

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: P1208989

Luminaire Tested: UPW-SA2-090-727-U-SL3

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2211-834-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-727-U-SL3  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 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: 9464 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - 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

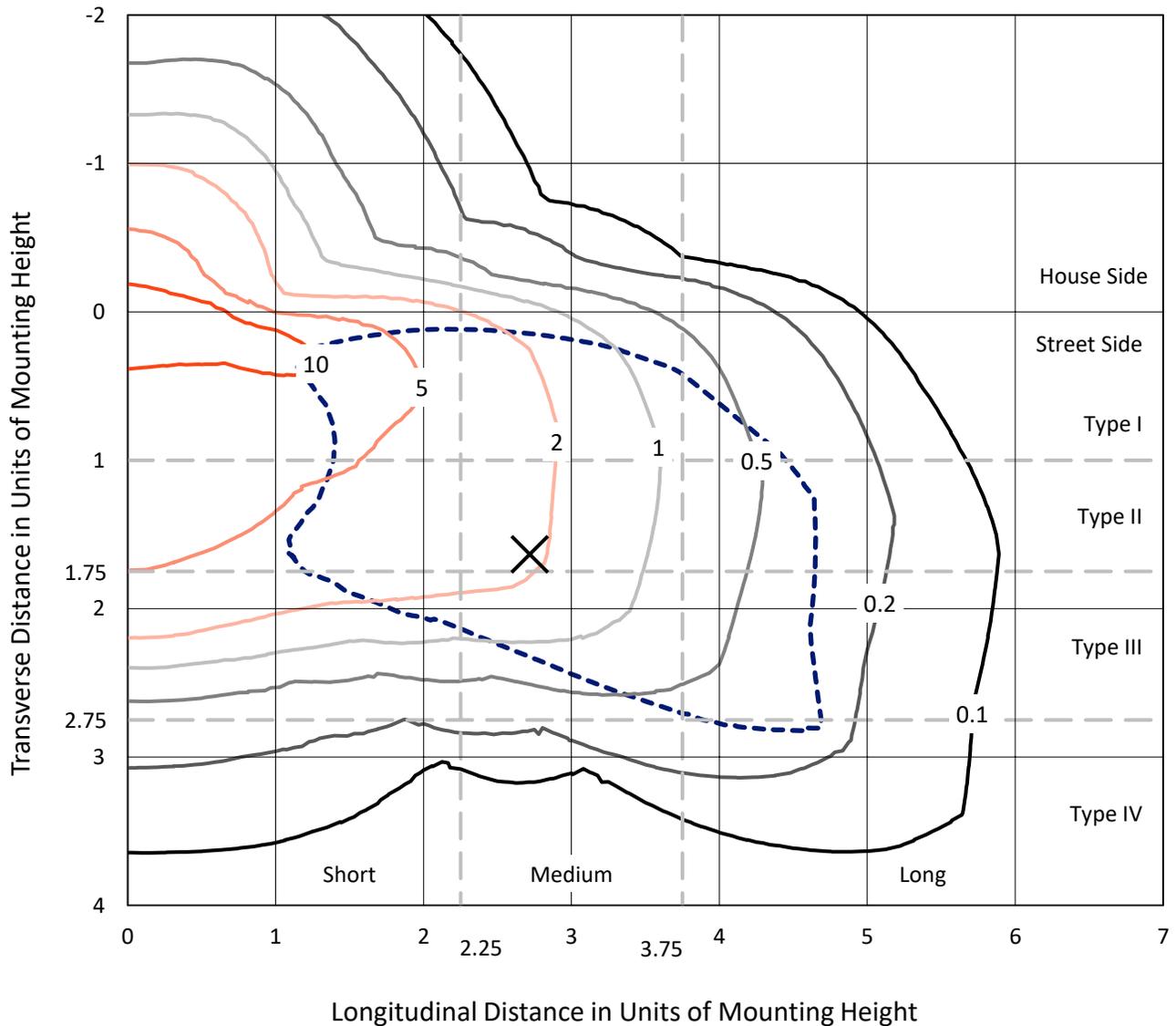


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

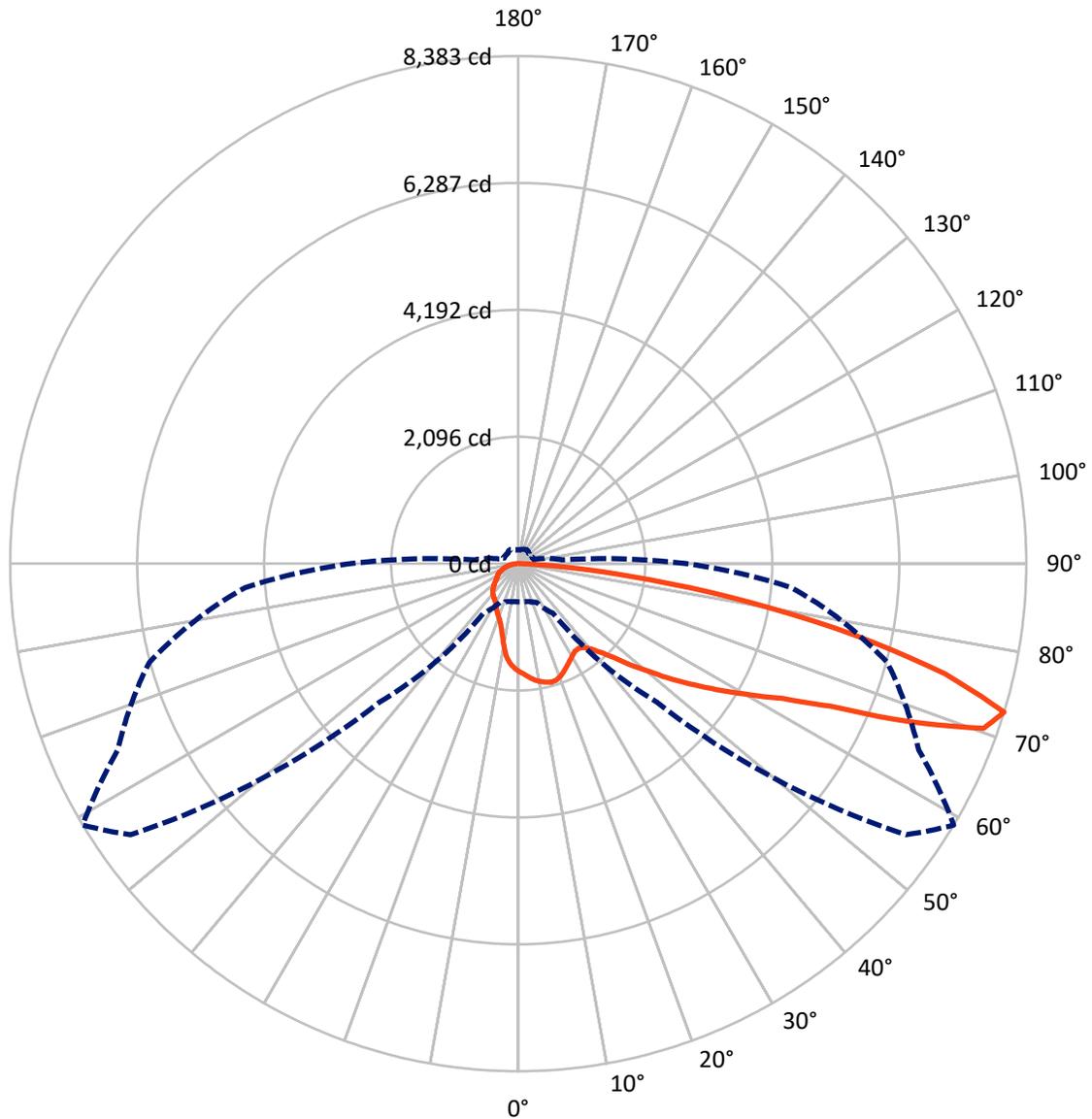


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc  
 Type III - Medium - N/A

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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
<b>House Side</b>	Lumens	1610.4	0.0	1610.4
	% Fixture	17.0	0.0	17.0
<b>Street Side</b>	Lumens	7853.6	0.0	7853.6
	% Fixture	83.0	0.0	83.0
<b>Total</b>	Lumens	9464.0	0.0	9464.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	1.7
10°-20°	408.8	4.3
20°-30°	601.2	6.4
30°-40°	826.0	8.7
40°-50°	1233.9	13.0
50°-60°	1880.4	19.9
60°-70°	2410.1	25.5
70°-80°	1666.1	17.6
80°-90°	277.2	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°	9464.0	100.0
0°-180°	9464.0	100.0



