

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: P1209149

Luminaire Tested: UPW-SA2-090-827-U-SL2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-1)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-SL2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8409 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - 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

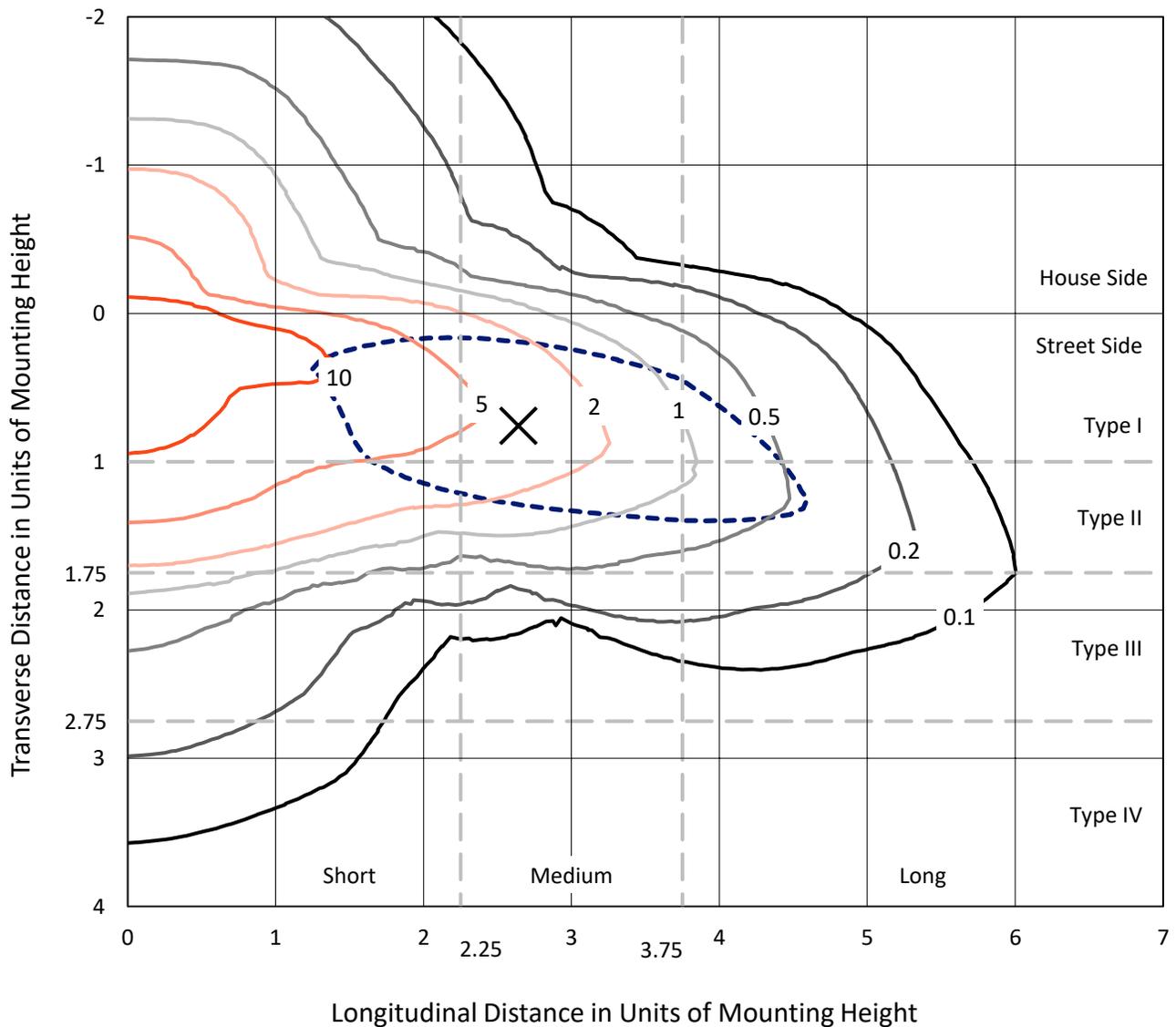


REPORT NUMBER: P1209149

CATALOG NUMBER: UPW-SA2-090-827-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

