

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: P1209229

Luminaire Tested: UPW-SA2-110-727-U-SL2-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-SL2-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 8665 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

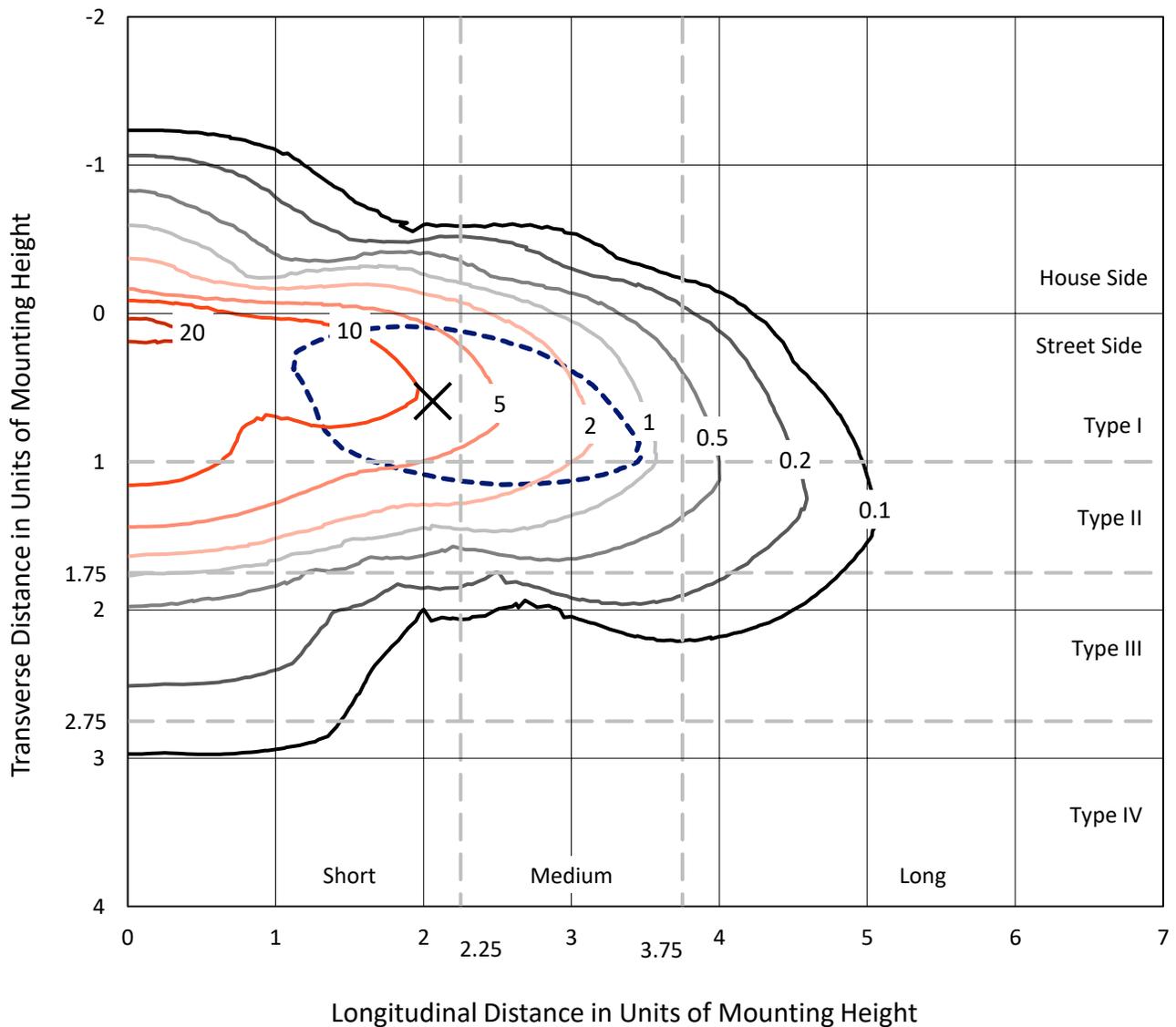
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

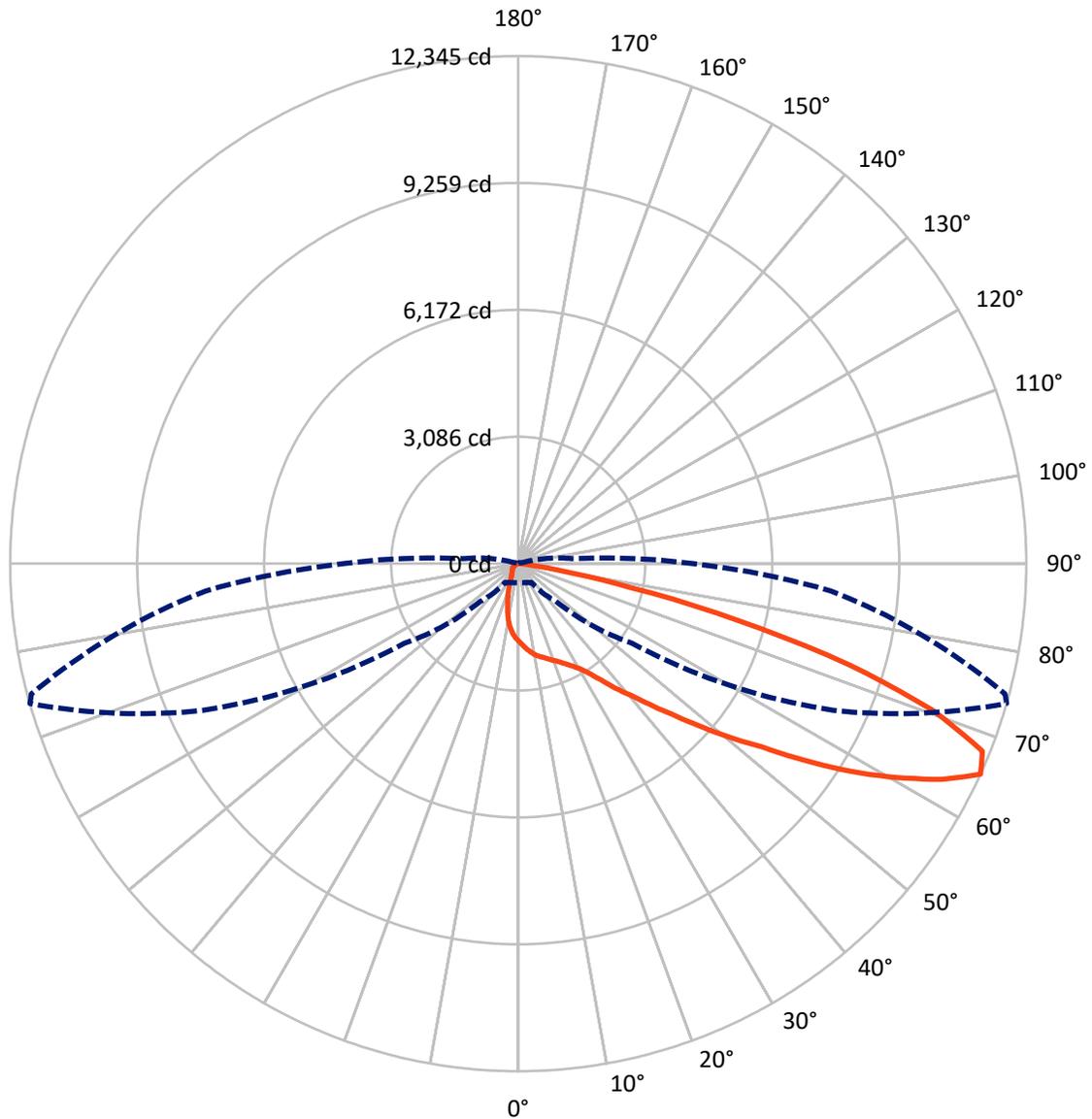
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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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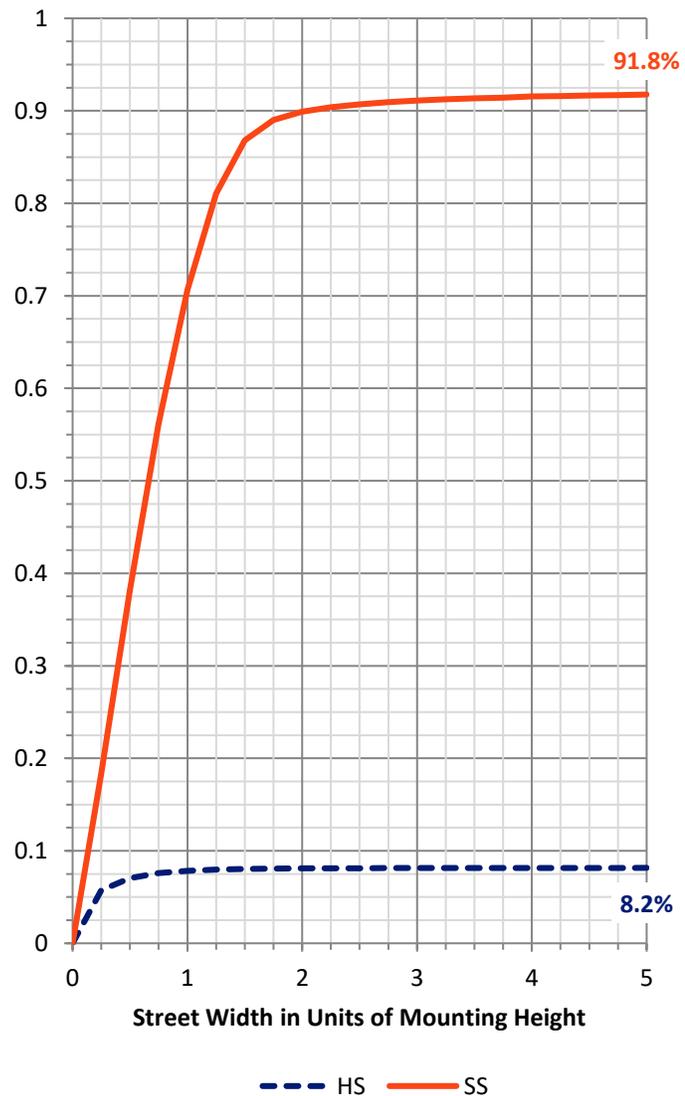
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	712.3	0.0	712.3
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	7952.7	0.0	7952.7
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	8665.0	0.0	8665.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	1.9
10°-20°	394.9	4.6
20°-30°	615.7	7.1
30°-40°	971.8	11.2
40°-50°	1511.6	17.4
50°-60°	2185.1	25.2
60°-70°	1975.1	22.8
70°-80°	793.9	9.2
80°-90°	55.8	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°	8665.0	100.0
0°-180°	8665.0	100.0