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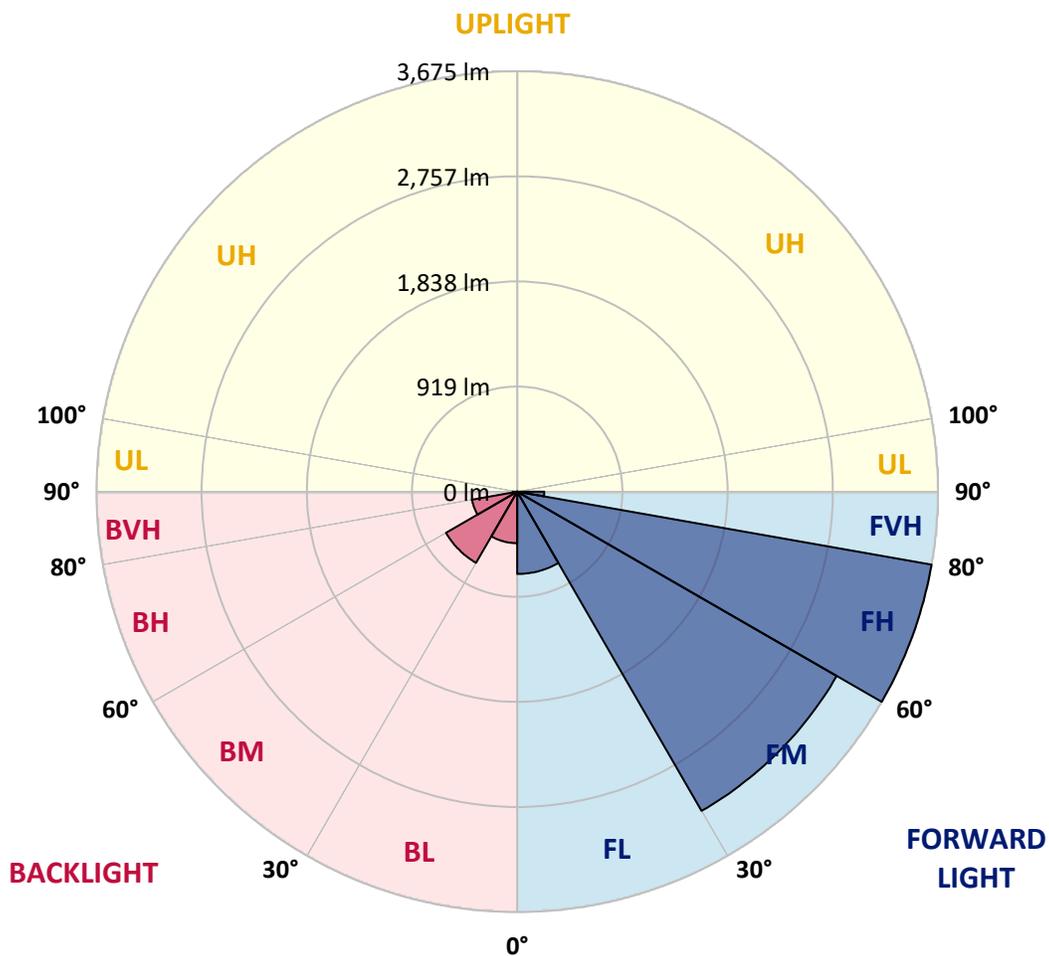
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.6	7.6			
FM	(30°-60°)	3222.1	34.0			
FH	(60°-80°)	3675.5	38.8			G2/5000
FVH	(80°-90°)	236.4	2.5			G3/500
BL	(0°-30°)	450.6	4.8	B1/500		
BM	(30°-60°)	718.3	7.6	B1/1000		
BH	(60°-80°)	400.8	4.2	B1/500		G1/500
BVH	(80°-90°)	40.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	1858.0	1852.7	1855.3	1859.3	1848.8	1850.1	1837.0	1826.5	1818.6	1813.3	1801.5
5°	1903.9	1890.8	1896.0	1907.8	1896.0	1906.5	1892.1	1884.2	1871.1	1863.2	1837.0
7.5°	1865.8	1856.6	1869.8	1899.9	1914.4	1941.9	1944.5	1939.3	1934.1	1917.0	1884.2
10°	1690.0	1684.8	1718.9	1798.9	1865.8	1932.7	1977.4	1977.4	1980.0	1968.2	1928.8
12.5°	1466.9	1463.0	1507.6	1606.0	1737.2	1890.8	1997.0	2008.8	2029.8	2025.9	1976.0
15°	1318.7	1316.0	1351.5	1430.2	1565.3	1783.2	1994.4	2033.8	2077.1	2086.3	2024.6
17.5°	1242.6	1242.6	1267.5	1327.9	1421.0	1633.6	1936.7	2023.3	2111.2	2154.5	2079.7
20°	1221.6	1219.0	1233.4	1270.1	1334.4	1499.7	1850.1	1986.5	2137.4	2209.6	2115.1
22.5°	1232.1	1229.4	1234.7	1253.1	1289.8	1410.5	1756.9	1931.4	2151.9	2258.1	2146.6
25°	1283.2	1280.6	1274.1	1272.7	1280.6	1368.5	1662.4	1869.8	2166.3	2327.7	2184.7
27.5°	1383.0	1375.1	1352.8	1331.8	1310.8	1359.3	1602.1	1814.7	2184.7	2385.4	2208.3
30°	1511.6	1508.9	1481.4	1442.0	1372.5	1380.3	1564.0	1763.5	2184.7	2430.0	2207.0
32.5°	1606.0	1607.3	1602.1	1578.5	1480.1	1427.6	1549.6	1721.5	2180.7	2491.7	2212.2
35°	1705.7	1705.7	1692.6	1692.6	1628.3	1519.4	1570.6	1717.6	2203.0	2594.0	2250.3
37.5°	1875.0	1872.4	1844.8	1817.3	1770.0	1667.7	1632.3	1755.6	2264.7	2758.1	2301.4
40°	2098.1	2103.3	2046.9	1970.8	1915.7	1839.6	1747.7	1852.7	2360.5	2953.6	2367.0
42.5°	2367.0	2381.5	2293.6	2188.6	2092.8	1993.1	1909.1	2007.5	2529.8	3231.7	2479.9
45°	2697.7	2683.3	2573.1	2432.7	2306.7	2137.4	2086.3	2208.3	2750.2	3608.3	2653.1
47.5°	2985.1	2992.9	2857.8	2704.3	2548.1	2313.3	2310.6	2502.2	3041.5	3994.1	2852.5
