

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: P1209030

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

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T3R-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTI
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8354 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

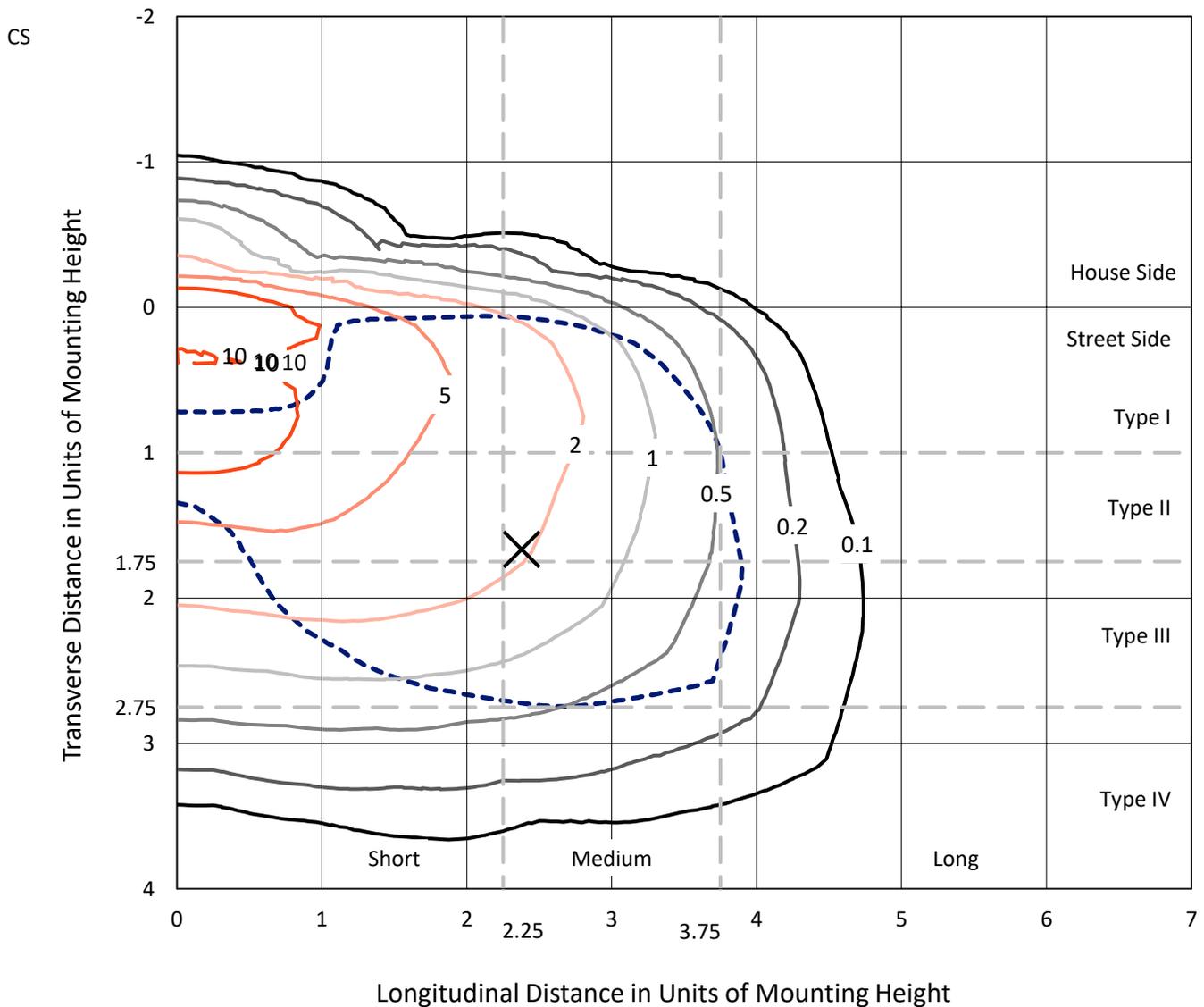
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

