

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: P1209391

Luminaire Tested: UPW-SA2-110-827-U-SL2-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209391
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-SA2-110-827-U-SL2-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 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: 7616 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

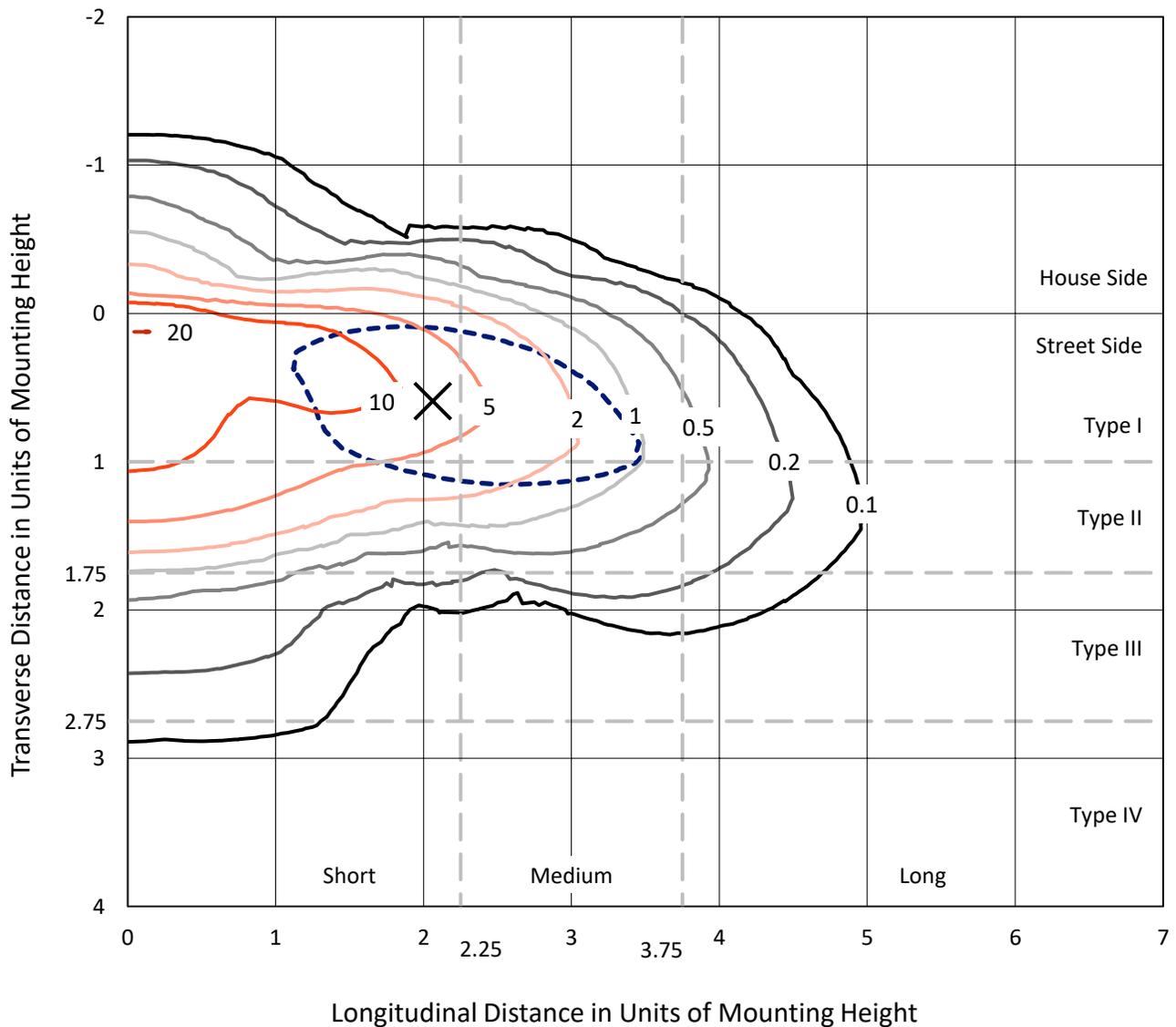
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

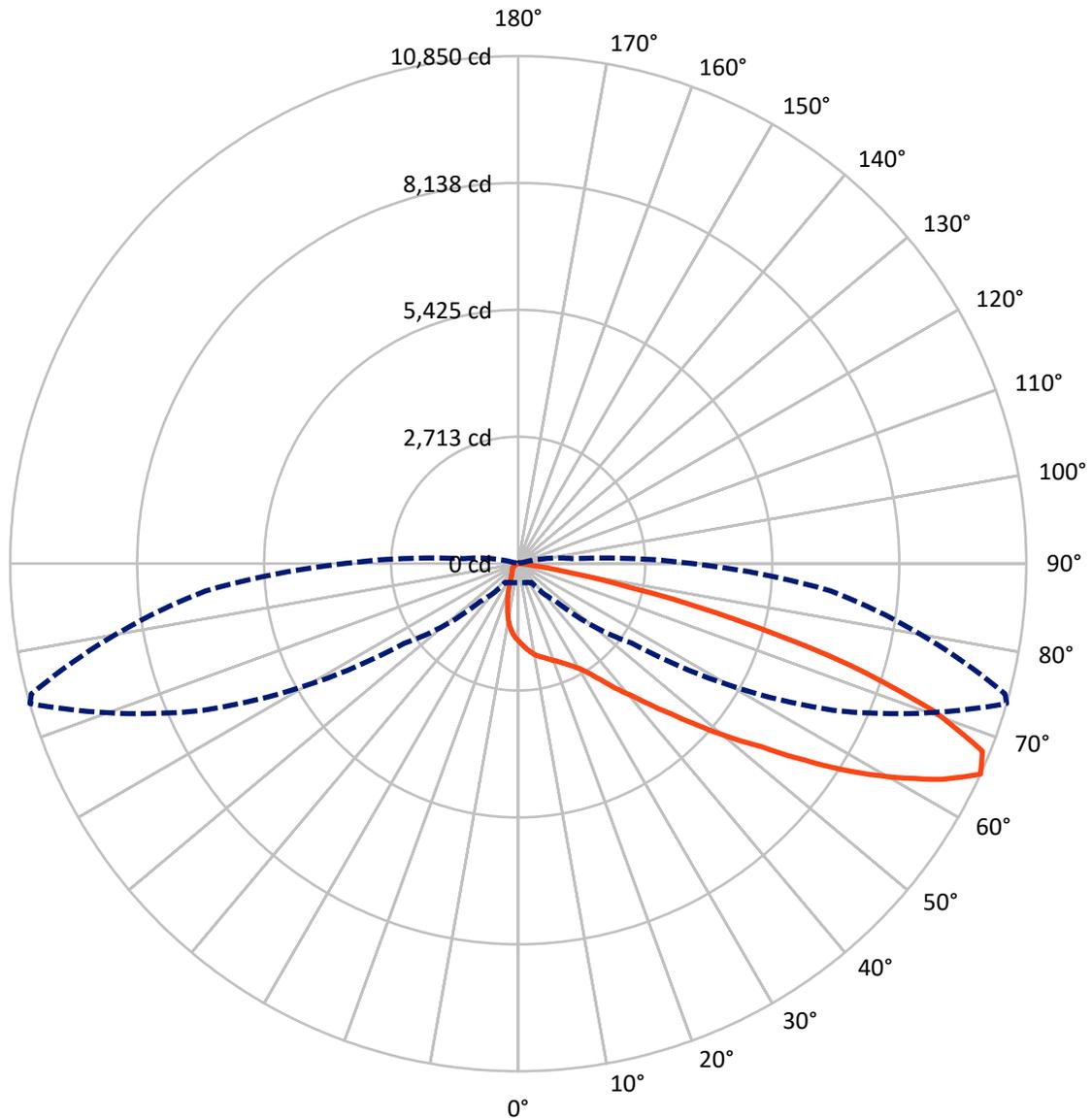
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 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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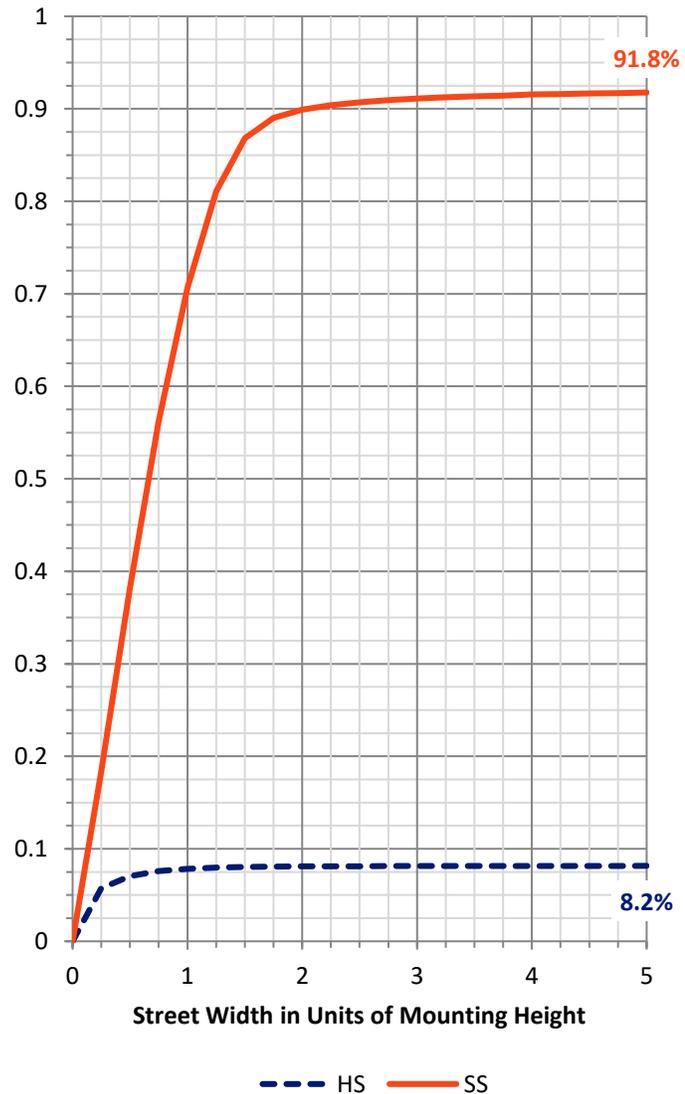
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.1	0.0	626.1
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	6989.9	0.0	6989.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	7616.0	0.0	7616.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.9
10°-20°	347.1	4.6
20°-30°	541.2	7.1
30°-40°	854.2	11.2
40°-50°	1328.6	17.4
50°-60°	1920.6	25.2
60°-70°	1736.0	22.8
70°-80°	697.8	9.2
