

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: P1209408

Luminaire Tested: UPW-SA2-110-827-U-T3R-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8347 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

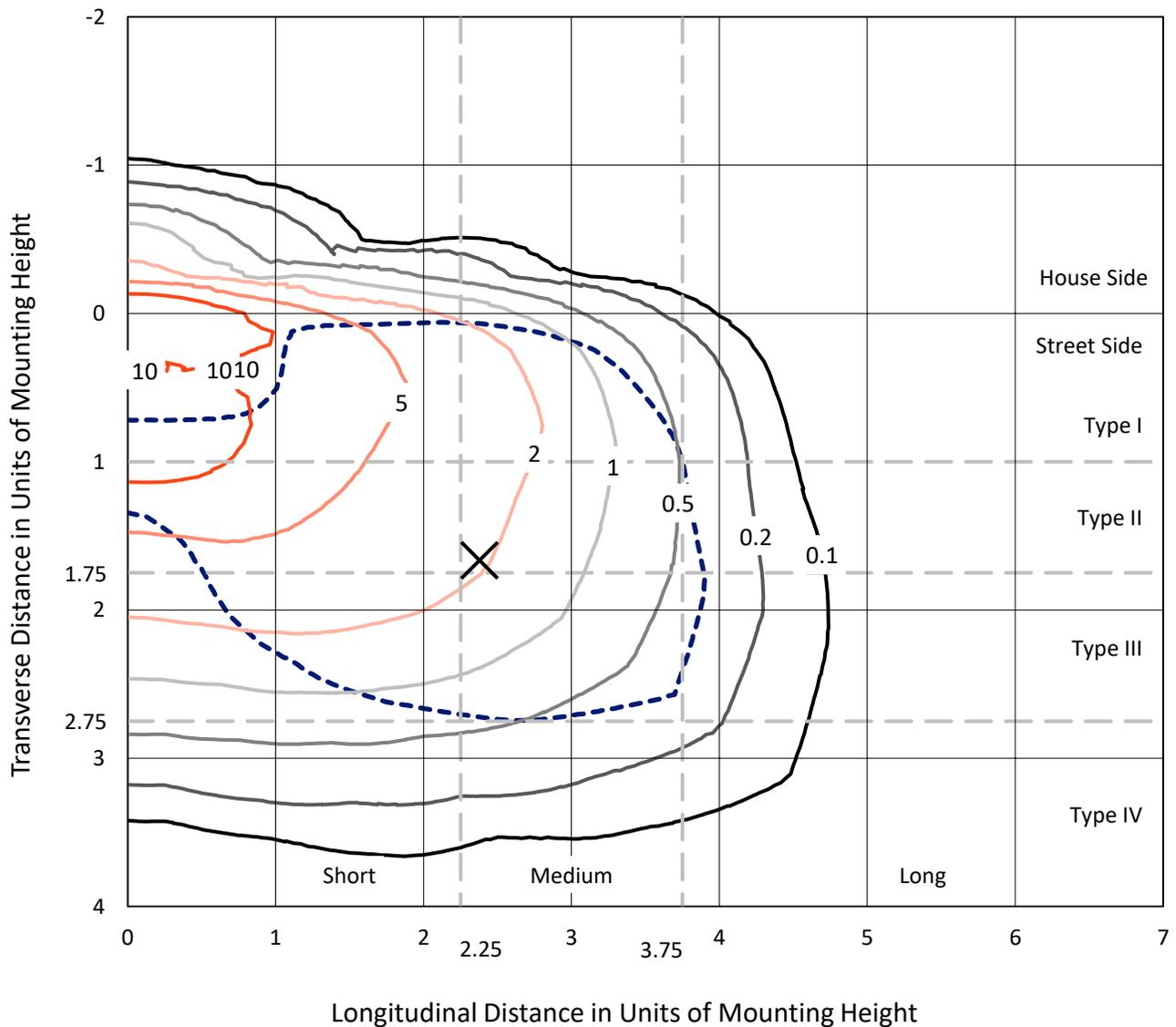
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

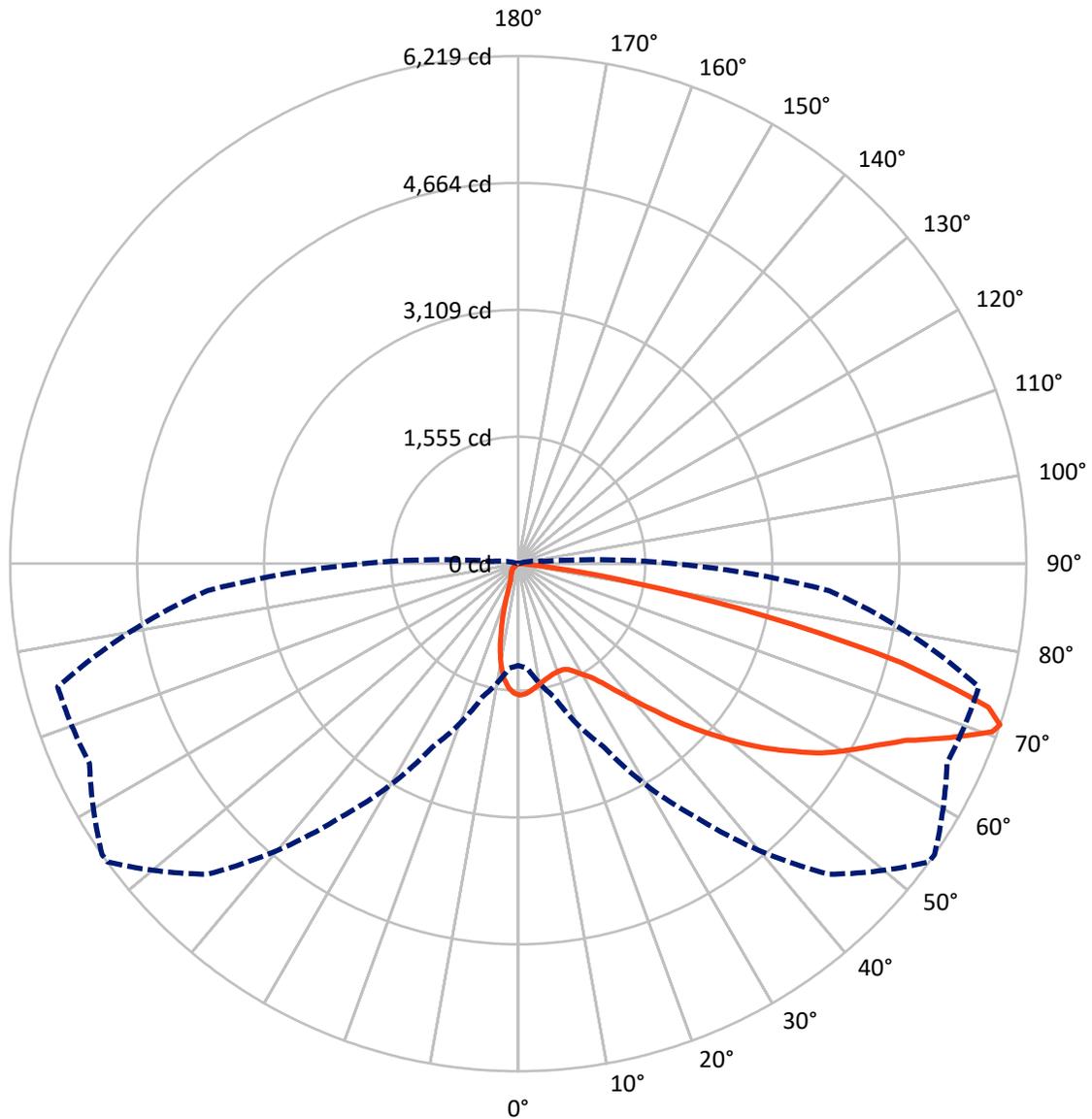
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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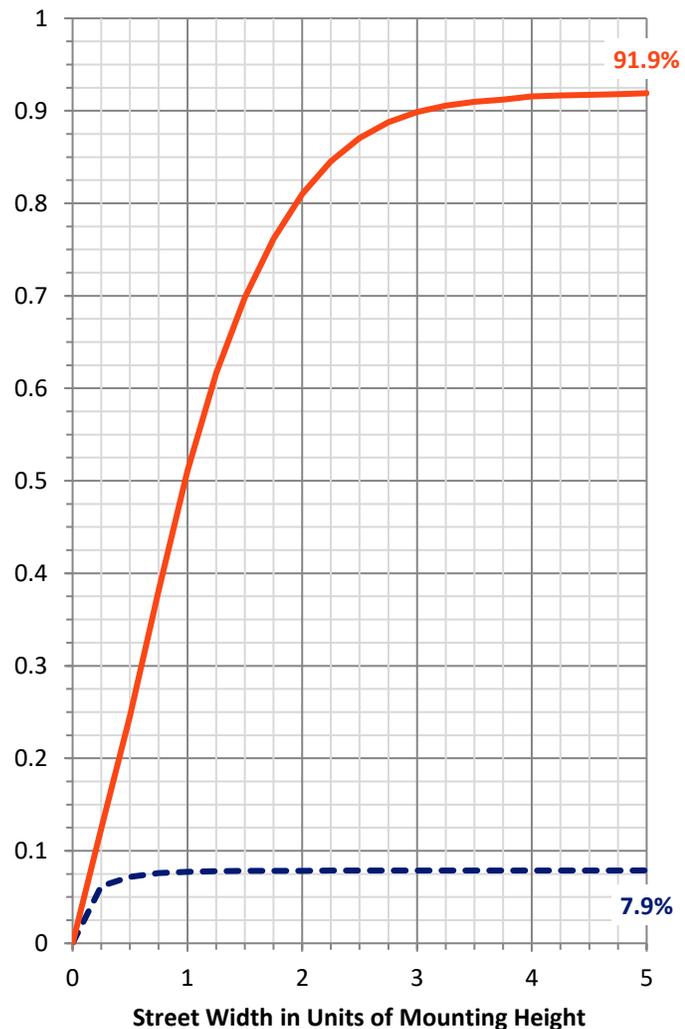
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.9	0.0	660.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7686.1	0.0	7686.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	8347.0	0.0	8347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.6
10°-20°	309.9	3.7
20°-30°	498.0	6.0
30°-40°	846.0	10.1
40°-50°	1313.2	15.7
50°-60°	1765.5	21.2
60°-70°	2159.8	25.9
70°-80°	1262.8	15.1
80°-90°	54.6	0.7
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°	8347.0	100.0
0°-180°	8347.0	100.0



--- HS — SS

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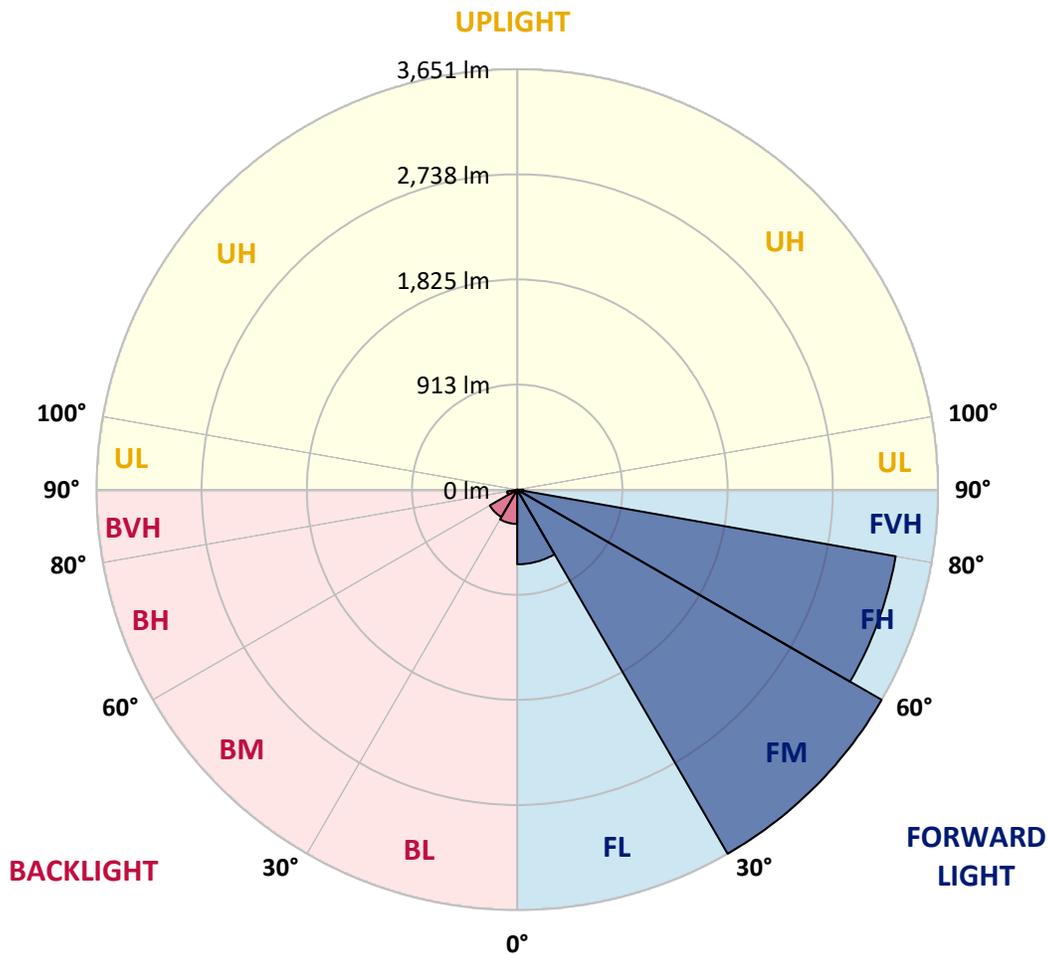