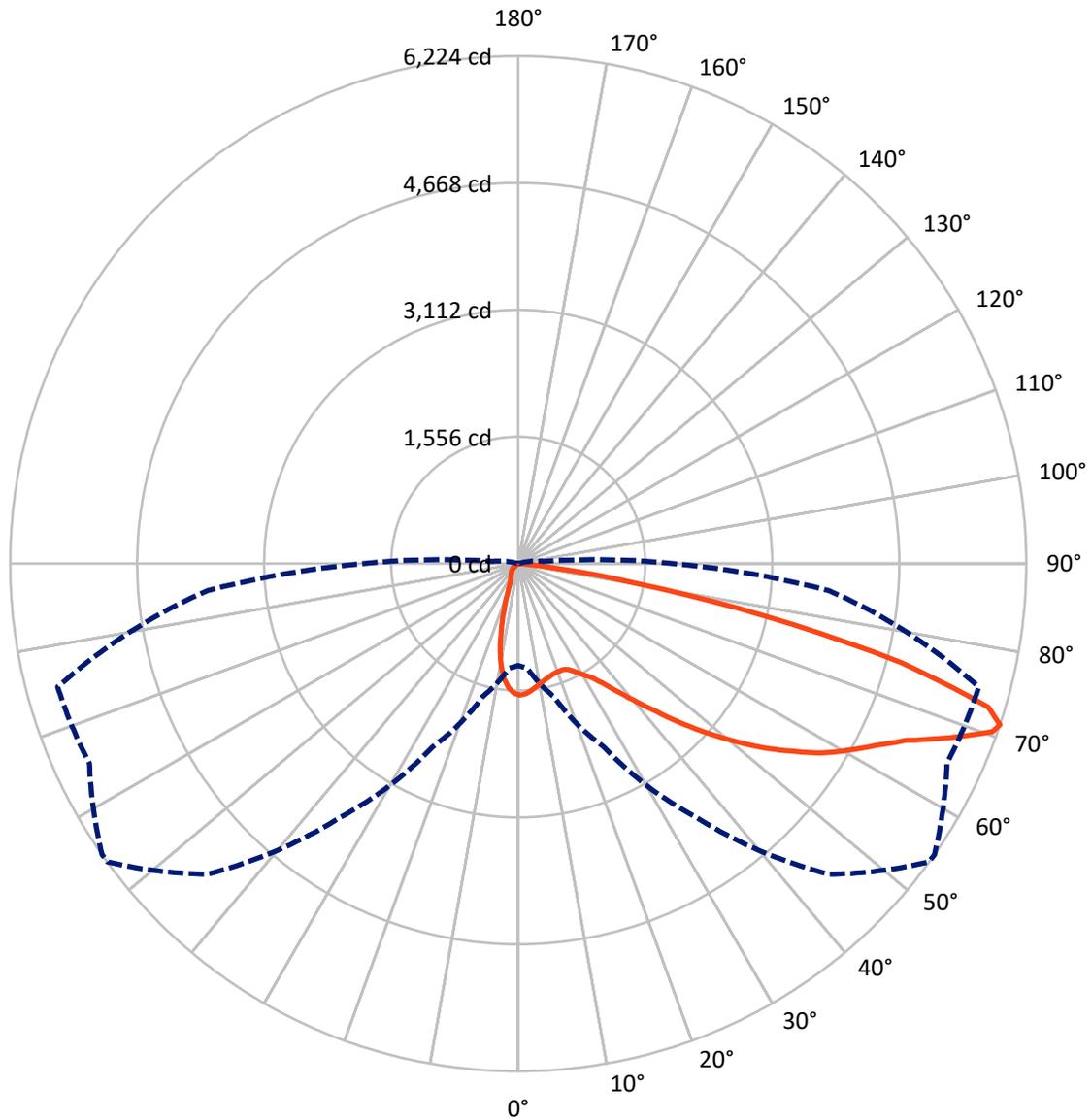
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P1209030
CATALOG NUMBER: UPW-SA2-090-730-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209030

