

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: P1209031

Luminaire Tested: UPW-SA2-090-730-U-T3R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-730-U-T3R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 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: 11105 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

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

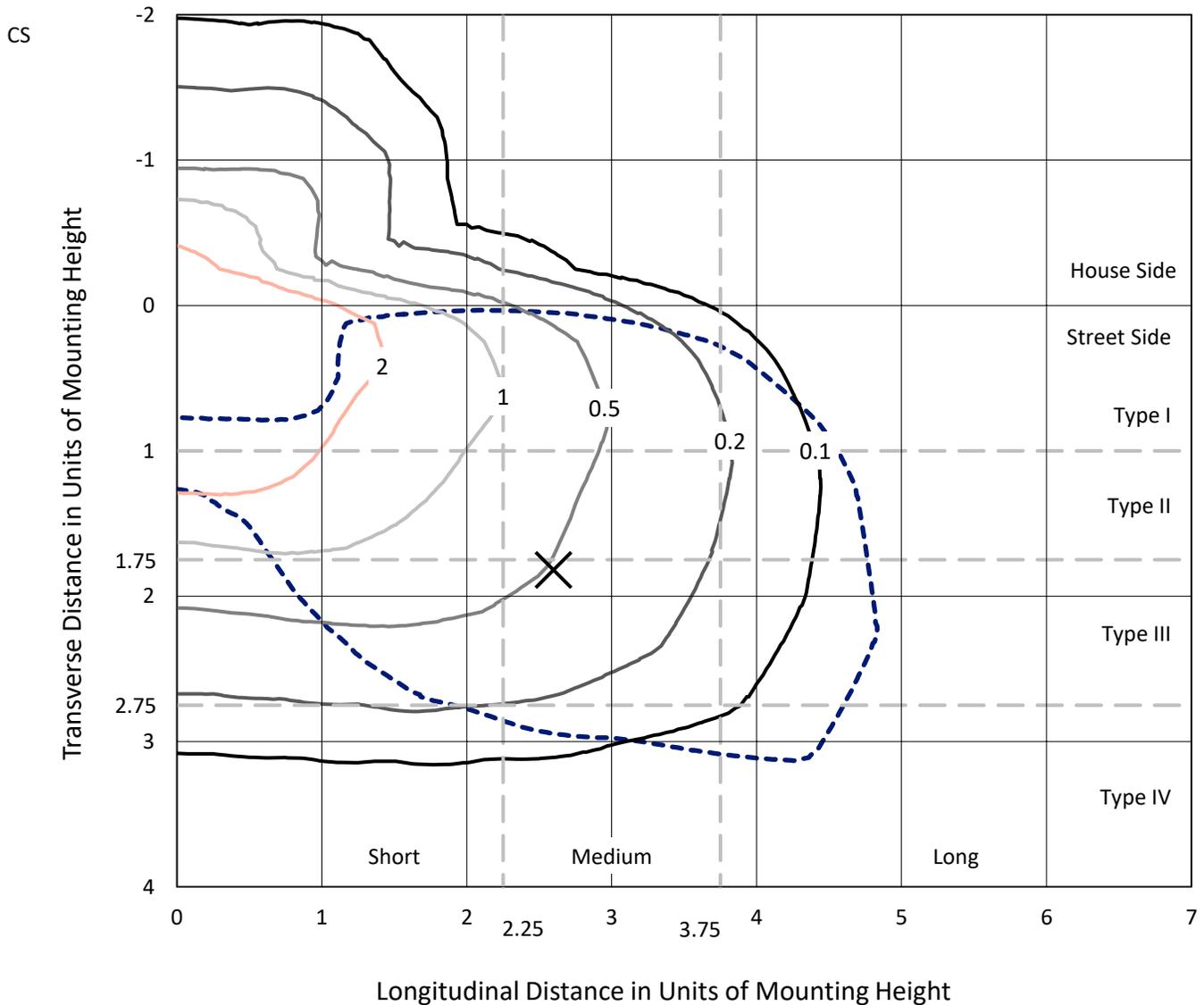


REPORT NUMBER: P1209031

CATALOG NUMBER: UPW-SA2-090-730-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