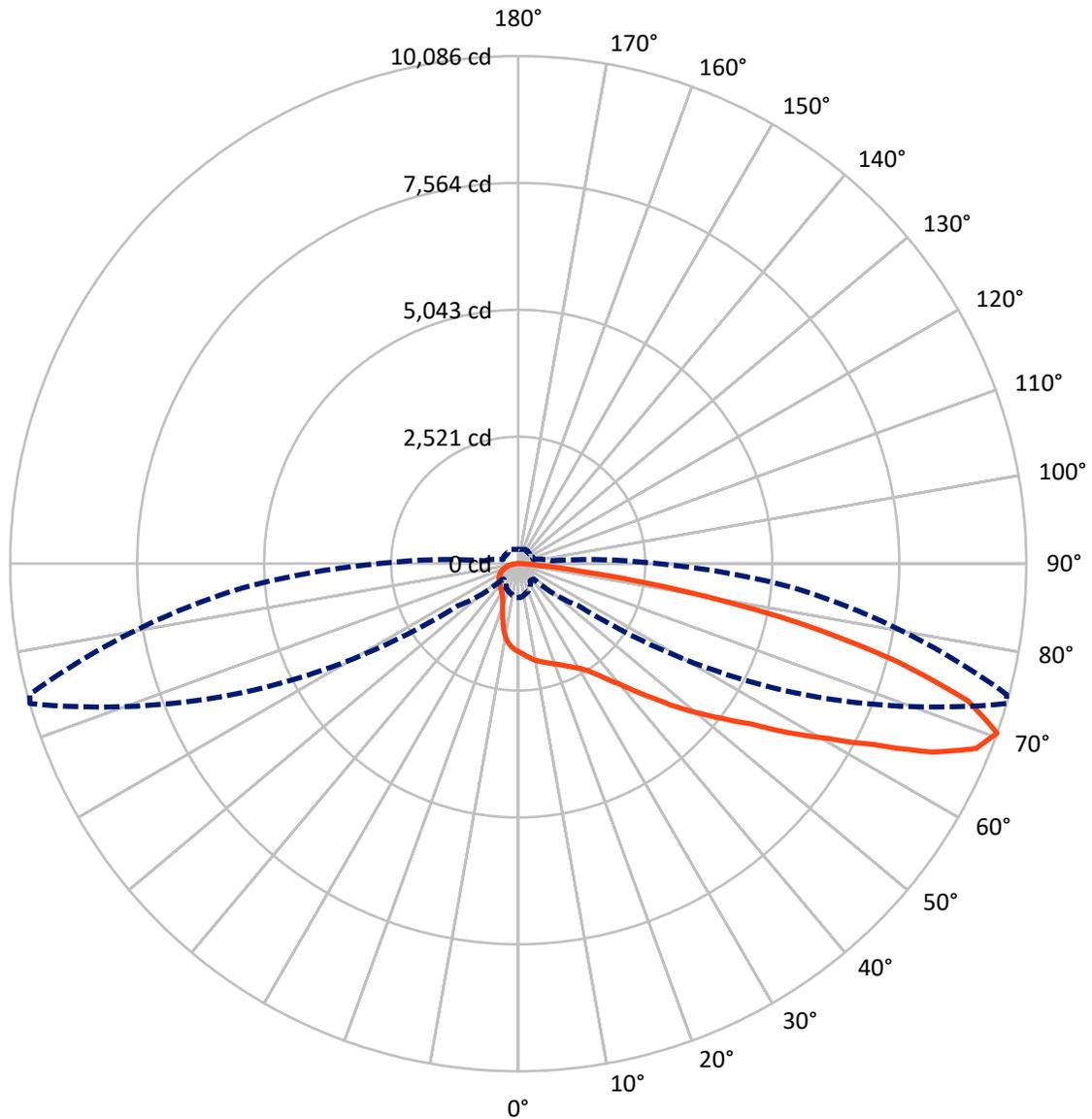


Based on 10 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P1209149

CATALOG NUMBER: UPW-SA2-090-827-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P1209149

CATALOG NUMBER: UPW-SA2-090-827-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.1	0.0	1539.1
	% Fixture	18.3	0.0	18.3
<b>Street Side</b>	Lumens	6869.8	0.0	6869.8
	% Fixture	81.7	0.0	81.7
<b>Total</b>	Lumens	8409.0	0.0	8409.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	1.8
10°-20°	404.6	4.8
20°-30°	640.6	7.6
30°-40°	954.6	11.4
40°-50°	1316.3	15.7
50°-60°	1765.3	21.0
60°-70°	1832.1	21.8
70°-80°	1159.3	13.8
80°-90°	182.5	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°	8409.0	100.0
0°-180°	8409.0	100.0