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

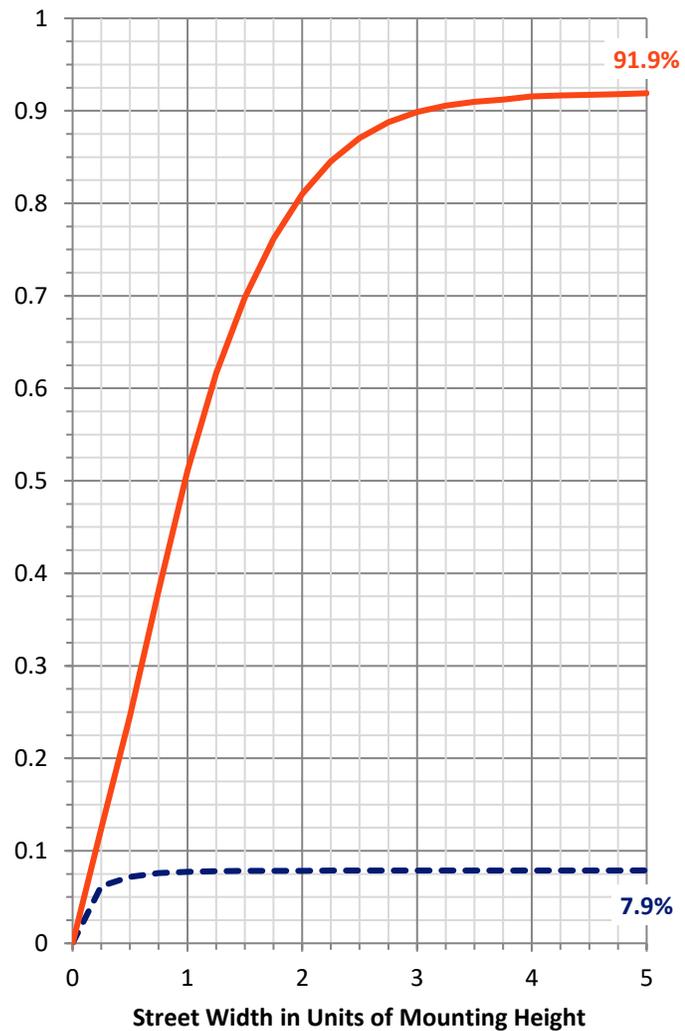
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	661.4	0.0	661.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7692.6	0.0	7692.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	8354.0	0.0	8354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.6
10°-20°	310.1	3.7
20°-30°	498.4	6.0
30°-40°	846.8	10.1
40°-50°	1314.3	15.7
50°-60°	1767.0	21.2
60°-70°	2161.6	25.9
70°-80°	1263.9	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°	8354.0	100.0
0°-180°	8354.0	100.0