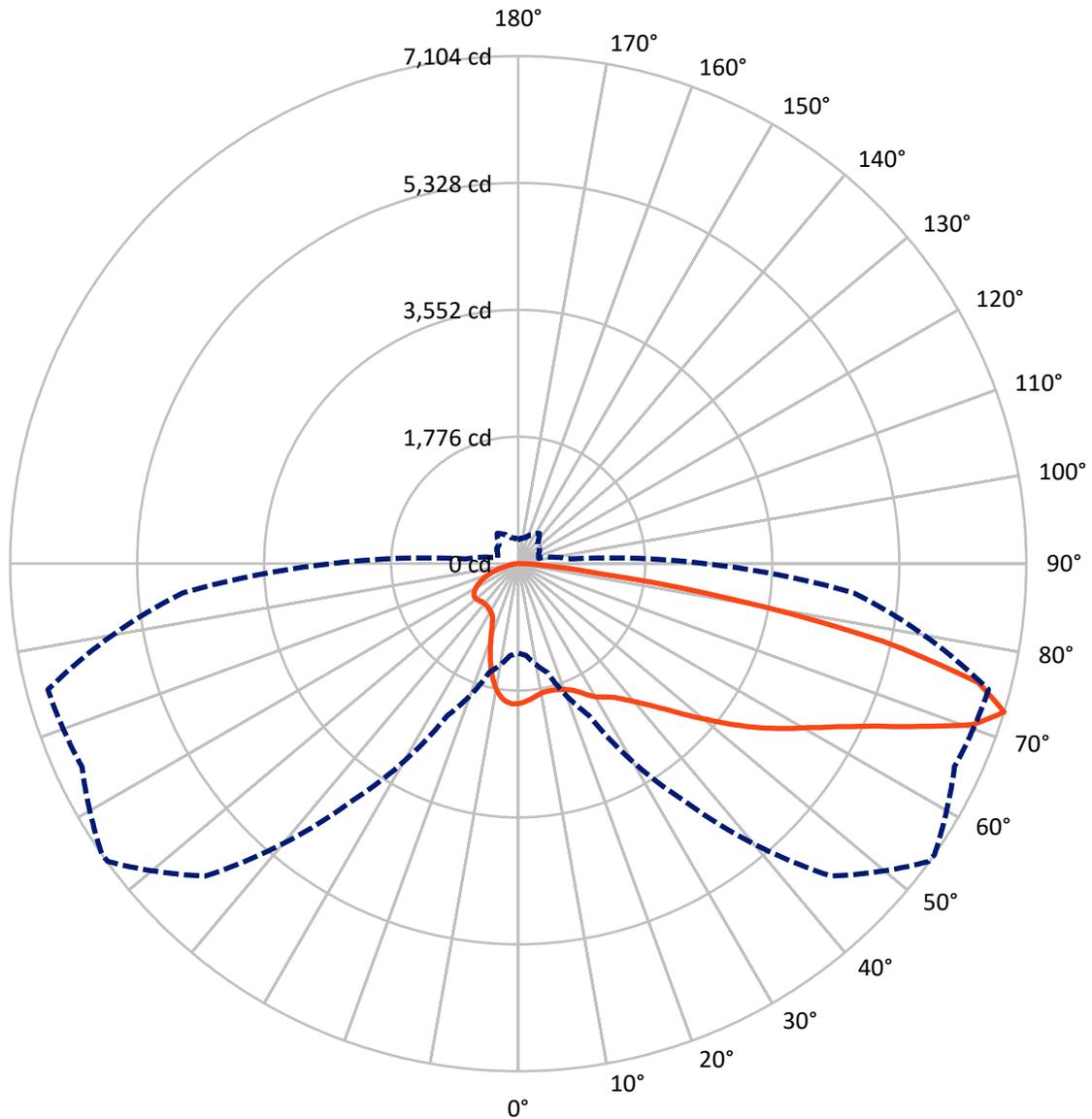
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P1209031  
CATALOG NUMBER: UPW-SA2-090-730-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P1209031

CATALOG NUMBER: UPW-SA2-090-730-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2064.1	0.0	2064.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	9040.9	0.0	9040.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	11105.0	0.0	11105.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.2	1.6
10°-20°	471.9	4.2
20°-30°	778.0	7.0
30°-40°	1150.9	10.4
40°-50°	1606.4	14.5
50°-60°	2091.5	18.8
60°-70°	2570.4	23.1
70°-80°	2014.9	18.1
80°-90°	243.8	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°	11105.0	100.0
0°-180°	11105.0	100.0