REPORT NUMBER: P1209149

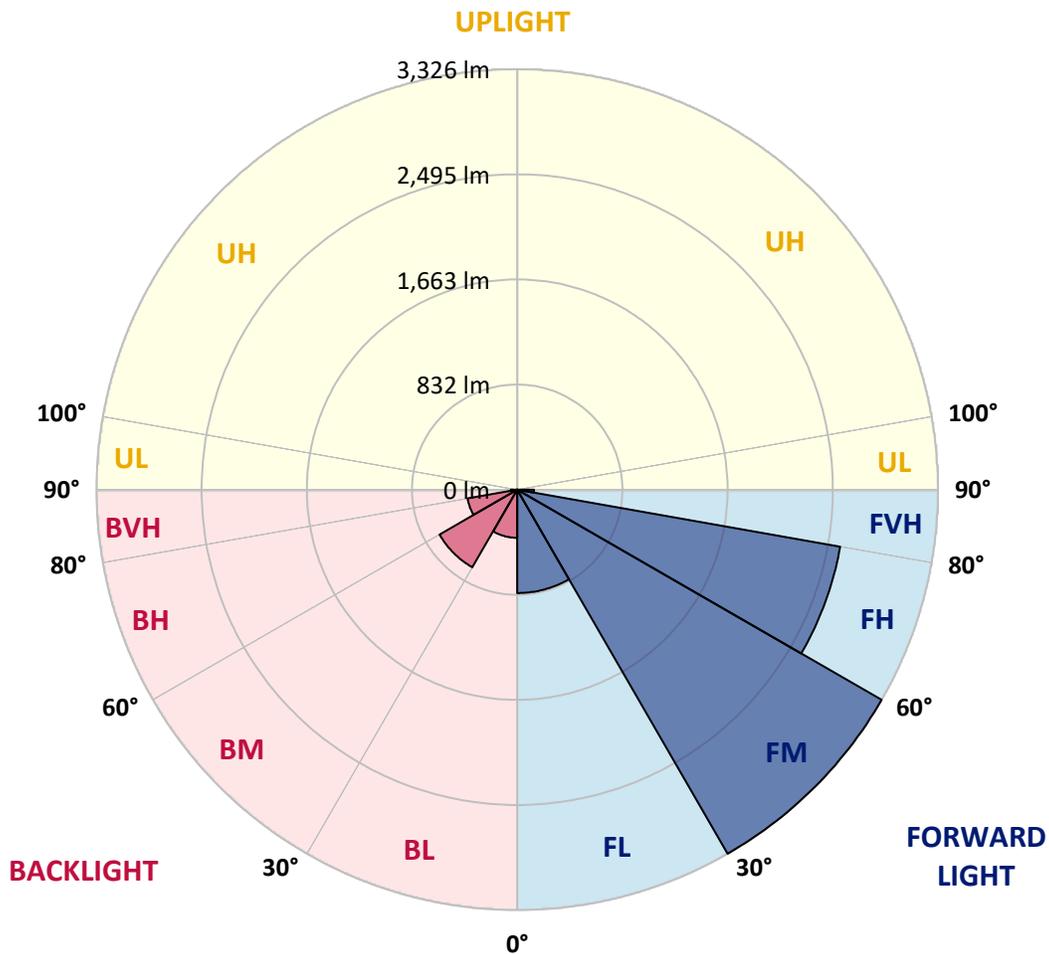
CATALOG NUMBER: UPW-SA2-090-827-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.0	9.7			
FM (30°-60°)	3326.5	39.6			
FH (60°-80°)	2592.7	30.8			G2/5000
FVH (80°-90°)	132.6	1.6			G2/225
BL (0°-30°)	381.0	4.5	B1/500		
BM (30°-60°)	709.7	8.4	B1/1000		
BH (60°-80°)	398.6	4.7	B1/500		G1/500
BVH (80°-90°)	49.9	0.6			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 II Medium





