

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: P963459

Luminaire Tested: **NVN-SB3A-727-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-727-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13136.4 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

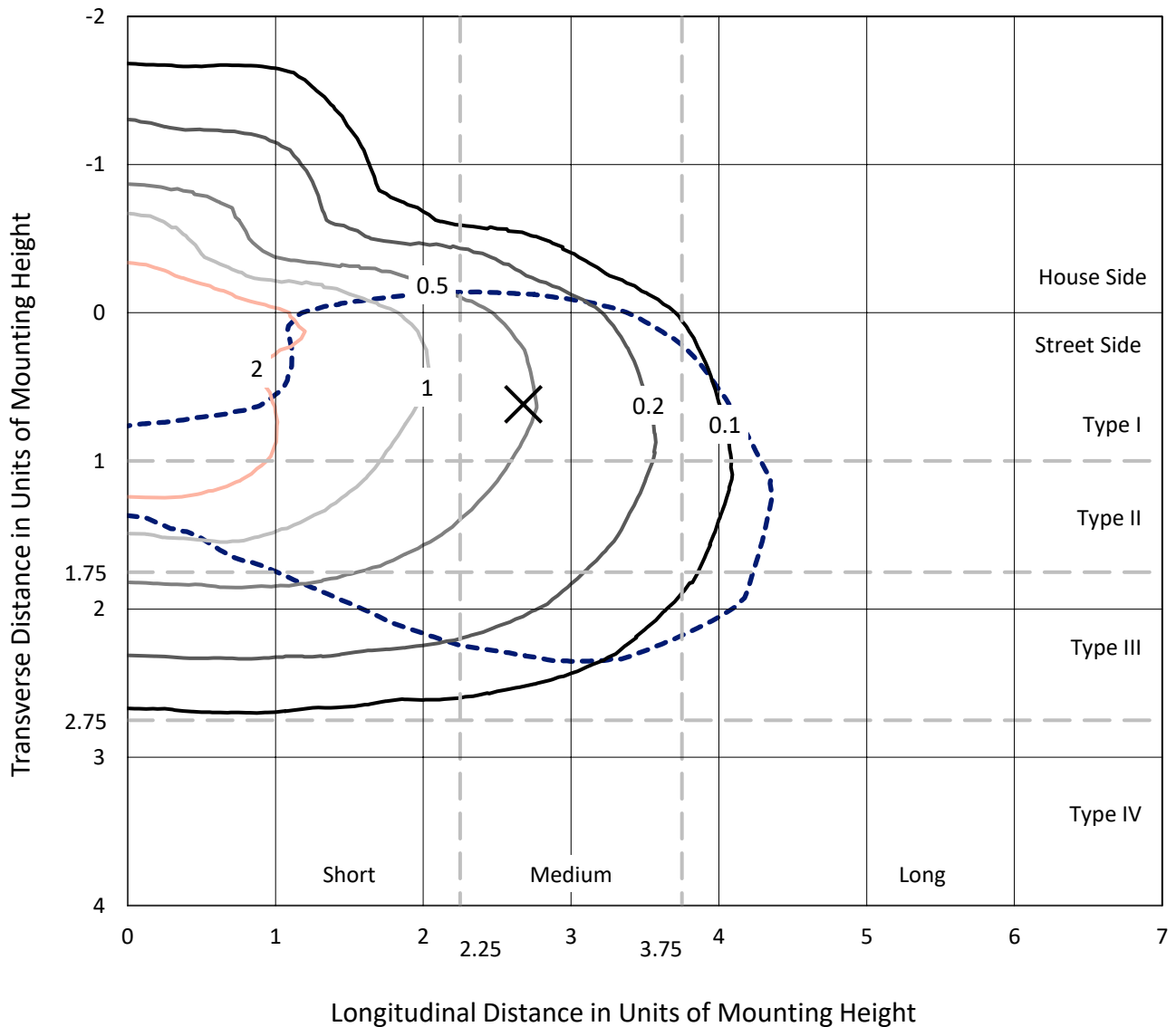
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P963459  
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### Iso-Footcandle Lines of Horizontal Illumination

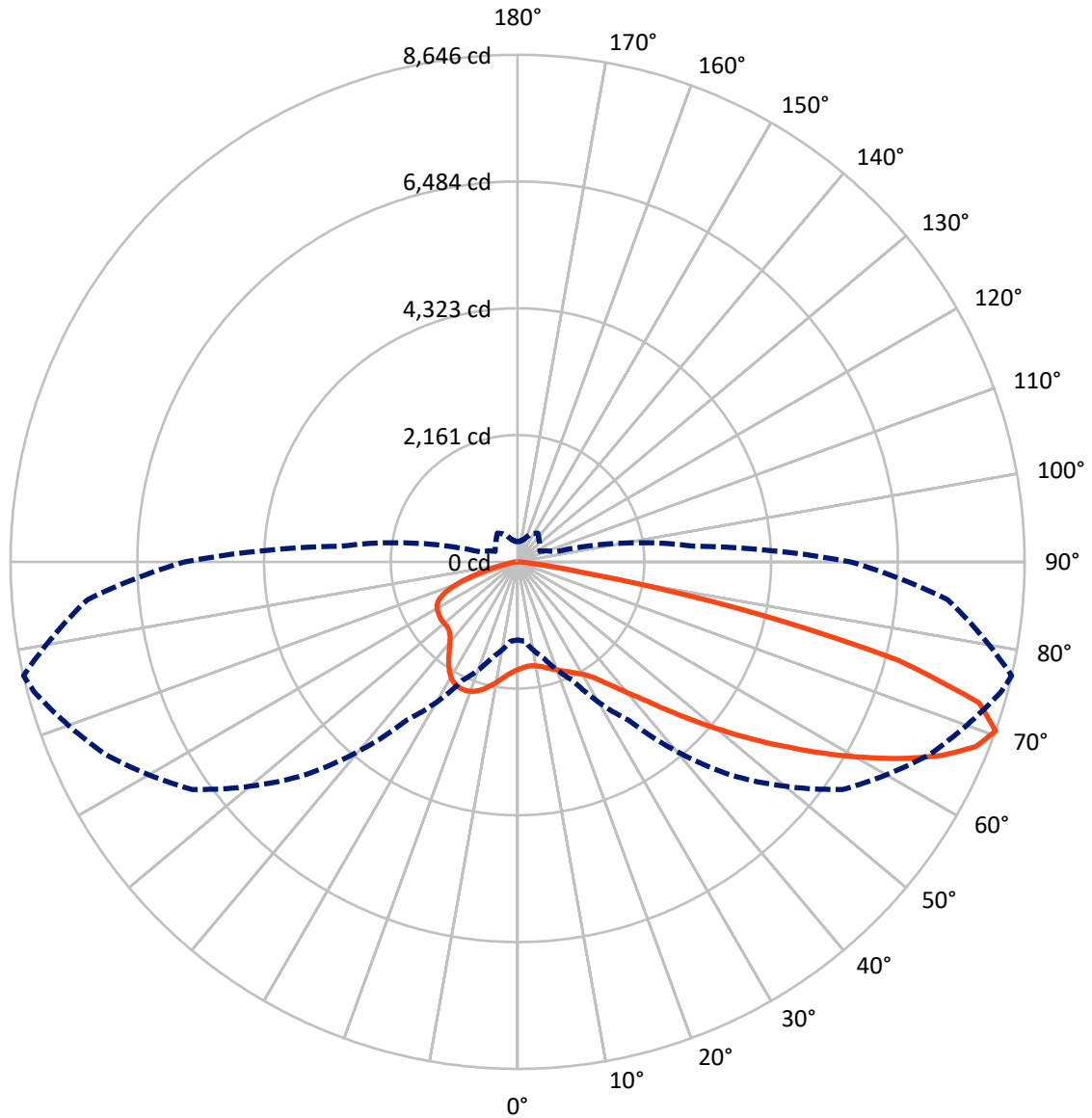
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P963459  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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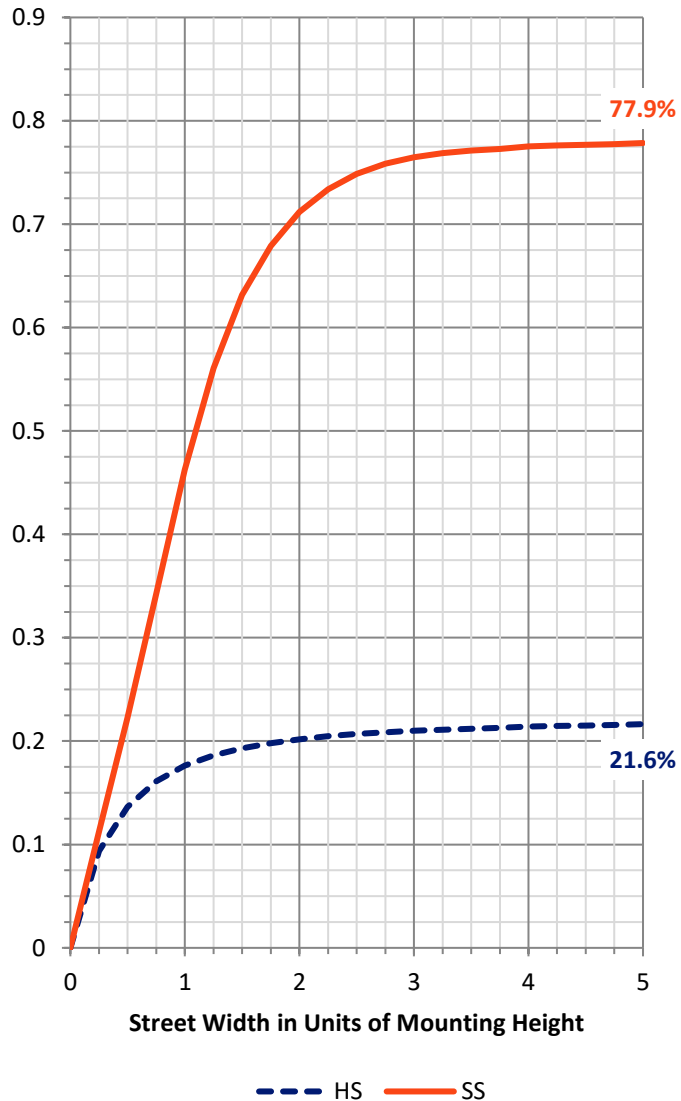
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2876.7	0.0	2876.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10259.7	0.0	10259.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	13136.4	0.0	13136.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.8	1.3
10°-20°	504.4	3.8
20°-30°	862.7	6.6
30°-40°	1387.3	10.6
40°-50°	2165.9	16.5
50°-60°	2893.1	22.0
60°-70°	3083.6	23.5
70°-80°	1898.3	14.5
80°-90°	166.3	1.3
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°	13136.4	100.0