REPORT NUMBER: P1209031

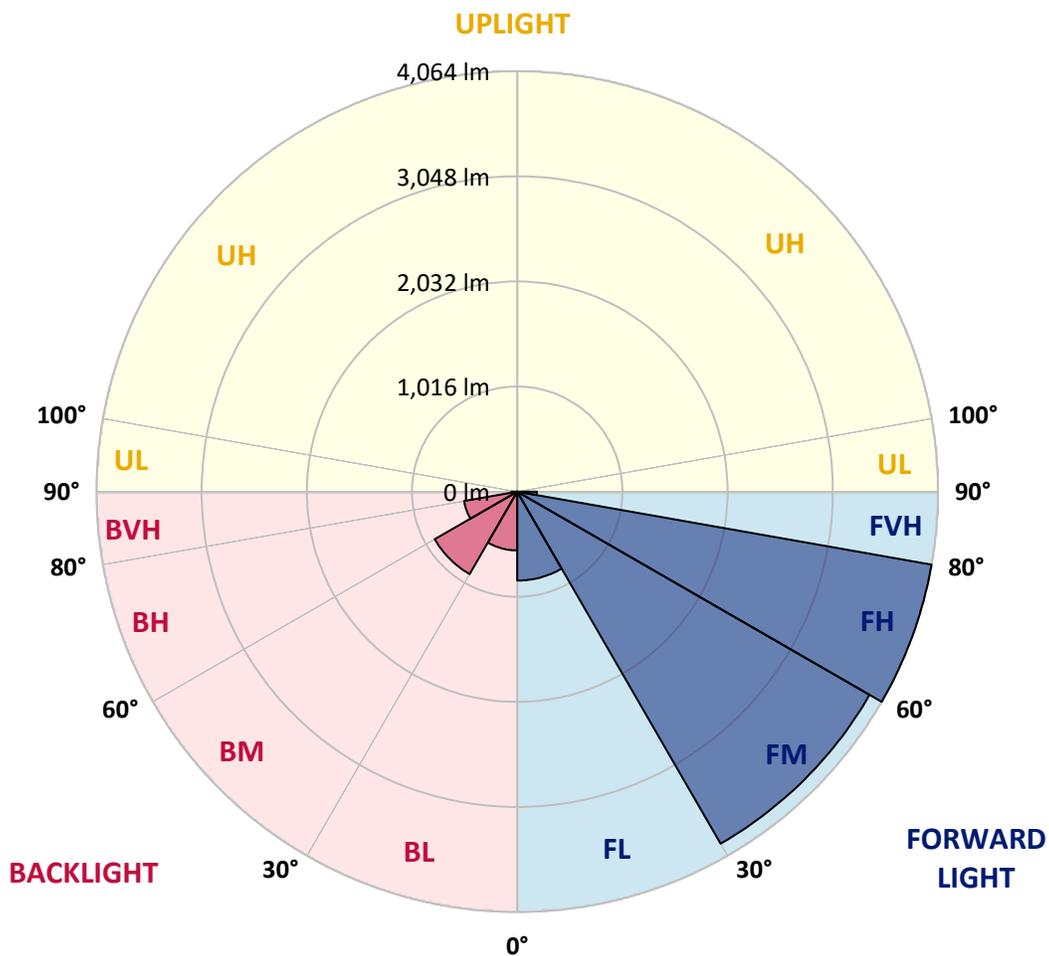
CATALOG NUMBER: UPW-SA2-090-730-U-T3R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	859.2	7.7			
FM	(30°-60°)	3929.2	35.4			
FH	(60°-80°)	4064.1	36.6			G2/5000
FVH	(80°-90°)	188.5	1.7			G2/225
BL	(0°-30°)	567.9	5.1	B2/1000		
BM	(30°-60°)	919.6	8.3	B1/1000		
BH	(60°-80°)	521.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	55.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