50°	3264.5	3288.2	3138.6	2977.2	2810.5	2510.1	2594.0	2793.5	3353.8	4387.7	3099.2
52.5°	3483.7	3499.4	3360.3	3221.2	3055.9	2769.9	2928.6	3167.4	3670.0	4764.3	3382.6
55°	3656.9	3679.2	3523.0	3407.6	3281.6	3053.3	3311.8	3536.1	3998.0	5114.6	3672.6
57.5°	3891.7	3904.8	3708.0	3607.0	3488.9	3376.1	3733.0	3950.8	4349.7	5412.5	3973.1
60°	4071.5	4079.4	3876.0	3844.5	3841.9	3820.9	4201.4	4395.6	4680.3	5690.6	4280.1
62.5°	3915.3	3915.3	3774.9	3862.9	4181.7	4551.7	4850.9	4908.6	5021.5	5960.9	4575.3
65°	3101.8	3133.3	3149.1	3444.3	4156.8	5299.6	5928.1	5673.6	5447.9	6208.9	4816.8
67.5°	1628.3	1691.3	1837.0	2346.1	3427.2	5572.5	7308.5	6971.3	6052.8	6375.6	4911.2
70°	829.3	847.6	923.7	1208.5	2157.1	4854.8	8128.5	8148.2	6774.4	6447.7	4843.0
72.5°	629.8	629.8	646.9	703.3	997.2	3238.3	7807.1	8383.1	7291.4	6302.1	4521.5
75°	524.8	531.4	565.5	573.4	503.9	1680.8	6332.3	7273.0	6741.6	5768.0	3949.5
77.5°	421.2	425.1	478.9	510.4	339.8	719.0	4617.3	5676.2	5198.6	4661.9	2781.7
80°	317.5	324.1	372.6	436.9	251.9	345.1	3111.0	3882.5	3252.7	2857.8	1284.6
82.5°	212.6	215.2	254.5	345.1	186.3	191.6	1833.0	2175.5	1581.1	1070.7	337.2
85°	129.9	132.5	158.8	223.1	123.3	102.3	813.5	841.1	499.9	254.5	120.7
87.5°	59.0	65.6	82.7	107.6	61.7	42.0	136.5	133.8	98.4	91.8	51.2
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°	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8	1781.8
2.5°	1784.5	1770.0	1755.6	1735.9	1718.9	1690.0	1670.3	1650.6	1640.1	1637.5	1633.6
5°	1816.0	1791.0	1749.0	1693.9	1633.6	1565.3	1501.1	1444.6	1406.6	1394.8	1400.0
7.5°	1852.7	1817.3	1734.6	1628.3	1506.3	1372.5	1259.6	1186.1	1140.2	1114.0	1119.2
10°	1885.5	1834.3	1703.1	1524.7	1316.0	1148.1	1058.9	1007.7	984.1	981.5	980.1
12.5°	1918.3	1851.4	1654.6	1376.4	1145.5	1013.0	968.3	953.9	951.3	953.9	952.6
15°	1956.4	1860.6	1571.9	1222.9	1024.8	956.5	942.1	938.2	939.5	946.0	944.7
17.5°	1987.8	1856.6	1443.3	1083.8	960.5	929.0	915.9	909.3	915.9	927.7	927.7
20°	1998.3	1818.6	1295.1	986.7	925.0	898.8	880.4	869.9	877.8	892.2	894.9