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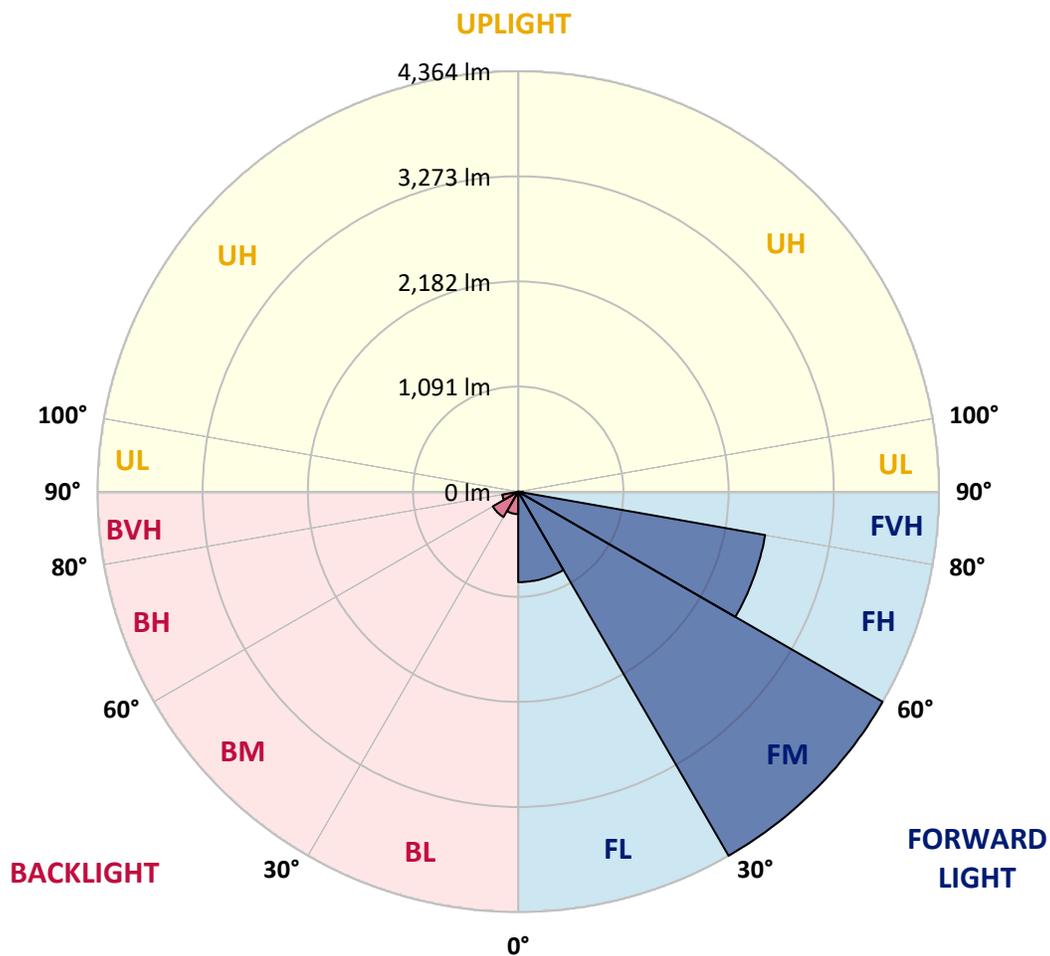
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.7	10.8			
FM (30°-60°)	4363.8	50.4			
FH (60°-80°)	2600.7	30.0			G2/5000
FVH (80°-90°)	49.5	0.6			G1/100
BL (0°-30°)	233.0	2.7	B1/500		
BM (30°-60°)	304.8	3.5	B1/1000		
BH (60°-80°)	168.3	1.9	B1/500		G1/500
BVH (80°-90°)	6.2	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°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	2130.3	2122.4	2126.4	2109.1	2106.5	2089.3	2050.9	2012.4	1976.7	1967.4	1923.7
5°	2285.4	2281.4	2277.4	2274.8	2262.8	2249.6	2195.3	2143.6	2077.4	2065.4	1974.0
7.5°	2326.4	2322.4	2330.4	2343.6	2351.6	2345.0	2305.2	2254.9	2171.4	2158.2	2025.7
10°	2235.0	2231.0	2266.8	2318.5	2366.2	2400.6	2386.0	2341.0	2253.6	2240.3	2061.5
12.5°	2033.6	2028.3	2086.6	2192.6	2305.2	2403.3	2432.4	2401.9	2319.8	2305.2	2090.6
15°	1849.5	1841.5	1899.8	2007.1	2148.9	2338.3	2449.6	2458.9	2374.1	2364.8	2122.4
17.5°	1751.4	1752.8	1788.5	1877.3	2013.8	2220.4	2431.1	2511.9	2447.0	2435.1	2156.8
20°	1791.2	1793.8	1797.8	1832.3	1914.4	2117.1	2390.0	2568.9	2518.5	2505.3	2200.6