REPORT NUMBER: P1209149

CATALOG NUMBER: UPW-SA2-090-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1
2.5°	1872.4	1869.6	1863.0	1863.0	1860.2	1853.6	1834.8	1815.0	1796.2	1794.3	1769.9
5°	1949.6	1944.9	1943.9	1943.9	1940.2	1933.6	1908.2	1880.9	1853.6	1848.0	1803.7
7.5°	1986.3	1982.5	1983.5	1988.2	1995.7	1990.1	1967.5	1943.9	1907.3	1902.5	1836.7
10°	1966.5	1969.4	1980.6	2007.0	2025.8	2036.2	2017.3	1995.7	1958.1	1952.4	1863.0
12.5°	1841.4	1849.9	1885.6	1953.4	2024.9	2064.4	2063.4	2040.9	1995.7	1991.0	1883.7
15°	1652.3	1641.9	1707.8	1816.0	1945.8	2057.8	2094.5	2084.1	2039.0	2032.4	1908.2
17.5°	1559.1	1560.1	1589.2	1656.0	1799.0	2004.2	2111.4	2127.4	2085.1	2076.6	1935.5
20°	1596.7	1595.8	1598.6	1621.2	1689.9	1895.0	2112.4	2174.5	2130.2	2124.6	1959.9
22.5°	1704.0	1700.2	1691.8	1673.0	1674.8	1798.1	2099.2	2226.2	2187.6	2176.4	1976.9
25°	1853.6	1844.2	1816.9	1774.6	1729.4	1768.9	2065.3	2286.4	2253.5	2241.3	1994.8
27.5°	2023.9	2022.0	1992.9	1912.0	1826.3	1805.6	2026.7	2352.3	2331.6	2314.7	2014.5
30°	2199.9	2189.5	2162.2	2075.7	1967.5	1885.6	2015.5	2424.8	2414.4	2392.8	2030.5
32.5°	2295.9	2291.1	2273.3	2220.6	2126.5	2001.3	2048.4	2499.1	2533.0	2517.0	2065.3
35°	2372.1	2363.6	2344.8	2323.1	2275.2	2153.8	2124.6	2588.5	2709.9	2681.6	2139.7
37.5°	2444.5	2435.1	2421.9	2401.2	2370.2	2299.6	2235.6	2710.8	2933.8	2914.0	2252.6
40°	2525.4	2515.1	2498.2	2484.0	2440.8	2419.1	2340.1	2827.5	3173.7	3164.3	2388.1
42.5°	2586.6	2575.3	2566.8	2557.4	2510.4	2469.9	2421.9	2938.5	3497.4	3473.9	2567.8
45°	2631.8	2625.2	2625.2	2613.9	2582.8	2471.8	2479.3	3087.2	3845.6	3838.0	2816.2
47.5°	2680.7	2672.2	2676.9	2666.6	2657.2	2473.7	2549.9	3285.7	4264.3	4257.7	3093.8
50°	2739.0	2730.6	2749.4	2734.3	2738.1	2530.1	2650.6	3534.1	4678.3	4662.3	3389.2
52.5°	2746.6	2744.7	2791.7	2825.6	2852.9	2659.0	2820.9	3830.5	5130.9	5130.9	3733.6
55°	2594.1	2590.4	2681.6	2825.6	2979.0	2906.5	3137.0	4294.4	5631.4	5644.6	4040.3
57.5°	2106.7	2124.6	2278.9	2562.1	2972.4	3259.4	3604.7	4858.9	6337.1	6293.8	4341.4
60°	1339.9	1366.2	1489.5	1879.0	2528.3	3318.6	4108.1	5575.9	7053.2	6970.4	4739.4
62.5°	885.4	862.8	864.7	1048.2	1626.9	2788.9	4206.9	6425.6	7916.9	7856.7	5093.2
65°	787.6	771.6	691.6	643.6	790.4	1741.6	3577.4	7038.1	9027.2	8858.8	5364.2
67.5°	747.1	731.1	656.8	582.4	497.7	890.1	2542.4	6925.2	9802.5	9696.2	5564.6
70°	676.5	667.1	606.9	549.5	415.9	430.0	1466.9	6079.3	10085.8	10034.9	5473.3
72.5°	588.1	576.8	536.3	496.8	365.1	317.1	703.8	4819.4	9341.5	9337.7	5086.6
75°	481.8	472.3	439.4	426.2	308.6	259.7	399.9	3384.5	7782.4	7741.0	4521.1
77.5°	394.2	381.1	358.5	348.1	255.9	208.9	281.3	2362.7	5743.4	5635.2	3164.3
80°	286.0	277.6	255.9	280.4	202.3	161.8	208.9	1469.7	3375.1	3154.9	1185.6
82.5°	174.1	157.1	176.9	214.5	149.6	115.7	153.4	819.5	1210.0	1063.2	353.8
85°	80.9	82.8	103.5	137.4	89.4	67.7	96.0	358.5	351.0	335.9	148.7
87.5°	13.2	14.1	39.5	60.2	37.6	22.6	38.6	79.0	132.7	136.4	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209149