REPORT NUMBER: P1209031

CATALOG NUMBER: UPW-SA2-090-730-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7
2.5°	1894.9	1890.4	1896.0	1903.9	1912.5	1924.2	1930.9	1933.9	1945.6	1950.1	1959.8
5°	1807.1	1804.9	1814.3	1827.8	1846.9	1873.9	1895.7	1899.8	1930.6	1952.3	1972.2
7.5°	1743.4	1743.4	1754.3	1770.4	1791.8	1828.2	1858.9	1864.5	1916.7	1963.6	2000.3
10°	1692.7	1694.6	1707.4	1726.5	1751.6	1790.3	1831.2	1837.5	1912.9	1989.8	2048.3
12.5°	1659.0	1663.5	1675.1	1692.4	1723.5	1770.4	1822.2	1830.8	1920.8	2027.3	2106.1
15°	1680.4	1687.9	1689.0	1696.1	1713.4	1764.4	1827.4	1836.4	1937.7	2065.6	2171.7
17.5°	1774.1	1776.8	1765.1	1750.1	1741.9	1774.5	1843.2	1852.5	1957.9	2103.5	2234.7
20°	1916.7	1915.2	1890.0	1849.5	1807.5	1812.8	1869.0	1878.8	1985.3	2136.8	2297.8
22.5°	2096.7	2091.5	2052.8	1978.2	1906.5	1876.5	1914.4	1922.7	2026.6	2184.5	2365.3
25°	2315.0	2303.4	2252.4	2152.2	2046.8	1969.6	1982.7	1990.6	2086.6	2237.7	2427.2
27.5°	2545.3	2533.7	2468.8	2347.6	2207.4	2087.0	2076.8	2083.6	2154.9	2277.1	2472.9
30°	2786.1	2773.7	2714.5	2578.7	2377.7	2208.5	2164.6	2167.2	2202.9	2298.5	2510.4
32.5°	3028.0	3016.4	2950.0	2792.5	2562.6	2339.0	2228.0	2224.6	2231.7	2320.6	2552.8
35°	3273.3	3277.8	3200.2	3025.8	2767.4	2484.2	2303.0	2295.9	2280.1	2366.0	2612.8
37.5°	3535.9	3532.9	3432.4	3250.1	2981.5	2641.7	2410.7	2409.5	2355.1	2451.9	2707.0
40°	3711.4	3713.3	3652.2	3479.6	3198.0	2816.1	2548.7	2546.1	2474.8	2580.6	2830.4
42.5°	3780.1	3792.5	3808.2	3698.7	3424.5	3018.3	2713.3	2709.6	2641.7	2765.1	2975.5
45°	3785.0	3809.7	3907.2	3893.4	3654.1	3249.7	2923.8	2913.3	2864.5	3010.4	3148.8
47.5°	3743.0	3768.5	3930.5	4009.3	3859.2	3493.9	3169.8	3161.6	3119.6	3317.2	3336.4
50°	3651.1	3675.4	3882.5	4065.9	4028.0	3728.7	3453.4	3431.6	3409.1	3671.7	3550.9
52.5°	3478.9	3525.8	3818.3	4079.4	4128.9	3937.2	3751.6	3737.3	3749.7	4045.6	3765.8
55°	3071.2	3123.7	3652.9	4068.1	4203.6	4112.4	4049.8	4049.0	4113.2	4438.0	3996.5
57.5°	2842.8	2879.9	3316.1	4049.0	4292.1	4286.4	4345.0	4352.1	4477.0	4865.2	4238.1
60°	2713.7	2752.7	3145.4	3978.1	4429.4	4511.5	4646.2	4660.4	4846.8	5338.2	4528.8
62.5°	2596.3	2639.1	3039.7	3833.7	4591.0	4833.3	5007.0	5019.7	5238.4	5824.3	4809.7
65°	2395.7	2444.0	2884.8	3738.8	4738.0	5253.0	5465.7	5474.3	5688.1	6333.7	5024.6
67.5°	2112.1	2156.4	2592.6	3529.2	4846.8	5762.8	6075.6	6080.5	6134.1	6693.4	5134.5
70°	1780.9	1797.8	2176.2	3096.3	4718.2	6239.5	6744.0	6745.1	6540.7	6923.7	5116.5
72.5°	1251.3	1291.0	1579.8	2343.9	4054.6	6181.4	7090.9	7103.7	6729.7	6807.4	4707.7
75°	767.4	809.4	991.0	1420.4	2572.3	4861.4	6551.6	6640.1	6375.3	6069.6	3845.7
77.5°	513.1	528.9	646.6	828.2	1165.4	2797.0	5037.0	5203.5	5296.2	4426.4	2459.4
80°	286.2	316.2	428.7	514.6	518.4	1111.4	3020.2	3059.2	2946.7	1762.5	758.8
82.5°	151.5	168.0	286.2	302.3	282.8	372.1	1125.6	1126.7	941.5	472.6	225.4
85°	117.4	131.3	196.2	184.5	144.4	165.0	371.3	391.6	320.3	193.5	73.5
87.5°	58.5	72.8	133.2	117.0	56.6	47.3	132.8	141.8	126.4	75.8	26.6
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: P1209031