22.5°	1906.4	1913.1	1902.5	1883.9	1894.5	2041.6	2347.6	2631.1	2600.7	2587.4	2231.0
25°	2121.1	2113.1	2080.0	2005.8	1952.8	2019.1	2333.0	2702.7	2704.0	2688.1	2268.1
27.5°	2376.8	2355.6	2315.8	2197.9	2068.1	2056.2	2329.1	2779.5	2824.6	2802.0	2310.5
30°	2594.0	2583.4	2534.4	2425.8	2231.0	2142.3	2339.7	2853.7	2967.6	2955.7	2366.2
32.5°	2734.5	2731.8	2696.1	2623.2	2452.3	2281.4	2386.0	2954.4	3183.6	3143.8	2472.2
35°	2852.4	2840.5	2812.6	2764.9	2661.6	2470.8	2484.1	3116.0	3475.1	3463.1	2641.7
37.5°	2986.2	2971.6	2938.5	2878.9	2807.3	2694.7	2640.4	3325.4	3846.0	3840.7	2865.6
40°	3141.2	3131.9	3098.8	3019.3	2930.5	2863.0	2803.4	3541.3	4205.0	4167.9	3072.3
42.5°	3293.6	3296.2	3271.0	3188.9	3068.3	2976.9	2996.8	3761.2	4672.7	4654.2	3394.2
45°	3467.1	3457.8	3444.6	3385.0	3255.1	3067.0	3182.3	4065.9	5215.9	5262.3	3861.9
47.5°	3589.0	3586.3	3612.8	3567.8	3460.5	3211.4	3373.0	4443.5	5883.6	5927.3	4375.9
50°	3620.8	3616.8	3705.6	3742.7	3738.7	3491.0	3635.4	4921.8	6617.6	6611.0	4950.9
52.5°	3416.8	3426.0	3598.3	3795.7	3979.8	3921.5	4108.3	5580.2	7401.9	7424.4	5491.5
55°	2831.2	2889.5	3080.3	3537.3	4022.2	4360.1	4717.8	6486.4	8436.6	8377.0	5916.7
