

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: P1209094

Luminaire Tested: UPW-SA2-090-750-U-SL2-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-750-U-SL2-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8370 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

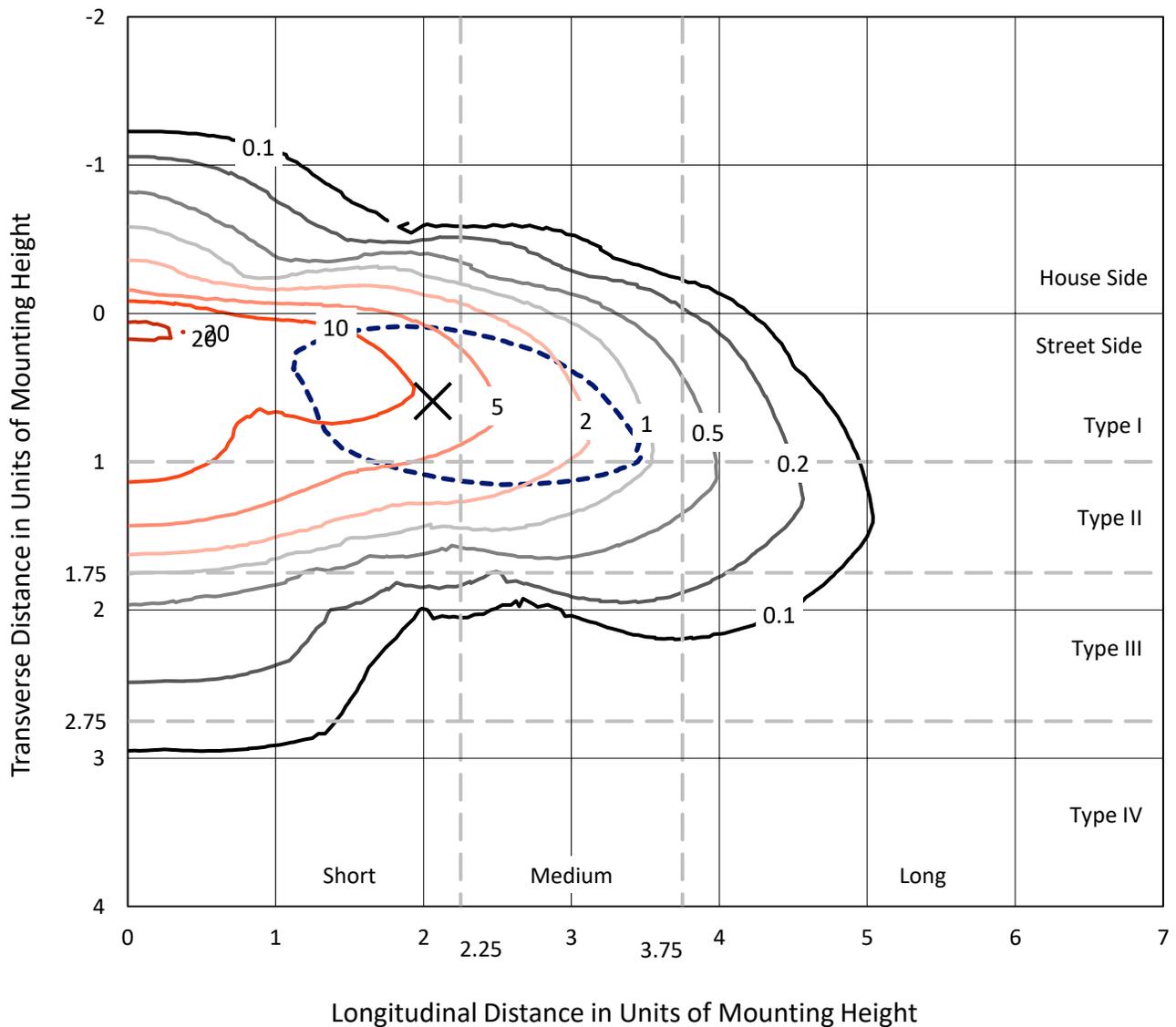
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

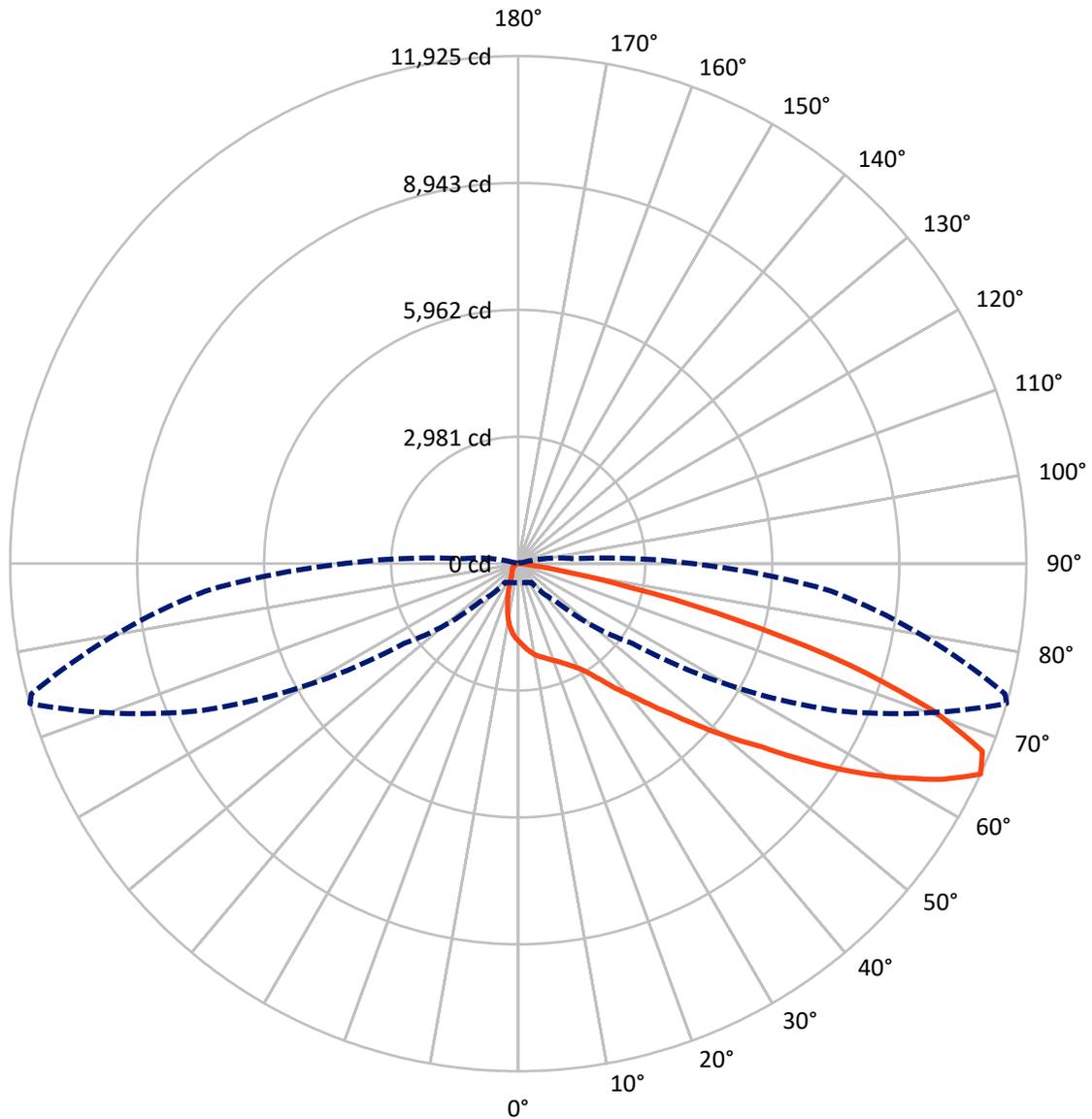
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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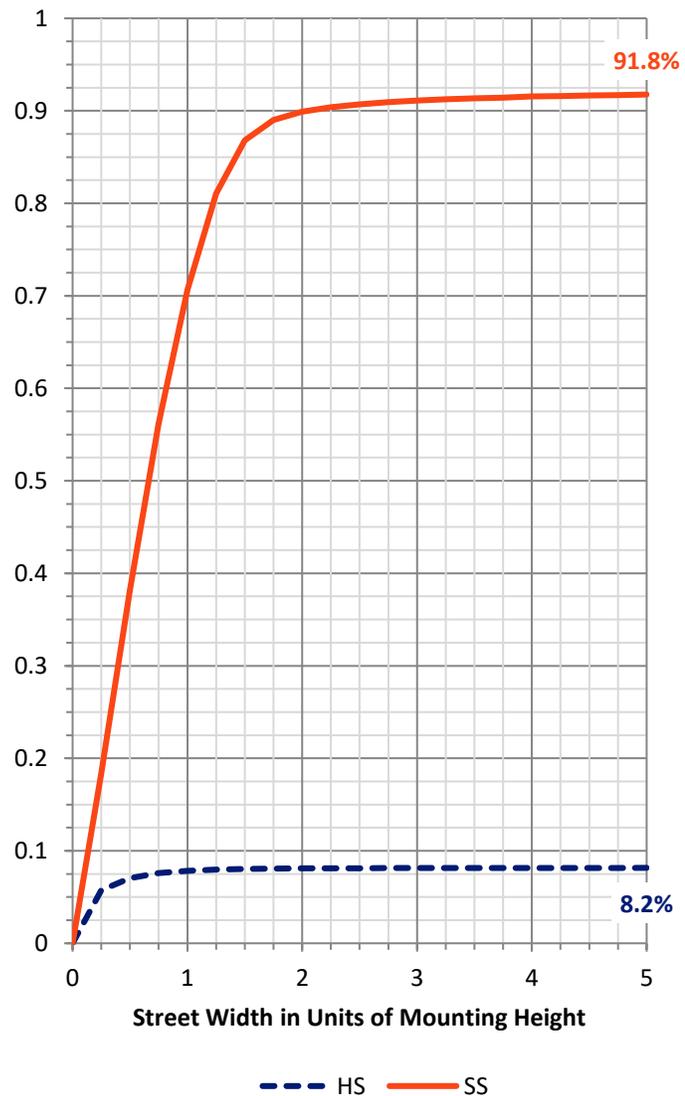
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	688.1	0.0	688.1
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	7681.9	0.0	7681.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	8370.0	0.0	8370.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	1.9
10°-20°	381.4	4.6
20°-30°	594.7	7.1
30°-40°	938.8	11.2
40°-50°	1460.2	17.4
50°-60°	2110.7	25.2
60°-70°	1907.8	22.8
70°-80°	766.8	9.2
80°-90°	53.9	0.6
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°	8370.0	100.0
0°-180°	8370.0	100.0