--- HS — SS

REPORT NUMBER: P1209030

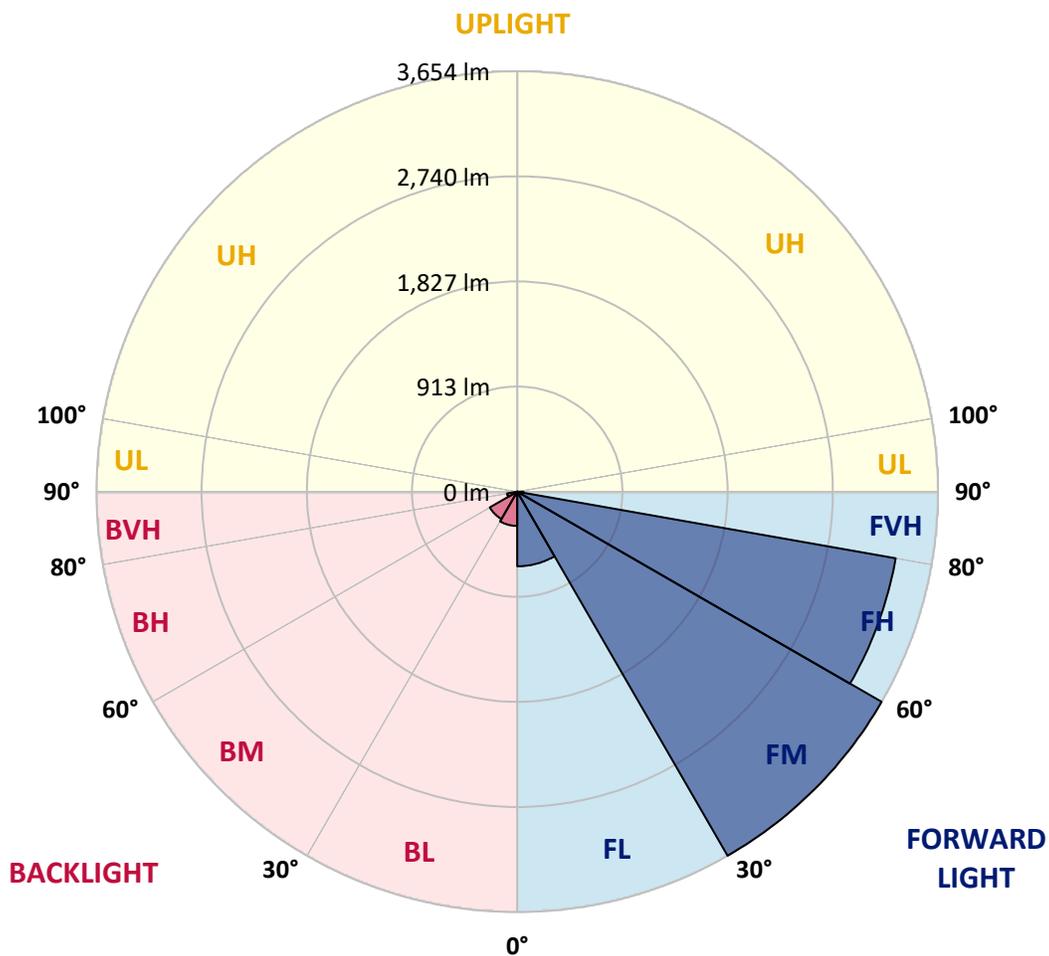
CATALOG NUMBER: UPW-SA2-090-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.2	7.8			
FM (30°-60°)	3653.8	43.7			
FH (60°-80°)	3336.9	39.9			G2/5000
FVH (80°-90°)	53.8	0.6			G1/100
BL (0°-30°)	297.7	3.6	B1/500		
BM (30°-60°)	274.2	3.3	B1/1000		
BH (60°-80°)	88.6	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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CATALOG NUMBER: UPW-SA2-090-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1
2.5°	1563.8	1565.7	1572.5	1575.5	1582.6	1594.6	1600.6	1601.0	1610.7	1614.5	1617.5
5°	1453.2	1464.4	1475.7	1487.7	1509.4	1538.3	1566.8	1569.5	1601.0	1624.2	1636.6
7.5°	1357.9	1368.0	1381.5	1400.7	1431.4	1476.8	1524.4	1530.1	1589.7	1642.6	1670.4
10°	1260.0	1268.2	1287.8	1315.9	1358.3	1419.0	1483.2	1492.6	1579.6	1667.4	1716.1
12.5°	1155.3	1160.2	1183.8	1224.4	1286.6	1363.9	1448.3	1460.7	1573.2	1695.9	1770.1
15°	1075.8	1078.1	1100.6	1142.6	1213.9	1314.4	1421.3	1436.3	1574.7	1730.0	1829.0
17.5°	1055.6	1056.7	1068.7	1097.6	1160.6	1270.1	1399.9	1418.3	1579.2	1763.4	1888.3
20°	1137.7	1129.8	1117.5	1113.0	1140.0	1243.5	1387.2	1407.8	1585.2	1793.0	1941.6
22.5°	1363.2	1339.9	1288.5	1219.9	1178.2	1245.4	1390.5	1411.2	1604.3	1829.4	2003.1
25°	1697.7	1665.5	1578.1	1443.0	1313.3	1299.4	1418.7	1439.7	1641.5	1872.9	2062.0
27.5°	2078.5	2046.6	1939.7	1746.9	1525.6	1406.3	1483.2	1502.7	1696.6	1911.6	2107.0
30°	2443.1	2434.1	2308.1	2089.0	1792.7	1579.6	1566.5	1583.0	1737.5	1934.8	2142.6
32.5°	2752.2	2737.9	2636.7	2423.6	2098.4	1787.8	1664.4	1669.2	1768.3	1964.8	2189.1
35°	3038.8	3021.1	2932.2	2730.8	2412.0	2042.1	1815.2	1808.0	1835.4	2025.2	2256.7
37.5°	3289.0	3305.1	3206.4	3014.8	2693.3	2306.6	2018.5	1997.1	1940.4	2123.5	2354.6