CATALOG NUMBER: UPW-SA2-090-827-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1	1751.1
2.5°	1754.8	1739.8	1712.5	1682.4	1648.5	1617.4	1604.3	1561.0	1550.6	1547.8	1526.2
5°	1772.7	1739.8	1668.3	1583.6	1484.8	1395.4	1296.6	1217.6	1173.3	1169.6	1175.2
7.5°	1790.6	1738.8	1608.0	1436.8	1261.8	1088.6	983.3	921.2	877.9	867.5	870.4
10°	1800.0	1725.7	1515.8	1252.4	1010.6	884.5	824.2	802.6	796.0	790.4	790.4
12.5°	1801.9	1696.5	1393.5	1053.8	862.8	801.7	784.7	779.1	778.1	777.2	775.3
15°	1803.7	1659.8	1237.3	900.5	796.0	776.3	769.7	768.7	770.6	769.7	769.7
17.5°	1801.9	1609.9	1085.8	812.0	771.6	764.0	760.3	759.3	762.1	761.2	760.3
20°	1795.3	1545.9	938.1	766.9	754.6	752.7	748.0	744.3	748.0	749.0	748.0
22.5°	1769.9	1451.8	831.8	738.6	738.6	738.6	733.0	728.3	734.9	736.7	737.7
25°	1730.4	1338.9	752.7	715.1	719.8	717.9	717.9	717.0	723.6	725.5	726.4
27.5°	1689.0	1221.3	697.2	689.7	697.2	701.9	710.4	711.3	711.3	709.5	708.5
30°	1636.3	1093.4	661.5	667.1	677.5	694.4	709.5	707.6	701.0	694.4	695.3
32.5°	1593.9	989.9	626.7	647.4	666.2	690.6	703.8	706.6	705.7	694.4	694.4
35°	1577.9	907.0	603.1	630.4	658.6	681.2	686.9	699.1	697.2	683.1	682.2
37.5°	1588.3	840.2	582.4	612.5	647.4	658.6	670.9	673.7	650.2	635.1	631.4
40°	1610.9	791.3	563.6	590.0	628.5	637.9	654.9	629.5	609.7	597.5	599.4
42.5°	1673.9	770.6	546.7	564.6	600.3	622.0	615.4	607.8	580.5	560.8	558.9
45°	1773.6	769.7	531.6	538.2	568.3	590.9	590.0	581.5	552.3	531.6	528.8
47.5°	1910.1	788.5	515.6	513.7	538.2	552.3	565.5	552.3	522.2	498.7	495.9
50°	2072.9	837.4	500.6	488.3	505.3	526.9	533.5	524.1	495.9	473.3	470.5
52.5°	2268.6	905.2	487.4	465.8	470.5	500.6	515.6	507.2	475.2	450.7	446.9
55°	2458.6	969.2	469.5	442.2	434.7	476.1	499.6	498.7	451.6	426.2	424.4
57.5°	2653.4	1029.4	449.8	422.5	410.2	449.8	482.7	486.5	427.2	399.9	399.9
60°	2851.0	1071.7	425.3	401.8	395.2	420.6	457.3	458.2	405.5	384.8	386.7
62.5°	3012.8	1046.3	400.8	382.0	377.3	392.4	429.1	437.5	403.7	381.1	383.0
65°	3081.5	961.6	373.5	363.2	355.7	361.3	395.2	405.5	369.8	344.4	347.2
67.5°	3037.3	838.4	346.3	341.6	331.2	329.3	351.0	357.6	331.2	315.2	313.3
70°	2774.8	669.0	313.3	313.3	303.9	295.4	306.7	312.4	291.7	282.3	284.2
72.5°	2401.2	543.9	281.3	285.1	271.9	260.6	267.2	270.0	257.8	253.1	251.2
75°	2077.6	454.5	249.3	255.0	240.9	223.0	230.5	230.5	220.2	219.2	218.3
77.5°	1514.9	341.6	214.5	221.1	209.8	187.2	189.1	190.1	186.3	186.3	187.2
80°	648.3	208.9	175.0	185.4	174.1	146.8	152.4	152.4	161.8	185.4	181.6
82.5°	215.5	124.2	132.7	145.8	133.6	109.1	115.7	124.2	160.0	153.4	145.8
85°	92.2	68.7	84.7	92.2	85.6	65.9	75.3	129.8	118.6	114.8	115.7
87.5°	31.1	29.2	35.8	42.3	30.1	20.7	38.6	79.0	77.2	58.3	56.5
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)