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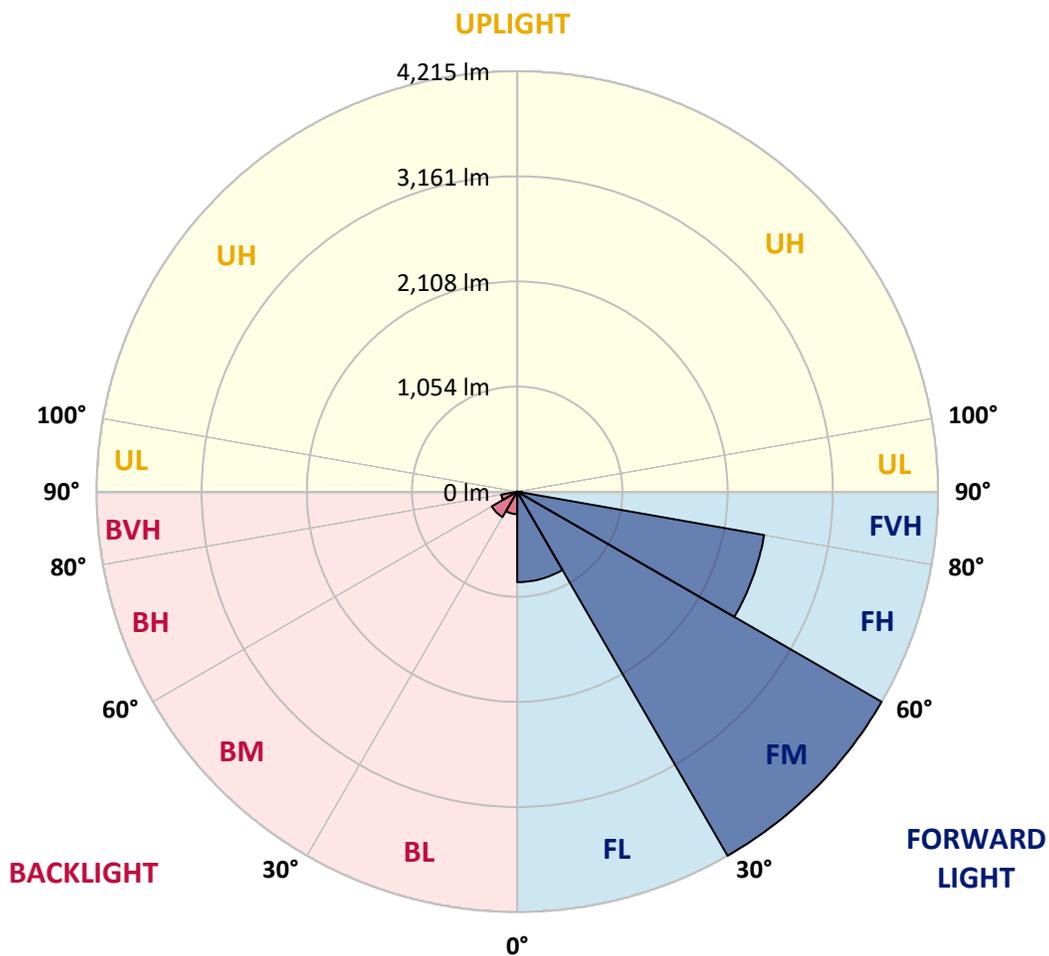
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.8	10.8			
FM (30°-60°)	4215.2	50.4			
FH (60°-80°)	2512.1	30.0			G2/5000
FVH (80°-90°)	47.8	0.6			G1/100
BL (0°-30°)	225.1	2.7	B1/500		
BM (30°-60°)	294.4	3.5	B1/1000		
BH (60°-80°)	162.6	1.9	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6
2.5°	2057.8	2050.1	2054.0	2037.3	2034.8	2018.1	1981.0	1943.9	1909.4	1900.4	1858.2
5°	2207.5	2203.7	2199.9	2197.3	2185.8	2173.0	2120.5	2070.6	2006.6	1995.1	1906.8
7.5°	2247.2	2243.4	2251.1	2263.9	2271.5	2265.1	2226.7	2178.1	2097.5	2084.7	1956.7
10°	2158.9	2155.1	2189.6	2239.5	2285.6	2318.9	2304.8	2261.3	2176.8	2164.0	1991.3
12.5°	1964.4	1959.3	2015.6	2118.0	2226.7	2321.4	2349.6	2320.2	2240.8	2226.7	2019.4
15°	1786.5	1778.8	1835.1	1938.8	2075.7	2258.7	2366.2	2375.2	2293.3	2284.3	2050.1
17.5°	1691.8	1693.1	1727.6	1813.4	1945.2	2144.8	2348.3	2426.4	2363.7	2352.2	2083.4
20°	1730.2	1732.8	1736.6	1769.9	1849.2	2045.0	2308.6	2481.4	2432.8	2420.0	2125.6
22.5°	1841.5	1847.9	1837.7	1819.8	1830.0	1972.1	2267.7	2541.6	2512.1	2499.3	2155.1