22.5°	1990.5	1746.4	1142.8	918.5	888.3	863.4	843.7	833.2	837.1	847.6	848.9
25°	1978.7	1651.9	1009.0	866.0	841.1	821.4	816.1	803.0	796.5	803.0	804.3
27.5°	1943.2	1527.3	898.8	812.2	788.6	791.2	788.6	776.8	767.6	766.3	768.9
30°	1864.5	1354.1	816.1	757.1	749.2	763.6	763.6	746.6	729.5	726.9	730.8
32.5°	1770.0	1177.0	747.9	711.2	726.9	734.8	734.8	720.3	703.3	692.8	698.0
35°	1676.9	1009.0	695.4	679.7	709.9	716.4	709.9	704.6	677.0	650.8	657.4
37.5°	1569.3	864.7	649.5	656.1	690.2	692.8	692.8	674.4	637.7	615.4	620.6
40°	1452.5	755.8	611.4	635.1	669.2	669.2	658.7	646.9	628.5	606.2	608.8
42.5°	1377.7	682.3	582.6	612.8	636.4	644.2	620.6	629.8	614.1	590.5	593.1
45°	1367.2	636.4	559.0	578.6	599.6	597.0	598.3	604.9	590.5	559.0	557.6
47.5°	1431.5	621.9	536.7	540.6	559.0	568.1	576.0	578.6	557.6	523.5	518.3
50°	1574.5	646.9	514.3	506.5	522.2	543.2	551.1	555.0	530.1	494.7	489.4
52.5°	1795.0	724.3	494.7	477.6	476.3	513.0	535.3	545.8	506.5	468.4	465.8
55°	2039.0	829.3	468.4	452.7	438.2	489.4	522.2	534.0	484.2	434.3	430.4
57.5°	2298.8	953.9	438.2	427.7	410.7	467.1	498.6	507.8	450.1	393.6	391.0
60°	2570.4	1065.4	409.4	400.2	391.0	436.9	469.7	472.4	418.6	362.1	359.5
62.5°	2815.8	1141.5	381.8	371.3	371.3	401.5	435.6	433.0	385.8	333.3	330.7
65°	2996.9	1132.4	356.9	343.8	349.0	363.5	393.6	384.4	350.3	305.7	303.1
67.5°	3070.3	1035.3	333.3	318.8	320.2	324.1	349.0	342.5	314.9	278.2	276.9
70°	2994.2	860.7	303.1	284.7	282.1	283.4	308.3	296.5	276.9	253.2	251.9
72.5°	2767.2	721.7	269.0	253.2	248.0	244.1	265.0	259.8	245.4	225.7	227.0
75°	2426.1	623.3	232.2	221.7	212.6	208.6	225.7	223.1	212.6	199.4	199.4
77.5°	1695.2	455.3	191.6	187.6	182.4	174.5	187.6	188.9	182.4	178.4	177.1
80°	734.8	254.5	150.9	153.5	147.0	141.7	152.2	153.5	158.8	153.5	154.8
82.5°	212.6	126.0	108.9	116.8	114.2	108.9	114.2	126.0	118.1	103.7	106.3
85°	78.7	60.4	68.2	73.5	69.5	55.1	72.2	82.7	74.8	69.5	70.9
87.5°	30.2	22.3	28.9	24.9	19.7	14.4	24.9	27.6	36.7	14.4	11.8
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)