

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199197

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL3-8030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7940 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

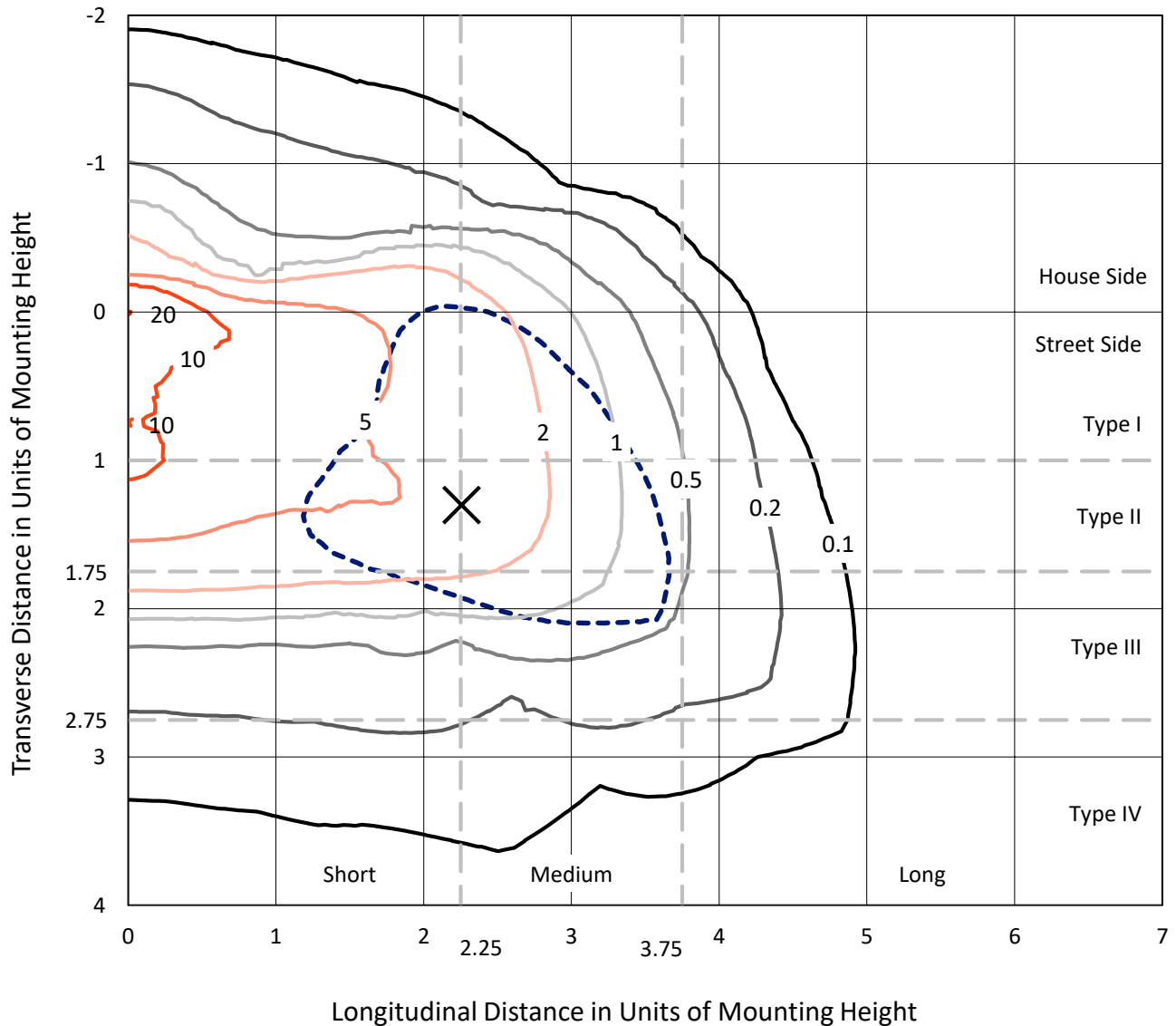


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

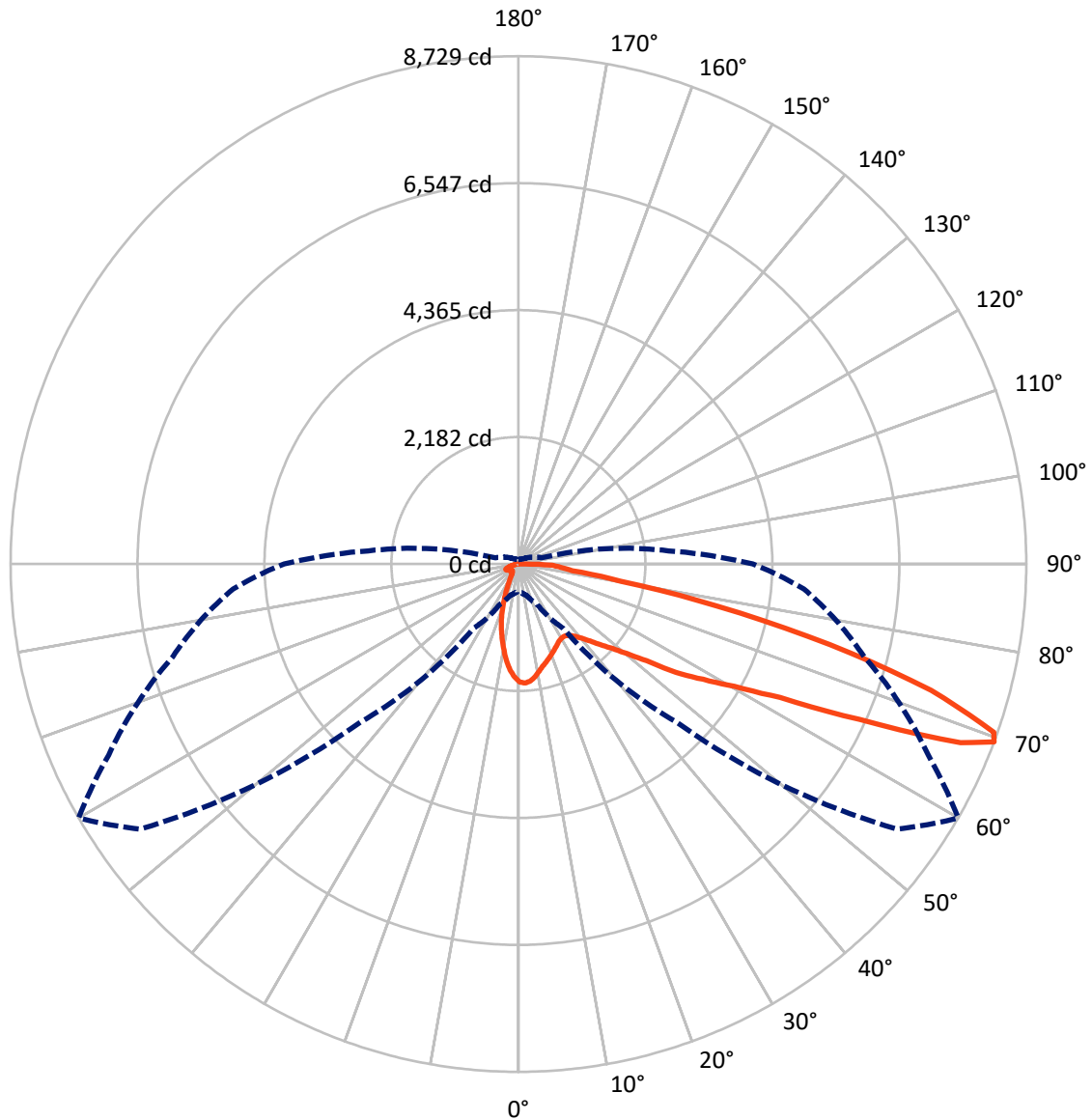


Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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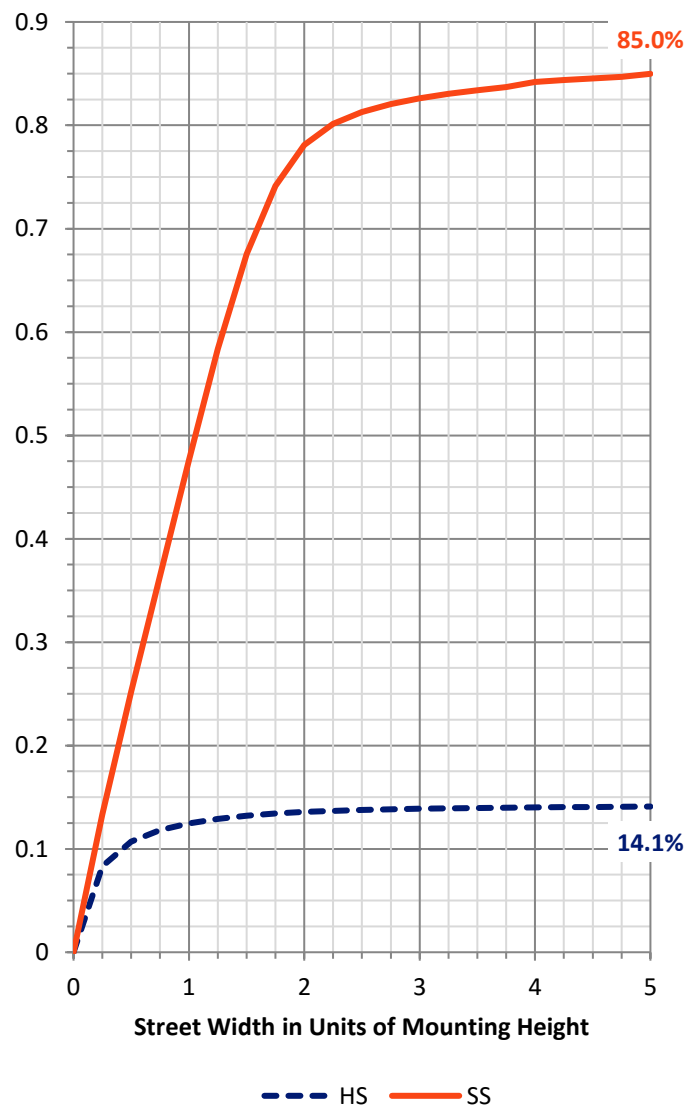
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.5	0.0	1132.5
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	6807.5	0.0	6807.5
	% Fixture	85.7	0.0	85.7
Total	Lumens	7940.0	0.0	7940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	2.2
10°-20°	368.0	4.6
20°-30°	469.4	5.9
30°-40°	646.0	8.1
40°-50°	1046.4	13.2
50°-60°	1642.2	20.7
60°-70°	2189.4	27.6
70°-80°	1217.8	15.3
80°-90°	188.9	2.4
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°	7940.0	100.0
0°-180°	7940.0	100.0

Coefficient of Utilization



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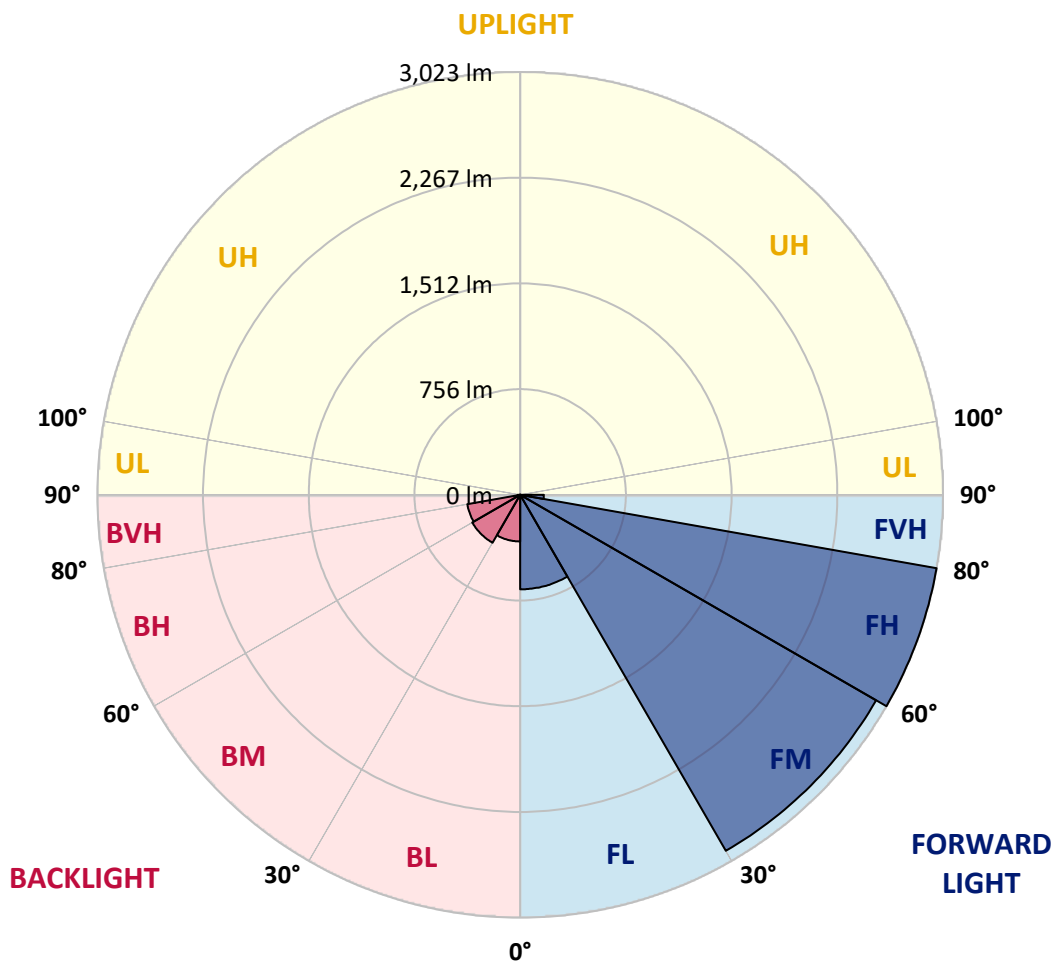
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.5	8.5			