0°-180°	13136.4	100.0

**Coefficient of Utilization**



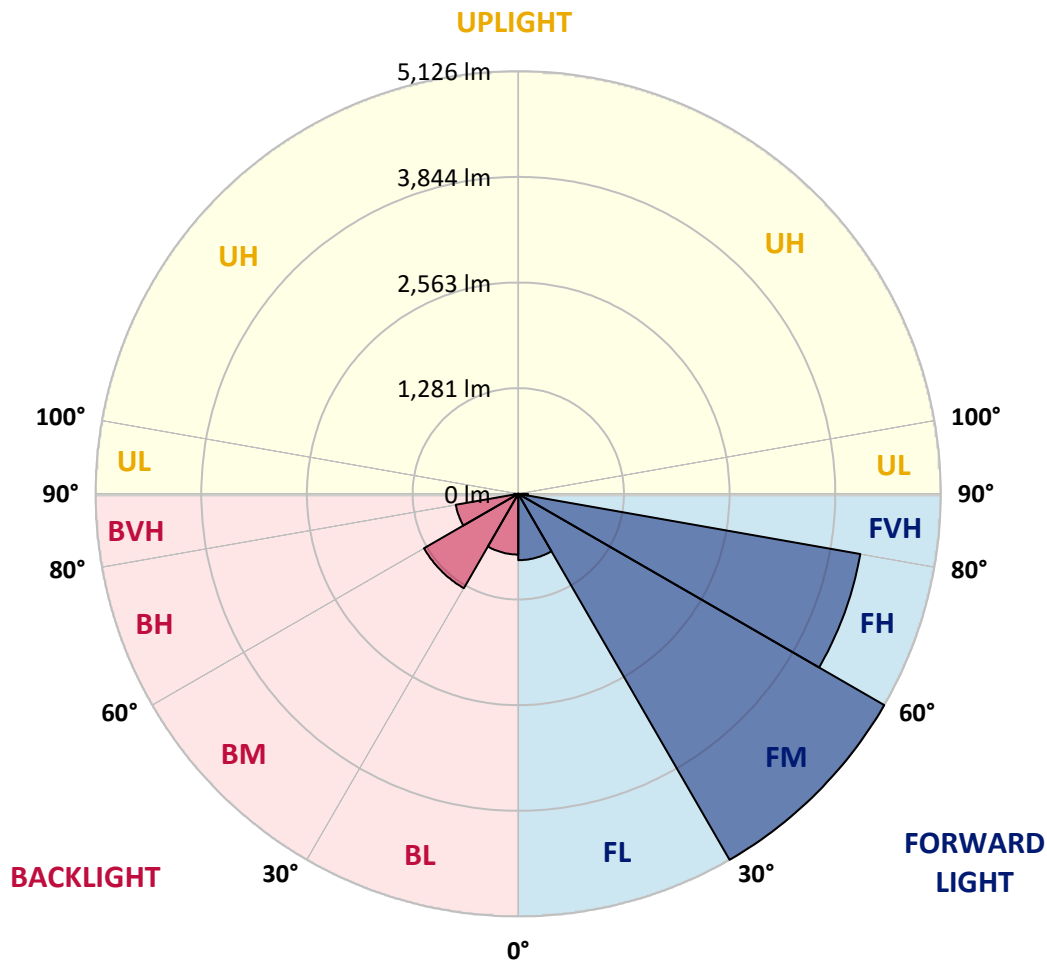
REPORT NUMBER: P963459  
 CATALOG NUMBER: NVN-SB3A-727-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.8	6.1			
FM (30°-60°)	5125.5	39.0			
FH (60°-80°)	4213.1	32.1			G2/5000
FVH (80°-90°)	116.3	0.9			G2/225
BL (0°-30°)	737.1	5.6	B2/1000		
BM (30°-60°)	1320.7	10.1	B2/2500		
BH (60°-80°)	768.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	50.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	1689.3	1688.7	1697.4	1700.1	1716.3	1727.7	1749.3	1772.1	1801.7	1805.0	1823.3
5°	1591.8	1591.8	1601.9	1612.6	1633.5	1656.4	1689.3	1729.1	1780.2	1788.2	1833.3
7.5°	1509.0	1514.4	1523.1	1544.1	1568.2	1601.3	1651.7	1708.2	1775.5	1788.2	1860.9
10°	1442.5	1448.5	1459.3	1476.1	1512.4	1558.2	1624.1	1696.8	1786.9	1807.1	1901.3
12.5°	1421.6	1427.6	1433.7	1446.5	1480.1	1533.9	1612.6	1702.1	1814.5	1834.6	1956.4
15°	1470.1	1477.4	1472.7	1469.3	1486.9	1536.0	1618.1	1721.6	1848.8	1877.7	2024.4
17.5°	1581.7	1584.3	1573.6	1542.0	1539.3	1565.6	1643.6	1748.5	1891.8	1923.5	2093.0
20°	1762.0	1757.3	1735.1	1672.5	1636.8	1631.5	1687.4	1788.9	1936.2	1969.8	2167.1
22.5°	2006.8	2001.5	1957.1	1858.2	1778.8	1726.3	1750.6	1841.4	1986.0	2023.8	2239.0