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.6	7.8			
FM	(30°-60°)	3650.7	43.7			
FH	(60°-80°)	3334.1	39.9			G2/5000
FVH	(80°-90°)	53.7	0.6			G1/100
BL	(0°-30°)	297.5	3.6	B1/500		
BM	(30°-60°)	274.0	3.3	B1/1000		
BH	(60°-80°)	88.5	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7
2.5°	1562.5	1564.4	1571.1	1574.1	1581.3	1593.3	1599.3	1599.6	1609.4	1613.1	1616.1
5°	1452.0	1463.2	1474.4	1486.4	1508.2	1537.0	1565.5	1568.1	1599.6	1622.9	1635.2
7.5°	1356.8	1366.9	1380.4	1399.5	1430.2	1475.6	1523.2	1528.8	1588.4	1641.2	1669.0
10°	1258.9	1267.2	1286.7	1314.8	1357.1	1417.9	1481.9	1491.3	1578.3	1666.0	1714.7
12.5°	1154.4	1159.2	1182.9	1223.3	1285.6	1362.8	1447.1	1459.5	1571.9	1694.5	1768.7
15°	1074.9	1077.2	1099.7	1141.6	1212.8	1313.3	1420.1	1435.1	1573.4	1728.6	1827.5
17.5°	1054.7	1055.8	1067.8	1096.7	1159.6	1269.1	1398.7	1417.1	1577.9	1761.9	1886.7
20°	1136.8	1128.9	1116.5	1112.0	1139.0	1242.4	1386.0	1406.6	1583.9	1791.5	1939.9
22.5°	1362.0	1338.8	1287.4	1218.8	1177.2	1244.3	1389.4	1410.0	1603.0	1827.9	2001.4
25°	1696.3	1664.1	1576.8	1441.8	1312.2	1298.3	1417.5	1438.5	1640.1	1871.4	2060.3