FM (30°-60°)	2939.0	37.0			
FH (60°-80°)	3023.2	38.1			G2/5000
FVH (80°-90°)	169.7	2.1			G2/225
BL (0°-30°)	333.8	4.2	B1/500		
BM (30°-60°)	395.6	5.0	B1/1000		
BH (60°-80°)	384.0	4.8	B1/500		G1/500
BVH (80°-90°)	19.1	0.2			G1/100
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°	55°	60°	65°	75°	85°
0°	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9
2.5°	2079.9	2085.5	2085.5	2080.9	2078.4	2063.6	2054.9	2048.8	2038.1	2018.3	2000.5
5°	2005.6	2016.2	2020.8	2022.9	2036.1	2031.5	2032.0	2028.0	2018.8	1997.4	1968.4
7.5°	1869.1	1871.1	1879.3	1893.0	1925.1	1947.5	1965.8	1969.4	1967.4	1951.6	1910.8
10°	1734.7	1738.2	1747.9	1771.3	1801.9	1834.0	1873.7	1890.0	1902.2	1897.1	1845.7
12.5°	1623.2	1623.7	1634.4	1661.4	1695.5	1735.7	1789.7	1815.1	1844.1	1855.9	1798.3
15°	1515.7	1522.9	1533.1	1565.6	1607.9	1658.8	1720.9	1756.1	1794.3	1827.9	1761.7
17.5°	1434.3	1439.9	1446.0	1473.0	1521.9	1585.5	1662.4	1700.1	1750.5	1801.9	1724.0
20°	1389.5	1391.5	1386.9	1400.2	1441.4	1510.1	1599.2	1644.6	1704.6	1776.9	1685.3
22.5°	1380.3	1380.3	1363.5	1361.0	1379.3	1437.3	1534.1	1589.6	1662.9	1759.6	1650.7
25°	1423.1	1420.0	1388.5	1359.4	1352.8	1382.3	1472.0	1540.2	1627.3	1759.1	1624.7