25°	2312.3	2304.9	2239.7	2105.1	1982.0	1852.2	1836.7	1910.7	2047.2	2082.3	2314.3
27.5°	2668.9	2662.8	2592.2	2414.6	2237.0	2024.4	1943.6	1992.1	2111.2	2150.9	2399.1
30°	3052.3	3069.9	2944.7	2753.7	2529.0	2249.1	2087.6	2092.3	2193.9	2229.6	2502.0
32.5°	3503.1	3533.4	3382.7	3140.5	2833.7	2493.3	2269.2	2232.2	2314.3	2344.0	2631.9
35°	3949.8	3984.2	3859.0	3591.3	3238.1	2781.2	2459.0	2393.1	2474.5	2506.7	2804.1
37.5°	4336.1	4381.8	4317.2	4084.4	3670.6	3128.4	2706.6	2582.1	2671.6	2711.9	3035.5
40°	4640.8	4710.8	4706.1	4560.7	4180.7	3549.6	3020.8	2815.6	2916.5	2960.2	3316.1
42.5°	4888.4	4948.9	5001.4	4994.0	4712.8	4027.9	3390.1	3119.0	3195.7	3246.2	3631.7
45°	5059.3	5123.9	5236.9	5358.7	5224.8	4539.9	3813.3	3479.0	3548.9	3624.9	4007.7
47.5°	5212.0	5285.3	5432.0	5625.1	5659.4	5053.9	4276.8	3898.1	3962.0	4040.8	4385.2
50°	5225.4	5288.7	5516.1	5789.9	5968.2	5547.7	4774.8	4368.3	4428.2	4512.4	4789.5
52.5°	4900.5	5000.1	5397.0	5785.2	6110.1	5960.8	5269.2	4857.5	4924.7	5025.7	5208.0
55°	3803.9	3949.8	5047.8	5604.9	6059.7	6227.9	5739.5	5377.6	5463.7	5569.2	5629.1
57.5°	3276.4	3340.4	4007.0	5276.6	5829.6	6297.2	6136.4	5903.0	6041.6	6157.3	6074.6
60°	2944.7	2997.9	3392.1	4765.9	5526.9	6187.5	6443.2	6392.7	6632.3	6770.1	6530.0