25°	2048.9	2041.2	2009.2	1937.5	1886.3	1950.3	2253.6	2610.7	2611.9	2596.6	2190.9
27.5°	2295.8	2275.4	2237.0	2123.1	1997.7	1986.2	2249.8	2684.9	2728.4	2706.6	2231.9
30°	2505.7	2495.5	2448.1	2343.2	2155.1	2069.3	2260.0	2756.6	2866.6	2855.1	2285.6
32.5°	2641.4	2638.8	2604.3	2533.9	2368.8	2203.7	2304.8	2853.8	3075.2	3036.8	2388.0
35°	2755.3	2743.8	2716.9	2670.8	2571.0	2386.7	2399.5	3009.9	3356.7	3345.2	2551.8
37.5°	2884.5	2870.4	2838.5	2780.9	2711.8	2603.0	2550.5	3212.1	3715.1	3710.0	2768.1
40°	3034.3	3025.3	2993.3	2916.5	2830.8	2765.5	2707.9	3420.7	4061.9	4026.1	2967.7
42.5°	3181.4	3184.0	3159.7	3080.3	2963.9	2875.6	2894.8	3633.2	4513.6	4495.7	3278.7
45°	3349.1	3340.1	3327.3	3269.7	3144.3	2962.6	3073.9	3927.5	5038.3	5083.1	3730.4
47.5°	3466.8	3464.2	3489.8	3446.3	3342.7	3102.1	3258.2	4292.2	5683.3	5725.5	4227.0
50°	3497.5	3493.7	3579.4	3615.3	3611.4	3372.1	3511.6	4754.2	6392.3	6385.9	4782.4
52.5°	3300.4	3309.4	3475.8	3666.4	3844.3	3788.0	3968.5	5390.3	7149.9	7171.6	5304.5
55°	2734.8	2791.1	2975.4	3416.9	3885.3	4211.6	4557.1	6265.6	8149.4	8091.8	5715.3
57.5°	1714.8	1685.4	1996.4	2636.3	3381.1	4243.6	5033.2	7144.8	9216.7	9143.7	6319.3