27.5°	1504.0	1500.0	1460.8	1411.9	1369.6	1356.9	1424.1	1493.9	1599.2	1776.4	1611.5
30°	1604.8	1603.3	1563.6	1502.5	1432.8	1367.1	1405.3	1469.9	1580.4	1808.5	1611.0
32.5°	1715.3	1708.2	1683.8	1622.7	1532.0	1423.6	1416.5	1470.9	1575.3	1855.4	1622.7
35°	1832.9	1827.9	1821.7	1760.1	1658.3	1523.4	1465.8	1506.1	1600.3	1920.5	1655.8
37.5°	1982.6	1977.0	1987.2	1920.0	1808.5	1654.2	1549.3	1576.3	1651.2	2015.2	1717.4
40°	2248.9	2232.6	2204.1	2100.8	1983.7	1814.6	1670.0	1674.1	1738.2	2142.0	1816.1
42.5°	2686.3	2633.8	2492.8	2302.9	2168.5	2001.0	1827.3	1808.0	1858.4	2309.5	1959.7
45°	3124.7	3065.6	2827.3	2523.4	2359.9	2201.1	2021.8	1975.5	2008.1	2504.5	2144.5
47.5°	3407.8	3378.7	3109.9	2743.8	2560.5	2419.0	2244.3	2168.0	2191.4	2725.5	2372.6
50°	3490.7	3465.8	3254.5	2916.4	2749.9	2682.2	2519.8	2418.5	2422.5	2983.6	2646.1
52.5°	3428.6	3418.4	3278.4	3023.3	2924.1	2959.7	2901.1	2760.1	2726.5	3266.7	2942.4
55°	3345.6	3349.2	3295.2	3130.8	3101.2	3218.4	3400.1	3286.6	3144.0	3561.5	3250.9
57.5°	3084.4	3087.0	3228.5	3335.5	3439.3	3580.9	3788.6	3740.7	3574.8	3879.7	3596.7
60°	2483.6	2503.5	2818.7	3293.2	3825.8	4295.2	4346.1	4263.6	4033.0	4246.3	4046.2
62.5°	1774.4	1792.2	2157.3	2858.9	3780.5	5103.7	5375.6	5047.7	4654.7	4794.7	4678.6