27.5°	2076.7	2044.9	1938.1	1745.4	1524.3	1405.1	1481.9	1501.4	1695.2	1910.0	2105.2
30°	2441.0	2432.1	2306.1	2087.2	1791.2	1578.3	1565.1	1581.6	1736.1	1933.2	2140.8
32.5°	2749.9	2735.6	2634.4	2421.6	2096.6	1786.3	1663.0	1667.8	1766.8	1963.2	2187.3
35°	3036.2	3018.6	2929.8	2728.5	2409.9	2040.4	1813.6	1806.5	1833.9	2023.5	2254.8
37.5°	3286.2	3302.3	3203.8	3012.2	2691.0	2304.6	2016.8	1995.4	1938.8	2121.7	2352.6
40°	3495.3	3495.3	3444.0	3284.3	2994.6	2577.8	2246.5	2218.4	2096.6	2273.1	2476.7
42.5°	3570.7	3586.8	3605.9	3515.6	3266.3	2861.9	2502.5	2473.3	2318.9	2487.9	2633.3
45°	3575.2	3600.7	3698.5	3698.1	3511.8	3144.2	2791.1	2777.2	2603.7	2763.7	2827.5
47.5°	3511.8	3543.7	3704.9	3796.3	3706.4	3406.9	3106.7	3089.4	2938.4	3101.8	3030.6
50°	3414.0	3449.2	3636.6	3834.9	3838.7	3635.5	3439.1	3413.3	3306.8	3488.2	3240.5
52.5°	3239.0	3307.2	3575.6	3843.9	3925.6	3833.0	3755.5	3744.2	3719.1	3860.4	3407.6
55°	2864.6	2940.3	3422.3	3846.9	4006.2	4008.1	4051.9	4054.9	4105.5	4208.2	3532.1
57.5°	2687.7	2730.4	3154.7	3861.1	4125.8	4206.7	4354.0	4377.2	4455.6	4538.4	3674.1
60°	2576.3	2626.9	3022.7	3841.7	4313.5	4467.2	4634.0	4641.8	4725.8	4879.1	3866.4