57.5°	1775.3	1744.8	2066.8	2729.2	3500.2	4393.2	5210.6	7396.6	9541.5	9466.0	6542.1
60°	904.9	865.1	1053.2	1522.2	2429.8	3692.3	5221.2	8190.2	10560.3	10475.5	7174.0
62.5°	553.8	547.2	585.6	743.2	1258.6	2490.7	4524.3	8669.8	11556.6	11489.0	7601.9
65°	466.3	465.0	479.6	504.8	557.8	1293.0	3375.7	8435.3	12344.9	12246.8	7627.1
67.5°	413.4	413.4	443.8	455.7	371.0	556.4	2070.7	7460.2	12160.7	12142.2	7095.8
70°	356.4	351.1	393.5	429.2	308.7	286.2	1066.5	5993.6	10683.5	10744.5	6043.9
72.5°	268.9	274.2	318.0	365.7	253.0	201.4	487.5	4194.4	8412.7	8441.9	4749.6
75°	202.7	208.0	246.4	299.4	204.0	152.4	268.9	2725.2	5510.0	5576.3	2774.2
77.5°	155.0	156.3	194.8	247.7	157.7	116.6	181.5	1514.3	2792.8	2733.1	1078.4
80°	107.3	111.3	152.4	192.1	125.9	87.4	121.9	655.8	1008.2	930.0	335.2
82.5°	39.7	51.7	107.3	139.1	88.8	62.3	90.1	263.6	295.4	276.9	123.2
85°	6.6	6.6	58.3	102.0	47.7	37.1	57.0	91.4	96.7	102.0	63.6
87.5°	0.0	0.0	6.6	22.5	7.9	5.3	15.9	22.5	46.4	51.7	34.4
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°	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9	1887.9
2.5°	1894.5	1866.7	1811.1	1763.4	1689.2	1624.3	1583.2	1551.4	1527.5	1499.7	1471.9