80°-90°	49.0	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°	7616.0	100.0
0°-180°	7616.0	100.0



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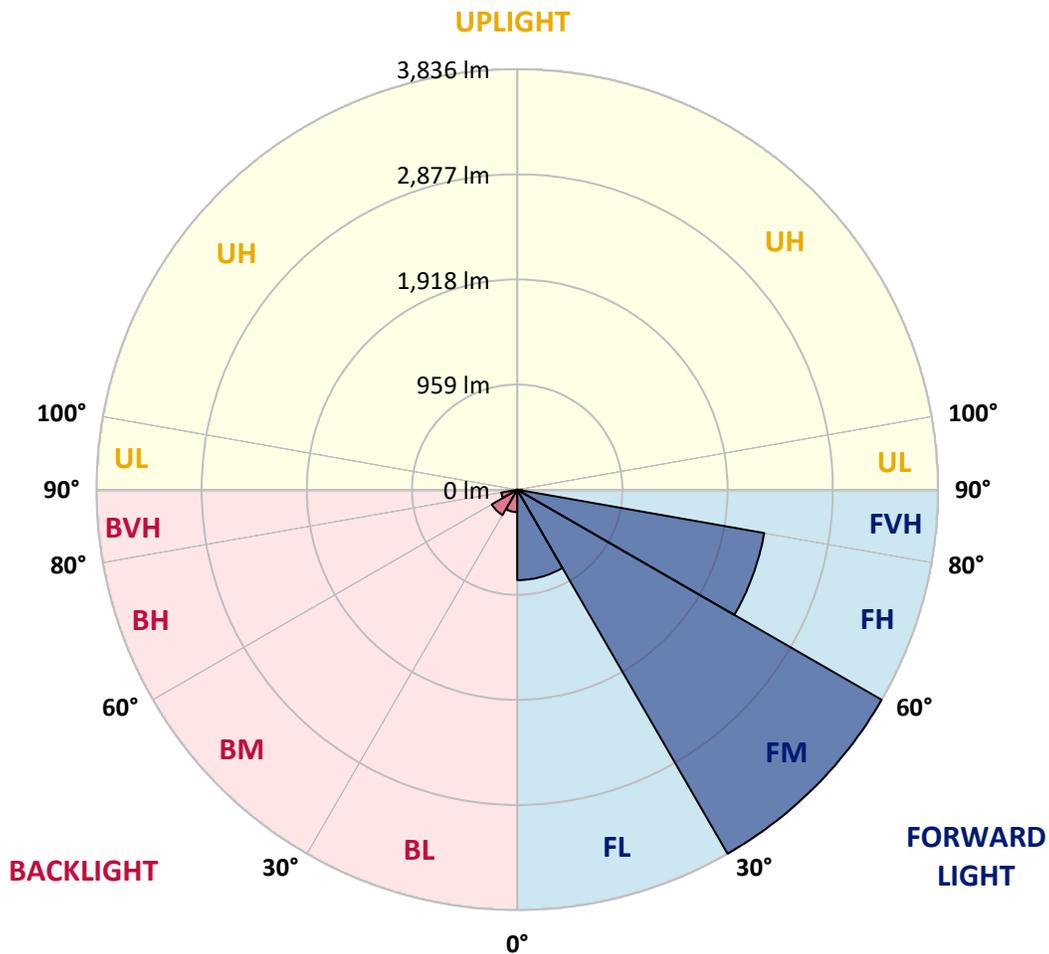
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.1	10.8			
FM	(30°-60°)	3835.5	50.4			
FH	(60°-80°)	2285.8	30.0			G2/5000
FVH	(80°-90°)	43.5	0.6			G1/100
BL	(0°-30°)	204.8	2.7	B1/500		
BM	(30°-60°)	267.9	3.5	B1/1000		
BH	(60°-80°)	147.9	1.9	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1872.4	1865.5	1868.9	1853.8	1851.5	1836.3	1802.6	1768.8	1737.4	1729.2	1690.8
5°	2008.7	2005.2	2001.7	1999.4	1988.9	1977.2	1929.5	1884.1	1825.9	1815.4	1735.0
7.5°	2044.8	2041.3	2048.3	2059.9	2066.9	2061.1	2026.1	1981.9	1908.5	1896.9	1780.4
10°	1964.4	1960.9	1992.4	2037.8	2079.7	2110.0	2097.2	2057.6	1980.7	1969.1	1811.9
12.5°	1787.4	1782.8	1834.0	1927.2	2026.1	2112.3	2137.9	2111.2	2039.0	2026.1	1837.5
15°	1625.6	1618.6	1669.8	1764.1	1888.7	2055.3	2153.1	2161.2	2086.7	2078.5	1865.5
17.5°	1539.4	1540.6	1572.0	1650.0	1770.0	1951.6	2136.8	2207.8	2150.7	2140.3	1895.7
20°	1574.3	1576.7	1580.2	1610.4	1682.6	1860.8	2100.7	2257.9	2213.6	2202.0	1934.2