65°	932.3	929.2	1211.8	1975.5	3184.2	5291.1	6997.8	6439.8	5702.0	5548.7	5289.6
67.5°	520.9	537.7	647.1	996.4	2075.3	4656.7	8033.9	8198.4	7158.2	6147.0	5263.1
69°	481.7	487.3	560.6	770.3	1352.8	3842.1	7944.8	8729.4	7772.2	6149.5	4924.0
70°	467.9	474.0	540.7	709.8	1136.4	3148.1	7620.5	8667.3	7921.4	6013.1	4615.5
72.5°	419.5	427.7	492.4	638.0	957.7	1622.7	6138.3	7418.3	7175.5	5255.5	3578.8
75°	357.9	371.7	469.4	633.4	907.3	1031.5	4093.6	5526.8	5340.5	3758.6	2030.5
77.5°	148.2	149.7	205.2	463.8	952.1	987.2	2200.0	3500.9	3099.2	1648.1	611.5
80°	103.4	101.3	102.3	135.4	768.3	993.9	1128.8	1780.5	1383.9	434.8	286.1
82.5°	87.1	86.0	90.1	85.0	260.2	1127.8	944.0	928.2	651.7	234.2	136.5
85°	57.5	56.0	73.8	77.4	123.7	895.6	1015.2	729.6	485.7	125.3	58.0
87.5°	28.0	28.5	42.3	52.4	65.7	283.6	972.5	576.9	375.2	54.5	23.4
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°	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9
2.5°	1993.3	1978.1	1964.3	1947.0	1933.8	1922.6	1907.3	1906.8	1904.2	1907.8	1908.8
5°	1949.0	1923.6	1884.9	1841.6	1811.1	1770.8	1731.6	1718.4	1703.6	1702.1	1706.7
7.5°	1882.3	1842.6	1776.4	1710.2	1644.1	1576.3	1512.2	1479.6	1448.0	1438.4	1442.9