60°	874.1	835.7	1017.4	1470.4	2347.0	3566.6	5043.4	7911.3	10200.8	10118.9	6929.8
62.5°	534.9	528.5	565.6	717.9	1215.7	2405.9	4370.3	8374.6	11163.1	11097.9	7343.1
65°	450.5	449.2	463.3	487.6	538.8	1249.0	3260.8	8148.1	11924.6	11829.9	7367.4
67.5°	399.3	399.3	428.7	440.2	358.3	537.5	2000.2	7206.2	11746.7	11728.8	6854.3
70°	344.2	339.1	380.1	414.6	298.2	276.4	1030.2	5789.5	10319.8	10378.7	5838.2
72.5°	259.8	264.9	307.1	353.2	244.4	194.5	470.9	4051.6	8126.3	8154.5	4587.9
75°	195.8	200.9	238.0	289.2	197.1	147.2	259.8	2632.4	5322.4	5386.4	2679.8
77.5°	149.7	151.0	188.1	239.3	152.3	112.6	175.3	1462.7	2697.7	2640.1	1041.7
80°	103.7	107.5	147.2	185.6	121.6	84.5	117.7	633.5	973.9	898.4	323.8
82.5°	38.4	49.9	103.7	134.4	85.7	60.1	87.0	254.7	285.4	267.5	119.0
85°	6.4	6.4	56.3	98.5	46.1	35.8	55.0	88.3	93.4	98.5	61.4
87.5°	0.0	0.0	6.4	21.8	7.7	5.1	15.4	21.8	44.8	49.9	33.3
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°	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6	1823.6
2.5°	1830.0	1803.1	1749.4	1703.3	1631.7	1569.0	1529.3	1498.6	1475.5	1448.7	1421.8