62.5°	2589.6	2640.0	2998.5	3979.5	5139.3	6005.2	6637.0	6844.8	7237.7	7388.4	6959.2
65°	2237.0	2280.0	2623.8	3343.8	4646.8	5822.9	6737.2	7235.7	7798.2	7954.2	7315.8
67.5°	1844.1	1879.7	2204.7	2821.0	4048.1	5573.3	6786.9	7543.2	8285.9	8419.9	7492.0
70°	1330.8	1358.3	1694.0	2230.9	3296.6	5144.1	6766.8	7761.2	8538.9	8645.9	7358.9
72.5°	629.0	653.9	1048.2	1448.5	2328.5	4308.5	6358.4	7588.3	8281.9	8228.7	6543.4
75°	335.7	357.2	602.2	794.6	1229.8	2953.5	5203.3	6536.7	6954.5	6696.1	4836.0
77.5°	227.4	244.3	372.7	477.0	561.8	1402.1	3344.4	4525.8	4354.2	3927.7	2422.0
80°	180.3	197.8	305.4	323.0	271.8	506.6	1381.9	2095.0	1505.0	1203.6	688.9
82.5°	138.6	158.1	257.0	234.1	148.0	207.9	402.3	662.7	385.5	293.4	166.9
85°	84.8	105.6	201.8	149.3	83.4	94.8	136.5	184.3	117.8	98.2	59.9
87.5°	43.0	60.6	102.3	54.5	37.7	22.2	36.3	36.3	31.0	27.0	15.5
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°	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	1839.4	1852.8	1875.7	1897.3	1914.1	1930.2	1946.4	1955.1	1957.7	1968.5	1974.6
5°	1860.9	1885.8	1930.2	1971.9	1998.1	2014.3	2025.7	2032.5	2033.8	2037.2	2042.5
7.5°	1900.6	1940.3	2002.2	2043.8	2063.4	2062.1	2057.4	2040.6	2033.8	2027.8	2029.1