62.5°	2487.5	2537.4	2939.5	3766.7	4524.5	4780.5	4907.6	4908.3	4971.3	5285.0	4084.9
65°	2268.3	2310.2	2771.2	3682.4	4664.0	5090.5	5225.4	5220.5	5271.9	5713.0	4338.6
67.5°	1951.2	1983.4	2427.6	3362.7	4611.5	5372.3	5705.1	5689.0	5626.8	6082.9	4438.3
70°	1508.6	1520.2	1913.3	2802.3	4119.8	5480.6	6168.8	6160.5	5844.6	6016.6	4072.9
71°	1246.9	1285.2	1686.2	2473.3	3790.3	5380.6	6213.7	6218.6	5789.8	5835.9	3821.4
72.5°	724.1	756.7	1222.2	1899.5	3218.0	4963.0	5980.6	6015.9	5534.2	5308.2	3264.1
75°	155.2	166.0	453.1	919.4	1770.2	3478.5	4720.6	4846.1	4510.7	3611.2	1967.3
77.5°	107.9	116.6	194.1	417.1	585.1	1718.8	2932.4	3074.1	2694.8	1357.1	629.7
80°	85.5	95.2	151.4	206.1	158.2	554.3	1373.6	1460.2	898.8	302.8	106.1
82.5°	47.6	56.6	118.1	111.3	60.7	105.3	384.5	434.8	179.9	61.1	25.1
85°	13.9	16.9	76.1	81.0	25.9	20.2	65.6	81.3	34.1	16.1	11.2
87.5°	0.0	0.0	36.7	31.1	7.5	3.0	6.0	6.7	6.7	6.7	7.5
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°	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7	1609.7
2.5°	1616.1	1618.7	1609.4	1597.0	1583.9	1567.8	1550.9	1537.8	1537.4	1531.0	1524.7
5°	1636.0	1634.5	1608.6	1569.3	1522.8	1474.4	1428.3	1376.3	1359.0	1337.6	1330.5