5°	1850.5	1787.8	1656.0	1507.5	1355.2	1218.3	1105.7	1003.3	936.8	929.1	897.1
7.5°	1868.4	1768.6	1545.9	1282.3	1049.4	851.0	711.5	625.8	551.6	528.5	538.8
10°	1868.4	1735.3	1400.0	1037.9	757.6	555.4	453.0	396.7	376.2	367.3	359.6
12.5°	1863.3	1681.6	1217.0	808.8	527.3	404.4	358.3	337.9	326.3	321.2	318.7
15°	1855.6	1616.3	1036.6	604.0	403.1	346.8	323.8	308.4	298.2	293.1	289.2
17.5°	1850.5	1548.5	872.8	458.1	348.1	316.1	296.9	281.5	272.6	264.9	263.6
20°	1835.1	1469.1	714.1	376.2	316.1	289.2	268.7	254.7	245.7	236.8	236.8
22.5°	1810.8	1356.5	564.4	327.6	289.2	262.3	240.6	226.5	217.6	212.4	209.9
25°	1780.1	1245.2	447.9	299.5	263.6	234.2	215.0	200.9	193.2	190.7	188.1
27.5°	1745.6	1133.8	368.6	276.4	239.3	211.2	189.4	179.2	174.0	171.5	168.9
30°	1717.4	1032.7	319.9	257.2	216.3	188.1	168.9	160.0	156.1	154.8	152.3
32.5°	1720.0	947.0	286.7	235.5	198.4	170.2	151.0	142.1	142.1	140.8	140.8
35°	1767.3	893.3	263.6	216.3	179.2	152.3	135.7	128.0	130.5	130.5	129.3
37.5°	1818.5	839.5	241.9	195.8	162.5	135.7	119.0	115.2	116.5	117.7	117.7
40°	1885.1	799.8	224.0	176.6	145.9	121.6	107.5	103.7	103.7	103.7	102.4
42.5°	2036.1	796.0	208.6	160.0	130.5	107.5	97.3	92.1	89.6	88.3	85.7