40°	3498.3	3498.3	3446.9	3287.1	2997.1	2580.0	2248.4	2220.3	2098.4	2275.0	2478.7
42.5°	3573.7	3589.8	3608.9	3518.5	3269.1	2864.3	2504.6	2475.4	2320.8	2490.0	2635.5
45°	3578.2	3603.7	3701.6	3701.2	3514.8	3146.8	2793.4	2779.6	2605.9	2766.1	2829.8
47.5°	3514.8	3546.7	3708.0	3799.5	3709.5	3409.8	3109.3	3092.0	2940.9	3104.4	3033.1
50°	3416.9	3452.1	3639.7	3838.1	3841.9	3638.6	3442.0	3416.1	3309.6	3491.2	3243.2
52.5°	3241.7	3310.0	3578.6	3847.1	3928.9	3836.3	3758.6	3747.4	3722.2	3863.6	3410.5
55°	2867.0	2942.7	3425.1	3850.1	4009.6	4011.4	4055.3	4058.3	4109.0	4211.7	3535.0
57.5°	2689.9	2732.7	3157.3	3864.4	4129.2	4210.2	4357.7	4380.9	4459.3	4542.2	3677.2
60°	2578.5	2629.1	3025.3	3844.9	4317.1	4470.9	4637.9	4645.7	4729.8	4883.2	3869.6
62.5°	2489.6	2539.5	2942.0	3769.9	4528.3	4784.5	4911.7	4912.4	4975.5	5289.4	4088.3
65°	2270.2	2312.2	2773.6	3685.5	4667.9	5094.7	5229.8	5224.9	5276.3	5717.8	4342.3
67.5°	1952.8	1985.1	2429.6	3365.5	4615.4	5376.8	5709.9	5693.8	5631.5	6088.0	4442.1
70°	1509.8	1521.4	1914.9	2804.7	4123.2	5485.2	6173.9	6165.7	5849.5	6021.6	4076.3
71°	1248.0	1286.3	1687.6	2475.4	3793.5	5385.1	6219.0	6223.8	5794.7	5840.8	3824.6
72.5°	724.7	757.3	1223.2	1901.1	3220.7	4967.2	5985.6	6020.9	5538.9	5312.7	3266.8
75°	155.3	166.2	453.5	920.1	1771.6	3481.4	4724.5	4850.2	4514.5	3614.2	1969.0
77.5°	108.0	116.7	194.3	417.5	585.5	1720.3	2934.9	3076.7	2697.0	1358.3	630.2
80°	85.5	95.3	151.5	206.3	158.3	554.8	1374.8	1461.4	899.5	303.1	106.2
82.5°	47.6	56.6	118.2	111.4	60.8	105.4	384.9	435.1	180.1	61.1	25.1
85°	13.9	16.9	76.1	81.0	25.9	20.3	65.6	81.4	34.1	16.1	11.3
87.5°	0.0	0.0	36.8	31.1	7.5	3.0	6.0	6.8	6.8	6.8	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