22.5°	1675.6	1681.5	1672.2	1655.9	1665.2	1794.4	2063.4	2312.6	2285.8	2274.2	1960.9
25°	1864.3	1857.3	1828.2	1763.0	1716.4	1774.6	2050.6	2375.5	2376.6	2362.7	1993.5
27.5°	2089.0	2070.4	2035.5	1931.8	1817.7	1807.2	2047.1	2443.0	2482.6	2462.8	2030.8
30°	2280.0	2270.7	2227.6	2132.1	1960.9	1882.9	2056.4	2508.2	2608.4	2597.9	2079.7
32.5°	2403.4	2401.1	2369.7	2305.6	2155.4	2005.2	2097.2	2596.7	2798.2	2763.2	2172.9
35°	2507.1	2496.6	2472.1	2430.2	2339.4	2171.7	2183.4	2738.8	3054.4	3043.9	2321.9
37.5°	2624.7	2611.9	2582.8	2530.4	2467.5	2368.5	2320.8	2922.8	3380.4	3375.8	2518.7
40°	2760.9	2752.8	2723.7	2653.8	2575.8	2516.4	2464.0	3112.6	3696.0	3663.4	2700.4
42.5°	2894.8	2897.2	2875.0	2802.8	2696.9	2616.5	2634.0	3305.9	4107.0	4090.7	2983.3
45°	3047.4	3039.2	3027.6	2975.2	2861.1	2695.7	2797.0	3573.7	4584.5	4625.2	3394.4
47.5°	3154.5	3152.2	3175.5	3135.9	3041.6	2822.6	2964.7	3905.6	5171.3	5209.8	3846.2
50°	3182.5	3179.0	3257.0	3289.6	3286.1	3068.3	3195.3	4325.9	5816.4	5810.6	4351.6
52.5°	3003.1	3011.3	3162.7	3336.2	3498.0	3446.8	3611.0	4904.7	6505.8	6525.6	4826.7
55°	2488.4	2539.7	2707.4	3109.1	3535.3	3832.2	4146.6	5701.2	7415.2	7362.8	5200.4