10°	1808.0	1757.6	1656.3	1548.3	1455.2	1354.3	1256.6	1193.5	1135.9	1111.5	1117.6
12.5°	1750.0	1685.8	1543.2	1403.2	1263.7	1119.1	990.3	865.6	771.4	729.1	731.7
15°	1700.1	1618.1	1437.3	1251.0	1076.3	878.3	699.6	555.0	472.5	441.9	440.9
17.5°	1646.1	1546.8	1326.9	1109.4	882.9	638.0	468.4	382.9	350.3	340.1	340.1
20°	1588.6	1473.5	1211.3	955.2	679.2	445.5	352.3	319.2	307.0	304.0	303.5
22.5°	1535.1	1401.7	1095.2	790.7	491.3	338.1	299.9	287.2	285.1	287.7	287.7
25°	1492.8	1338.6	977.6	617.6	357.4	283.1	266.8	265.3	272.9	282.1	283.6
27.5°	1461.3	1282.0	861.5	451.1	281.1	246.4	240.8	247.4	265.3	283.6	287.2
30°	1439.4	1233.7	722.5	324.3	234.2	215.9	218.4	230.1	257.1	285.1	292.8
32.5°	1429.7	1194.5	582.5	249.0	200.1	189.9	196.5	211.8	239.8	267.8	277.0
35°	1438.9	1166.0	453.1	206.7	175.1	167.5	175.1	190.9	209.3	223.0	228.6
37.5°	1472.0	1155.8	341.1	183.3	158.9	151.2	157.3	168.0	176.2	181.3	183.8
40°	1541.7	1166.5	267.3	171.1	149.7	141.0	142.6	147.7	153.3	157.3	157.8
42.5°	1652.7	1201.6	237.8	166.5	144.1	132.9	130.3	133.9	140.0	145.6	146.6
45°	1800.4	1260.2	234.7	168.0	141.5	126.3	121.2	124.7	132.9	142.1	143.6
47.5°	1991.3	1352.8	249.0	176.2	143.1	122.7	115.1	118.6	129.3	141.5	143.6