5°	1915.7	1850.8	1714.3	1560.7	1403.0	1261.2	1144.7	1038.7	969.8	961.8	928.7
7.5°	1934.3	1830.9	1600.4	1327.5	1086.4	881.0	736.6	647.8	571.0	547.2	557.8
10°	1934.3	1796.5	1449.4	1074.4	784.3	575.0	469.0	410.7	389.5	380.2	372.3
12.5°	1929.0	1740.8	1259.9	837.3	545.8	418.6	371.0	349.8	337.8	332.5	329.9
15°	1921.0	1673.3	1073.1	625.3	417.3	359.0	335.2	319.3	308.7	303.4	299.4
17.5°	1915.7	1603.1	903.5	474.3	360.4	327.2	307.4	291.5	282.2	274.2	272.9
20°	1899.8	1520.9	739.3	389.5	327.2	299.4	278.2	263.6	254.4	245.1	245.1
22.5°	1874.6	1404.3	584.3	339.2	299.4	271.6	249.1	234.5	225.2	219.9	217.3
25°	1842.9	1289.1	463.7	310.0	272.9	242.4	222.6	208.0	200.1	197.4	194.8
27.5°	1807.1	1173.8	381.6	286.2	247.7	218.6	196.1	185.5	180.2	177.5	174.9
30°	1777.9	1069.1	331.2	266.3	223.9	194.8	174.9	165.6	161.6	160.3	157.7
32.5°	1780.6	980.4	296.8	243.8	205.4	176.2	156.3	147.1	147.1	145.7	145.7
35°	1829.6	924.7	272.9	223.9	185.5	157.7	140.4	132.5	135.1	135.1	133.8
37.5°	1882.6	869.1	250.4	202.7	168.3	140.4	123.2	119.2	120.6	121.9	121.9
40°	1951.5	828.0	231.8	182.8	151.0	125.9	111.3	107.3	107.3	107.3	106.0