57.5°	1560.4	1533.6	1816.5	2398.8	3076.5	3861.3	4579.8	6501.1	8386.4	8320.0	5750.1
60°	795.3	760.4	925.7	1338.0	2135.6	3245.3	4589.1	7198.7	9281.9	9207.3	6305.5
62.5°	486.7	480.9	514.7	653.3	1106.2	2189.2	3976.6	7620.2	10157.5	10098.1	6681.6
65°	409.9	408.7	421.5	443.7	490.2	1136.5	2967.0	7414.1	10850.4	10764.2	6703.8
67.5°	363.3	363.3	390.1	400.6	326.0	489.1	1820.0	6557.0	10688.5	10672.2	6236.8
70°	313.2	308.6	345.8	377.3	271.3	251.5	937.4	5268.0	9390.2	9443.7	5312.2
72.5°	236.4	241.0	279.5	321.4	222.4	177.0	428.5	3686.7	7394.3	7419.9	4174.6
75°	178.2	182.8	216.6	263.2	179.3	133.9	236.4	2395.3	4843.0	4901.2	2438.4
77.5°	136.2	137.4	171.2	217.8	138.6	102.5	159.5	1331.0	2454.7	2402.3	947.9
80°	94.3	97.8	133.9	168.8	110.6	76.9	107.1	576.4	886.1	817.4	294.6
82.5°	34.9	45.4	94.3	122.3	78.0	54.7	79.2	231.7	259.7	243.4	108.3
85°	5.8	5.8	51.2	89.7	41.9	32.6	50.1	80.3	85.0	89.7	55.9
87.5°	0.0	0.0	5.8	19.8	7.0	4.7	14.0	19.8	40.8	45.4	30.3
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°	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1665.2	1640.7	1591.8	1549.9	1484.7	1427.6	1391.5	1363.6	1342.6	1318.2	1293.7