10°	1956.4	2008.9	2085.0	2113.9	2101.8	2069.5	2027.8	1978.7	1955.8	1933.6	1926.8
12.5°	2025.7	2092.3	2167.1	2165.7	2105.8	2023.0	1926.2	1850.8	1803.1	1768.7	1760.6
15°	2109.9	2186.5	2243.7	2198.0	2066.8	1918.1	1776.1	1677.9	1634.9	1597.2	1593.2
17.5°	2196.6	2278.7	2304.9	2187.9	1968.5	1762.7	1601.9	1524.5	1482.1	1462.0	1468.0
20°	2281.3	2362.8	2341.3	2130.1	1819.2	1586.4	1443.1	1400.8	1391.9	1396.7	1394.7
22.5°	2370.8	2443.5	2348.7	2018.3	1628.8	1406.1	1327.4	1328.7	1348.3	1362.3	1365.7
25°	2462.4	2511.5	2329.1	1856.9	1424.2	1273.6	1254.1	1275.6	1313.9	1341.5	1348.9
27.5°	2550.5	2572.0	2286.8	1657.0	1248.7	1178.8	1182.0	1226.5	1284.3	1322.7	1332.1
30°	2650.0	2625.8	2205.4	1432.3	1126.9	1097.3	1125.6	1177.3	1235.2	1269.6	1277.6
32.5°	2762.5	2672.3	2076.2	1224.5	1040.8	1032.1	1078.5	1112.1	1137.6	1147.8	1153.1
35°	2902.4	2737.6	1910.7	1078.5	963.4	984.3	1028.7	1011.9	1001.7	996.4	1001.7
37.5°	3084.0	2825.6	1717.0	983.6	900.9	950.0	968.1	915.6	876.0	856.5	861.2
40°	3302.7	2954.9	1530.5	910.3	861.2	920.3	888.8	825.5	775.0	747.4	749.5
42.5°	3545.6	3090.1	1373.8	855.1	839.0	896.2	830.2	754.8	673.4	664.7	673.4
45°	3800.5	3229.4	1266.8	812.7	828.2	875.2	796.5	674.8	616.9	652.6	671.5
47.5°	4055.5	3357.2	1202.2	781.0	822.8	851.8	767.0	630.4	589.4	641.1	665.3