REPORT NUMBER: P1209030

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1	1611.1
2.5°	1617.5	1620.1	1610.7	1598.3	1585.2	1569.1	1552.2	1539.1	1538.7	1532.3	1525.9
5°	1637.4	1635.9	1610.0	1570.6	1524.1	1475.7	1429.5	1377.4	1360.2	1338.8	1331.6
7.5°	1674.1	1663.6	1608.8	1522.6	1420.5	1319.3	1214.6	1109.2	1064.2	1023.7	1016.5
10°	1720.3	1700.4	1601.7	1450.6	1263.4	1076.6	918.6	775.4	712.3	663.9	661.7
12.5°	1768.3	1737.9	1581.8	1341.8	1057.4	794.9	612.9	471.9	419.4	385.6	388.6
15°	1818.5	1773.1	1539.1	1195.1	823.0	539.4	376.6	293.7	272.7	264.1	266.3
17.5°	1869.9	1797.5	1479.4	1018.4	591.5	348.1	260.7	237.4	237.4	239.3	240.1
20°	1914.6	1810.7	1391.7	820.4	401.0	253.6	228.1	224.7	226.6	229.6	229.9
22.5°	1958.8	1811.4	1277.3	619.7	280.6	222.1	217.2	215.7	216.8	220.2	220.6
25°	1994.8	1802.4	1134.0	440.8	223.9	209.3	207.1	206.3	207.1	211.2	211.2
27.5°	2009.5	1769.8	959.2	309.8	200.7	195.1	194.3	195.1	196.2	199.2	199.6
30°	2011.0	1712.8	768.6	224.3	181.9	175.9	177.4	180.1	178.9	178.2	178.9
32.5°	2014.7	1646.7	582.9	184.6	166.2	156.8	154.9	154.9	150.4	147.8	146.3
35°	2027.1	1569.1	422.7	165.8	150.0	139.2	132.0	123.8	115.2	110.7	109.5
37.5°	2046.6	1487.7	302.7	153.4	135.8	123.4	109.9	95.3	82.9	79.5	79.5
40°	2082.2	1403.7	223.9	143.7	124.5	109.2	88.9	69.8	58.5	56.6	56.6
42.5°	2138.5	1315.1	178.6	135.0	114.8	94.5	67.9	50.6	42.4	41.3	40.9
45°	2197.0	1217.6	156.0	126.8	104.3	77.6	50.3	37.5	32.6	31.5	31.5
47.5°	2255.5	1113.7	145.2	118.9	94.2	60.4	37.5	29.6	27.4	27.4	27.8
50°	2305.1	1005.3	137.3	110.3	81.0	45.8	29.6	25.1	24.4	25.9	26.3
52.5°	2317.4	898.8	127.5	99.4	64.9	34.9	24.4	22.1	22.1	22.1	22.1
55°	2309.9	816.2	114.8	85.9	48.0	27.8	21.0	19.5	19.1	19.1	19.1
57.5°	2335.4	767.5	91.9	66.8	34.5	22.5	18.4	17.3	16.5	16.1	16.1
60°	2386.8	735.6	65.6	48.0	25.9	18.8	15.8	14.6	13.5	12.8	12.8
62.5°	2455.1	707.8	48.8	35.6	19.9	15.0	13.1	12.0	10.5	9.8	9.8
65°	2507.6	658.3	37.1	26.6	15.0	12.0	10.1	9.8	7.5	6.8	6.4
67.5°	2427.3	549.5	30.0	19.5	11.3	9.4	7.9	7.5	4.5	3.8	3.8
70°	2081.9	382.6	24.0	14.3	8.3	7.5	6.4	4.9	3.4	3.0	3.0
71°	1887.9	319.6	21.8	12.0	7.1	7.1	6.0	4.1	3.0	2.6	2.6
72.5°	1568.3	226.9	18.4	9.4	6.4	7.5	6.4	3.8	3.0	2.6	2.3
75°	910.4	94.9	12.8	6.4	4.9	9.0	8.3	3.4	2.3	1.9	1.9
77.5°	273.8	34.9	7.1	4.1	3.8	7.9	9.4	3.0	1.1	0.4	0.4
80°	49.9	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	2.3	3.4	0.0	0.0	0.0	0.0
85°	10.1	5.3	1.5	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	6.8	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)