5°	1683.8	1626.7	1506.8	1371.7	1233.2	1108.6	1006.1	912.9	852.4	845.4	816.3
7.5°	1700.1	1609.3	1406.7	1166.8	954.9	774.4	647.4	569.4	501.9	480.9	490.2
10°	1700.1	1579.0	1273.9	944.4	689.4	505.4	412.2	361.0	342.3	334.2	327.2
12.5°	1695.4	1530.1	1107.4	735.9	479.8	368.0	326.0	307.4	296.9	292.3	289.9
15°	1688.5	1470.7	943.2	549.6	366.8	315.6	294.6	280.6	271.3	266.7	263.2
17.5°	1683.8	1409.0	794.2	416.9	316.7	287.6	270.2	256.2	248.0	241.0	239.9
20°	1669.8	1336.8	649.8	342.3	287.6	263.2	244.5	231.7	223.6	215.4	215.4
22.5°	1647.7	1234.3	513.5	298.1	263.2	238.7	218.9	206.1	198.0	193.3	191.0
25°	1619.8	1133.0	407.6	272.5	239.9	213.1	195.6	182.8	175.8	173.5	171.2
27.5°	1588.3	1031.7	335.4	251.5	217.8	192.1	172.3	163.0	158.4	156.0	153.7
30°	1562.7	939.7	291.1	234.1	196.8	171.2	153.7	145.6	142.1	140.9	138.6
32.5°	1565.0	861.7	260.8	214.3	180.5	154.9	137.4	129.3	129.3	128.1	128.1
35°	1608.1	812.8	239.9	196.8	163.0	138.6	123.4	116.4	118.8	118.8	117.6
37.5°	1654.7	763.9	220.1	178.2	147.9	123.4	108.3	104.8	106.0	107.1	107.1
40°	1715.2	727.8	203.8	160.7	132.7	110.6	97.8	94.3	94.3	94.3	93.2