50°	4339.4	3471.6	1173.3	758.2	816.7	842.3	722.5	619.0	560.5	594.7	620.3
52.5°	4621.3	3560.3	1151.8	735.3	808.0	835.0	701.0	605.5	525.4	527.5	541.6
55°	4902.6	3618.2	1128.2	705.1	788.5	818.8	699.0	590.7	499.2	489.7	496.5
57.5°	5202.6	3651.2	1099.3	671.5	754.8	777.8	697.0	579.2	491.1	475.7	477.6
60°	5508.0	3699.6	1061.7	630.4	709.8	728.6	692.3	575.2	486.5	460.2	462.2
62.5°	5781.8	3716.4	1016.6	591.3	651.9	680.2	682.2	571.8	473.7	428.6	428.6
65°	5961.5	3643.8	937.9	546.9	589.4	630.4	662.7	560.5	450.8	405.7	405.7
67.5°	5954.1	3436.5	814.8	489.7	528.8	575.2	634.5	540.9	423.2	377.4	379.5
70°	5676.9	3027.5	658.7	423.2	462.2	516.0	598.1	512.0	390.2	346.4	350.5
72.5°	4868.9	2369.5	478.4	345.1	384.8	454.8	551.0	477.0	356.6	318.9	316.8
75°	3478.2	1499.6	324.3	265.1	299.4	385.5	492.5	435.9	325.6	320.2	302.1
77.5°	1776.8	716.5	214.6	193.7	208.6	304.1	413.8	389.5	330.4	264.4	235.4
80°	577.9	264.4	135.2	131.8	138.6	202.5	320.2	319.6	250.3	179.7	158.8
82.5°	184.3	113.7	88.1	84.8	81.4	127.2	223.3	253.0	168.8	113.7	113.1
85°	73.3	68.0	51.8	47.8	34.3	59.9	117.1	168.2	125.8	82.1	84.0
87.5°	27.0	27.0	14.1	10.0	7.4	20.2	31.6	50.4	72.0	42.4	41.7
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)