45°	2248.5	824.2	198.4	144.6	115.2	97.3	88.3	81.9	74.2	70.4	69.1
47.5°	2522.4	897.1	189.4	130.5	101.1	88.3	79.3	70.4	60.1	55.0	53.7
50°	2864.1	1011.0	180.4	119.0	90.9	79.3	69.1	57.6	47.4	42.2	42.2
52.5°	3184.0	1145.4	171.5	108.8	80.6	72.9	58.9	46.1	37.1	33.3	32.0
55°	3471.9	1296.4	161.2	97.3	72.9	64.0	48.6	35.8	26.9	23.0	21.8
57.5°	3818.7	1487.1	148.4	85.7	65.3	55.0	38.4	25.6	17.9	12.8	11.5
60°	4197.5	1583.0	131.8	75.5	56.3	46.1	29.4	17.9	10.2	5.1	5.1
62.5°	4320.4	1535.7	111.3	65.3	48.6	37.1	21.8	11.5	3.8	0.0	0.0
65°	4096.4	1315.6	94.7	57.6	42.2	28.2	15.4	6.4	0.0	0.0	0.0
67.5°	3580.7	1023.8	78.1	49.9	35.8	23.0	10.2	1.3	0.0	0.0	0.0
70°	2956.2	758.9	65.3	41.0	30.7	17.9	6.4	0.0	0.0	0.0	0.0
72.5°	2281.8	538.8	56.3	34.6	25.6	14.1	3.8	0.0	0.0	0.0	0.0
75°	1288.7	289.2	51.2	34.6	23.0	11.5	2.6	0.0	0.0	0.0	0.0
77.5°	532.4	133.1	44.8	34.6	23.0	12.8	3.8	0.0	0.0	0.0	0.0
80°	166.4	67.8	38.4	35.8	24.3	14.1	3.8	0.0	0.0	0.0	0.0
82.5°	78.1	52.5	39.7	33.3	21.8	12.8	3.8	0.0	0.0	0.0	0.0
85°	41.0	26.9	28.2	28.2	19.2	11.5	3.8	0.0	0.0	0.0	0.0
87.5°	11.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)