42.5°	1852.6	724.3	189.8	145.6	118.8	97.8	88.5	83.8	81.5	80.3	78.0
45°	2045.9	749.9	180.5	131.6	104.8	88.5	80.3	74.5	67.5	64.0	62.9
47.5°	2295.1	816.3	172.3	118.8	92.0	80.3	72.2	64.0	54.7	50.1	48.9
50°	2606.0	919.9	164.2	108.3	82.7	72.2	62.9	52.4	43.1	38.4	38.4
52.5°	2897.2	1042.2	156.0	99.0	73.4	66.4	53.6	41.9	33.8	30.3	29.1
55°	3159.2	1179.6	146.7	88.5	66.4	58.2	44.2	32.6	24.5	21.0	19.8
57.5°	3474.7	1353.1	135.1	78.0	59.4	50.1	34.9	23.3	16.3	11.6	10.5
60°	3819.4	1440.4	119.9	68.7	51.2	41.9	26.8	16.3	9.3	4.7	4.7
62.5°	3931.2	1397.3	101.3	59.4	44.2	33.8	19.8	10.5	3.5	0.0	0.0
65°	3727.4	1197.1	86.2	52.4	38.4	25.6	14.0	5.8	0.0	0.0	0.0
67.5°	3258.1	931.6	71.0	45.4	32.6	21.0	9.3	1.2	0.0	0.0	0.0
70°	2689.9	690.5	59.4	37.3	27.9	16.3	5.8	0.0	0.0	0.0	0.0
72.5°	2076.2	490.2	51.2	31.4	23.3	12.8	3.5	0.0	0.0	0.0	0.0
75°	1172.6	263.2	46.6	31.4	21.0	10.5	2.3	0.0	0.0	0.0	0.0
77.5°	484.4	121.1	40.8	31.4	21.0	11.6	3.5	0.0	0.0	0.0	0.0
80°	151.4	61.7	34.9	32.6	22.1	12.8	3.5	0.0	0.0	0.0	0.0
82.5°	71.0	47.7	36.1	30.3	19.8	11.6	3.5	0.0	0.0	0.0	0.0
85°	37.3	24.5	25.6	25.6	17.5	10.5	3.5	0.0	0.0	0.0	0.0
87.5°	10.5	1.2	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)