7.5°	1672.7	1662.2	1607.5	1521.3	1419.4	1318.2	1213.6	1108.3	1063.3	1022.8	1015.7
10°	1718.8	1699.0	1600.4	1449.3	1262.3	1075.7	917.9	774.7	711.7	663.4	661.1
12.5°	1766.8	1736.4	1580.5	1340.6	1056.5	794.2	612.4	471.5	419.0	385.3	388.3
15°	1817.0	1771.7	1537.8	1194.1	822.3	539.0	376.3	293.5	272.5	263.9	266.1
17.5°	1868.4	1796.0	1478.2	1017.6	591.1	347.8	260.5	237.2	237.2	239.1	239.9
20°	1913.0	1809.1	1390.5	819.7	400.7	253.4	227.9	224.5	226.4	229.4	229.7
22.5°	1957.2	1809.9	1276.2	619.2	280.3	221.9	217.0	215.5	216.6	220.0	220.4
25°	1993.2	1800.9	1133.0	440.4	223.8	209.1	206.9	206.1	206.9	211.0	211.0
27.5°	2007.8	1768.3	958.4	309.6	200.5	194.9	194.1	194.9	196.0	199.0	199.4
30°	2009.3	1711.3	768.0	224.1	181.8	175.8	177.3	179.9	178.8	178.0	178.8
32.5°	2013.0	1645.4	582.4	184.4	166.0	156.7	154.8	154.8	150.3	147.7	146.2
35°	2025.4	1567.8	422.4	165.7	149.9	139.0	131.9	123.7	115.1	110.6	109.4
37.5°	2044.9	1486.4	302.5	153.3	135.7	123.3	109.8	95.2	82.8	79.5	79.5
40°	2080.5	1402.5	223.8	143.5	124.4	109.1	88.8	69.7	58.5	56.6	56.6
42.5°	2136.7	1314.0	178.4	134.9	114.7	94.4	67.8	50.6	42.4	41.2	40.9