CATALOG NUMBER: UPW-SA2-090-730-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7
2.5°	1963.6	1966.9	1971.1	1966.6	1965.1	1959.1	1948.9	1946.7	1941.4	1941.8	1944.8
5°	1980.8	1986.4	1984.2	1966.9	1946.3	1917.4	1887.4	1861.9	1845.0	1843.9	1842.8
7.5°	2013.8	2017.6	1999.9	1950.8	1893.0	1826.3	1763.3	1708.1	1674.7	1666.5	1664.6
10°	2065.6	2064.8	2016.4	1917.4	1802.3	1683.0	1581.7	1505.2	1460.6	1447.4	1444.1
12.5°	2123.3	2114.7	2022.1	1856.7	1674.0	1508.6	1380.3	1295.2	1248.7	1233.6	1229.9
15°	2183.0	2161.6	2008.2	1765.9	1516.5	1320.7	1186.0	1107.2	1082.1	1073.9	1072.4
17.5°	2238.5	2197.2	1968.4	1642.9	1336.8	1133.5	1028.5	997.0	1003.0	1013.8	1014.2
20°	2292.9	2221.2	1904.7	1487.6	1147.4	979.3	943.7	967.0	995.5	1017.6	1020.6
22.5°	2346.5	2238.1	1822.5	1308.3	977.8	892.7	917.8	960.2	992.8	1016.8	1021.0
25°	2391.5	2242.2	1709.3	1117.0	860.1	860.1	905.5	945.6	977.8	1001.5	1005.6
27.5°	2408.0	2214.5	1549.5	940.0	800.8	845.1	888.2	921.6	949.0	974.1	978.6
30°	2414.4	2163.1	1364.9	797.8	776.4	828.9	864.9	893.4	919.3	943.0	947.1
32.5°	2415.5	2101.2	1169.1	717.2	759.5	812.1	836.1	861.2	888.9	898.3	899.8
35°	2422.7	2028.1	962.8	675.9	743.8	796.3	815.4	833.4	788.4	791.8	794.8
37.5°	2443.3	1955.7	790.3	652.6	733.7	788.0	810.9	745.7	710.4	702.2	701.0
40°	2481.9	1878.4	662.4	633.9	729.9	792.2	782.0	696.2	635.4	590.0	583.3
42.5°	2535.6	1795.1	580.6	621.5	732.5	812.1	741.9	648.5	547.6	518.4	514.6
45°	2595.9	1707.8	536.4	612.9	741.5	827.4	733.7	585.1	506.7	484.6	482.7
47.5°	2654.5	1600.9	513.5	609.1	753.9	815.1	698.8	565.6	487.2	475.6	476.7
50°	2721.6	1504.5	499.6	605.0	764.8	807.2	659.4	555.5	479.7	494.0	509.0
52.5°	2778.2	1404.7	487.2	596.8	768.9	793.3	649.3	557.4	479.7	507.1	521.4
55°	2845.4	1329.3	473.0	579.5	761.0	753.9	642.1	568.6	485.4	468.1	469.6
57.5°	2932.0	1304.5	457.2	552.5	734.8	696.5	638.8	579.5	482.0	471.1	474.9
60°	3052.0	1330.8	450.8	517.2	693.9	651.5	639.1	573.9	458.4	439.6	440.0
62.5°	3166.5	1360.1	450.5	495.1	643.6	611.4	630.5	555.5	446.3	435.5	439.6
65°	3204.0	1330.4	432.5	470.4	587.0	563.4	614.8	536.0	437.3	420.8	420.1
67.5°	3153.7	1238.5	396.1	430.2	522.1	507.5	594.1	512.7	423.1	409.6	407.3
70°	3004.4	1033.4	351.1	377.3	448.2	444.5	561.5	485.7	404.0	392.3	382.6
72.5°	2602.7	736.3	295.9	313.9	365.0	377.0	516.5	450.5	377.0	351.8	336.8
75°	2137.6	545.0	243.1	246.8	277.2	309.8	454.6	409.2	345.1	302.3	290.7
77.5°	1309.0	333.4	193.5	195.0	198.8	247.2	374.3	363.1	304.6	252.1	243.8
80°	423.8	181.9	139.9	147.0	135.8	181.2	289.6	309.1	261.4	210.8	201.8
82.5°	161.3	106.1	94.5	99.4	94.1	121.5	211.2	247.6	214.2	173.3	141.0
85°	78.0	60.0	55.9	62.6	58.1	62.3	135.0	182.3	162.4	112.9	105.0
87.5°	27.8	26.6	21.4	28.9	24.8	22.1	41.3	91.9	107.3	77.6	69.4
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)