	3575.8	3642.1	3750.8	3762.3	3912.8	4309.5	3656.0
62.5°	2096.0	2130.5	2453.9	3094.9	3706.3	3901.9	4042.1	4052.4	4228.9	4701.9	3882.8
65°	1934.0	1973.1	2328.9	3018.3	3825.0	4240.7	4412.4	4419.4	4592.0	5113.1	4056.3
67.5°	1705.1	1740.8	2093.0	2849.1	3912.8	4652.3	4904.8	4908.7	4952.0	5403.5	4145.1
70°	1437.7	1451.3	1756.9	2499.6	3808.9	5037.1	5444.4	5445.3	5280.3	5589.4	4130.5
72.5°	1010.1	1042.2	1275.4	1892.2	3273.3	4990.2	5724.5	5734.8	5432.9	5495.6	3800.5
75°	619.5	653.4	800.0	1146.7	2076.6	3924.6	5289.0	5360.5	5146.7	4899.9	3104.6
77.5°	414.2	427.0	522.0	668.6	940.8	2258.0	4066.3	4200.8	4275.6	3573.4	1985.5
80°	231.0	255.3	346.1	415.4	418.5	897.2	2438.2	2469.7	2378.8	1422.9	612.6
82.5°	122.3	135.7	231.0	244.1	228.3	300.4	908.7	909.6	760.0	381.5	182.0
85°	94.8	106.0	158.4	149.0	116.6	133.2	299.8	316.1	258.6	156.2	59.3
87.5°	47.2	58.7	107.5	94.5	45.7	38.2	107.2	114.5	102.0	61.2	21.5
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°	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2	1581.2
2.5°	1585.2	1587.9	1591.2	1587.6	1586.4	1581.5	1573.4	1571.5	1567.3	1567.6	1570.0
5°	1599.1	1603.6	1601.8	1587.9	1571.2	1547.9	1523.7	1503.1	1489.5	1488.6	1487.7
7.5°	1625.7	1628.8	1614.5	1574.9	1528.2	1474.3	1423.5	1379.0	1352.0	1345.4	1343.8
10°	1667.5	1666.9	1627.9	1547.9	1455.0	1358.7	1276.9	1215.1	1179.1	1168.5	1165.8
12.5°	1714.2	1707.2	1632.4	1498.9	1351.4	1217.9	1114.3	1045.6	1008.0	995.9	992.9
15°	1762.3	1745.0	1621.2	1425.6	1224.2	1066.2	957.5	893.9	873.6	866.9	865.7
17.5°	1807.1	1773.8	1589.1	1326.3	1079.2	915.1	830.3	804.8	809.7	818.5	818.8
20°	1851.0	1793.2	1537.6	1200.9	926.3	790.6	761.9	780.6	803.6	821.5	823.9
22.5°	1894.3	1806.8	1471.3	1056.2	789.4	720.7	741.0	775.2	801.5	820.9	824.2
25°	1930.7	1810.2	1379.9	901.7	694.3	694.3	731.0	763.4	789.4	808.5	811.8
27.5°	1944.0	1787.7	1250.9	758.8	646.5	682.2	717.0	744.0	766.1	786.4	790.0
30°	1949.1	1746.3	1101.9	644.1	626.8	669.2	698.3	721.3	742.2	761.2	764.6
32.5°	1950.0	1696.3	943.8	579.0	613.2	655.6	674.9	695.2	717.6	725.2	726.4
35°	1955.8	1637.3	777.3	545.6	600.5	642.8	658.3	672.8	636.5	639.2	641.6
37.5°	1972.5	1578.8	638.0	526.9	592.3	636.2	654.7	602.0	573.5	566.8	565.9
40°	2003.6	1516.4	534.7	511.7	589.3	639.5	631.3	562.0	512.9	476.3	470.9
42.5°	2046.9	1449.2	468.7	501.7	591.4	655.6	598.9	523.5	442.1	418.5	415.4
45°	2095.7	1378.7	433.0	494.8	598.6	668.0	592.3	472.4	409.1	391.2	389.7
47.5°	2142.9	1292.4	414.5	491.8	608.6	658.0	564.1	456.6	393.3	384.0	384.9
50°	2197.1	1214.5	403.3	488.4	617.4	651.6	532.3	448.5	387.3	398.8	410.9
52.5°	2242.9	1134.0	393.3	481.8	620.7	640.4	524.2	450.0	387.3	409.4	420.9
55°	2297.1	1073.1	381.8	467.8	614.4	608.6	518.4	459.0	391.8	377.9	379.1
57.5°	2367.0	1053.1	369.1	446.0	593.2	562.3	515.7	467.8	389.1	380.3	383.3
60°	2463.9	1074.3	364.0	417.6	560.2	526.0	516.0	463.3	370.0	354.9	355.2
62.5°	2556.3	1098.0	363.7	399.7	519.6	493.6	509.0	448.5	360.3	351.6	354.9
65°	2586.5	1074.0	349.1	379.7	473.9	454.8	496.3	432.7	353.1	339.7	339.1
67.5°	2546.0	999.9	319.8	347.3	421.5	409.7	479.6	413.9	341.6	330.7	328.8
70°	2425.4	834.2	283.4	304.6	361.8	358.8	453.3	392.1	326.1	316.7	308.9
72.5°	2101.1	594.4	238.9	253.4	294.6	304.3	417.0	363.7	304.3	284.0	271.9
75°	1725.7	440.0	196.2	199.2	223.8	250.1	367.0	330.4	278.6	244.1	234.7
77.5°	1056.8	269.2	156.2	157.5	160.5	199.5	302.2	293.1	245.9	203.5	196.8
80°	342.2	146.9	112.9	118.7	109.6	146.3	233.8	249.5	211.1	170.2	162.9
82.5°	130.2	85.7	76.3	80.2	76.0	98.1	170.5	199.8	172.9	139.9	113.9
85°	63.0	48.4	45.1	50.6	46.9	50.3	109.0	147.2	131.1	91.1	84.8
87.5°	22.4	21.5	17.3	23.3	20.0	17.9	33.3	74.2	86.6	62.7	56.0
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)