42.5°	2107.8	824.1	215.9	165.6	135.1	111.3	100.7	95.4	92.7	91.4	88.8
45°	2327.7	853.2	205.4	149.7	119.2	100.7	91.4	84.8	76.8	72.9	71.5
47.5°	2611.3	928.7	196.1	135.1	104.7	91.4	82.1	72.9	62.3	57.0	55.6
50°	2965.0	1046.6	186.8	123.2	94.1	82.1	71.5	59.6	49.0	43.7	43.7
52.5°	3296.2	1185.7	177.5	112.6	83.5	75.5	60.9	47.7	38.4	34.4	33.1
55°	3594.3	1342.1	166.9	100.7	75.5	66.2	50.3	37.1	27.8	23.8	22.5
57.5°	3953.3	1539.5	153.7	88.8	67.6	57.0	39.7	26.5	18.5	13.2	11.9
60°	4345.5	1638.8	136.5	78.2	58.3	47.7	30.5	18.5	10.6	5.3	5.3
62.5°	4472.7	1589.8	115.3	67.6	50.3	38.4	22.5	11.9	4.0	0.0	0.0
65°	4240.8	1361.9	98.0	59.6	43.7	29.1	15.9	6.6	0.0	0.0	0.0
67.5°	3706.9	1059.9	80.8	51.7	37.1	23.8	10.6	1.3	0.0	0.0	0.0
70°	3060.4	785.6	67.6	42.4	31.8	18.5	6.6	0.0	0.0	0.0	0.0
72.5°	2362.2	557.8	58.3	35.8	26.5	14.6	4.0	0.0	0.0	0.0	0.0
75°	1334.1	299.4	53.0	35.8	23.8	11.9	2.6	0.0	0.0	0.0	0.0
77.5°	551.1	137.8	46.4	35.8	23.8	13.2	4.0	0.0	0.0	0.0	0.0
80°	172.2	70.2	39.7	37.1	25.2	14.6	4.0	0.0	0.0	0.0	0.0
82.5°	80.8	54.3	41.1	34.4	22.5	13.2	4.0	0.0	0.0	0.0	0.0
85°	42.4	27.8	29.1	29.1	19.9	11.9	4.0	0.0	0.0	0.0	0.0
87.5°	11.9	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)