45°	2195.2	1216.6	155.9	126.7	104.2	77.6	50.2	37.5	32.6	31.5	31.5
47.5°	2253.6	1112.8	145.0	118.8	94.1	60.3	37.5	29.6	27.4	27.4	27.7
50°	2303.1	1004.5	137.2	110.2	81.0	45.7	29.6	25.1	24.4	25.9	26.2
52.5°	2315.5	898.0	127.4	99.3	64.8	34.9	24.4	22.1	22.1	22.1	22.1
55°	2308.0	815.6	114.7	85.8	48.0	27.7	21.0	19.5	19.1	19.1	19.1
57.5°	2333.5	766.8	91.8	66.7	34.5	22.5	18.4	17.2	16.5	16.1	16.1
60°	2384.8	735.0	65.6	48.0	25.9	18.7	15.7	14.6	13.5	12.7	12.7
62.5°	2453.0	707.2	48.7	35.6	19.9	15.0	13.1	12.0	10.5	9.7	9.7
65°	2505.5	657.8	37.1	26.6	15.0	12.0	10.1	9.7	7.5	6.7	6.4
67.5°	2425.3	549.1	30.0	19.5	11.2	9.4	7.9	7.5	4.5	3.7	3.7
70°	2080.1	382.3	24.0	14.2	8.2	7.5	6.4	4.9	3.4	3.0	3.0
71°	1886.3	319.3	21.7	12.0	7.1	7.1	6.0	4.1	3.0	2.6	2.6
72.5°	1567.0	226.8	18.4	9.4	6.4	7.5	6.4	3.7	3.0	2.6	2.2
75°	909.6	94.8	12.7	6.4	4.9	9.0	8.2	3.4	2.2	1.9	1.9
77.5°	273.6	34.9	7.1	4.1	3.7	7.9	9.4	3.0	1.1	0.4	0.4
80°	49.8	15.0	4.5	2.6	2.6	4.9	7.1	1.5	0.0	0.0	0.0
82.5°	17.6	7.5	2.6	1.5	1.1	2.2	3.4	0.0	0.0	0.0	0.0
85°	10.1	5.2	1.5	0.7	0.0	0.4	0.7	0.0	0.0	0.0	0.0
87.5°	6.7	1.5	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)