50°	2217.4	1481.1	275.5	188.4	150.2	122.7	112.5	115.6	126.8	140.5	142.6
52.5°	2483.6	1659.8	302.9	200.6	160.4	127.3	113.5	113.0	123.2	135.9	138.5
55°	2777.4	1881.8	329.4	211.3	166.0	133.4	116.1	110.0	118.1	128.3	130.3
57.5°	3123.1	2185.8	375.8	221.5	169.0	138.0	119.1	106.9	111.5	118.6	120.2
60°	3592.1	2632.3	465.9	238.8	174.6	140.0	119.7	103.9	103.4	108.4	109.0
62.5°	4203.6	3155.2	551.9	259.2	185.8	140.5	117.6	101.8	96.7	98.3	98.3
65°	4638.4	3347.7	527.0	276.5	196.0	140.0	115.6	100.3	91.6	89.1	89.1
67.5°	4390.9	2957.2	447.5	281.1	197.0	134.4	111.0	96.7	87.1	81.0	81.0
69°	4027.4	2592.1	410.9	272.9	188.9	127.8	105.9	93.2	84.0	76.9	76.9
70°	3731.1	2315.6	388.5	263.2	179.2	122.2	101.3	89.6	81.0	74.8	74.3
72.5°	2785.6	1545.3	332.0	227.1	147.1	103.4	88.6	79.9	72.8	68.7	68.7
75°	1469.9	774.4	271.9	185.3	113.5	82.5	72.8	67.2	63.1	62.6	62.1
77.5°	481.7	350.3	195.5	139.5	83.5	64.2	58.0	54.5	54.0	56.0	56.0
80°	260.2	209.3	125.8	94.2	58.0	47.9	44.8	44.3	45.8	48.9	48.9
82.5°	126.3	103.4	74.8	58.0	39.7	35.1	35.1	35.6	37.7	41.2	41.2
85°	54.5	48.9	43.3	32.6	24.4	21.9	24.9	27.5	29.0	31.6	32.6
87.5°	26.0	22.9	19.9	12.7	10.7	11.2	13.2	16.3	19.3	21.4	21.9
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)