

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: P965779

Luminaire Tested: **NVN-SB4A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12654.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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

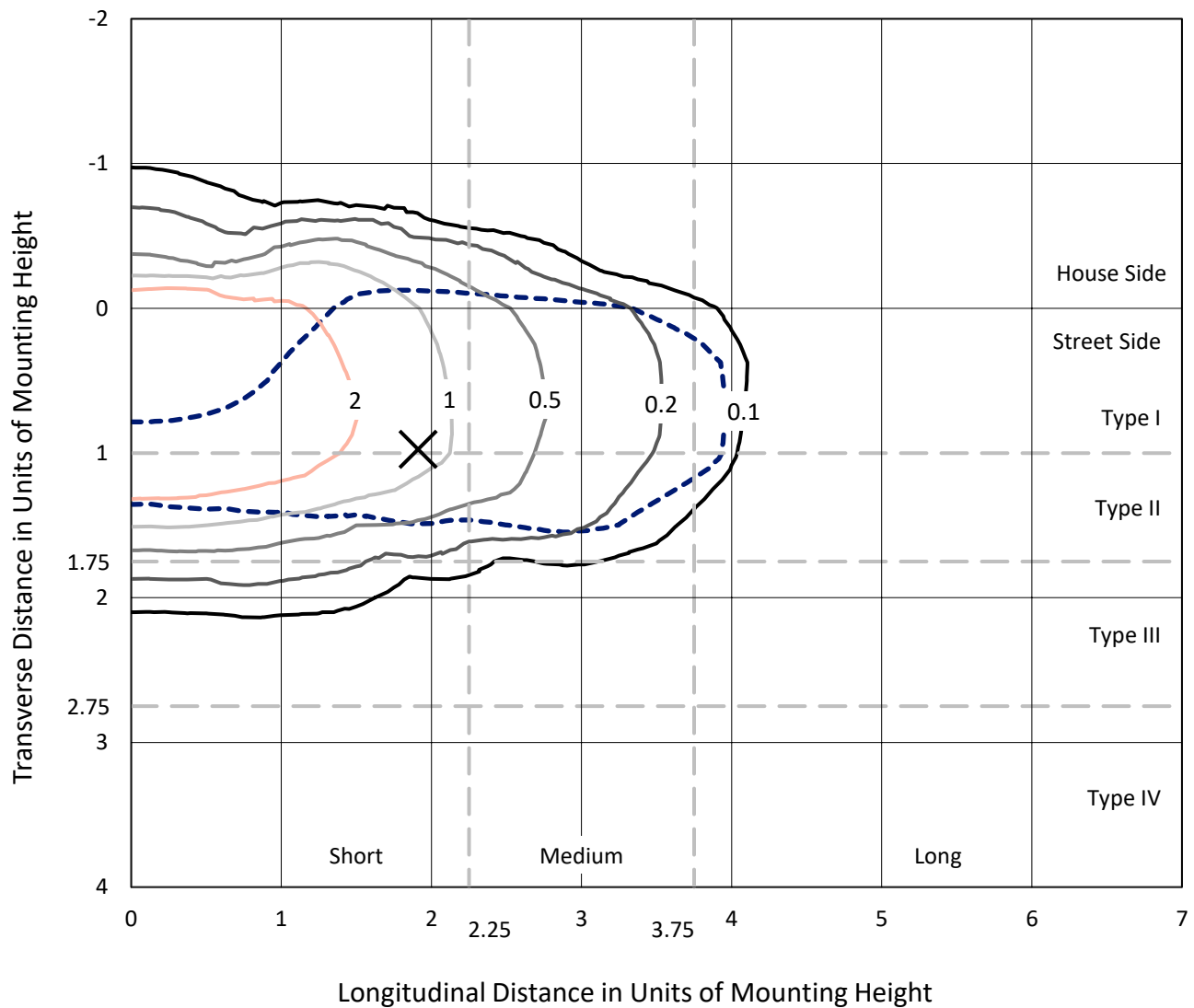


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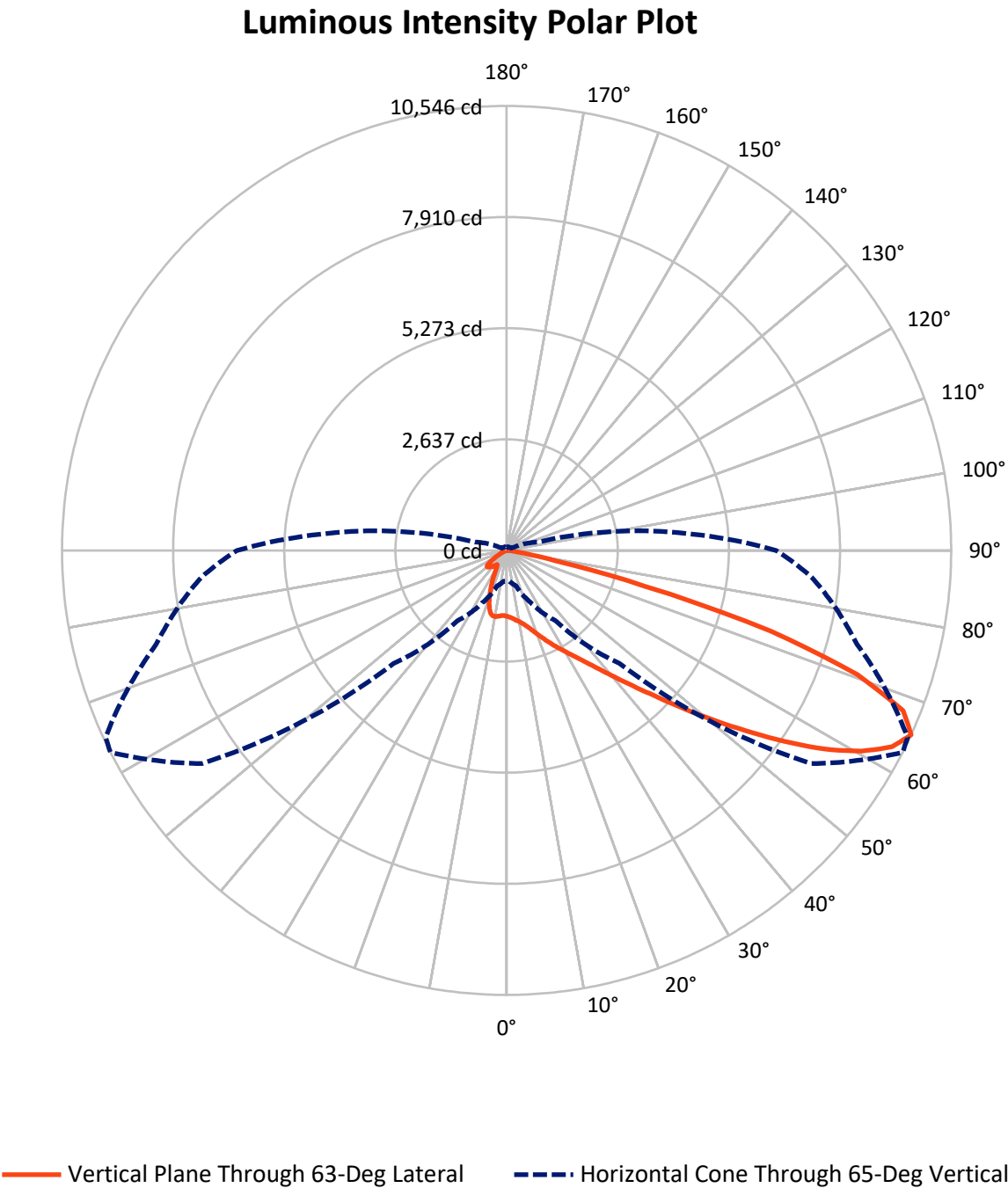
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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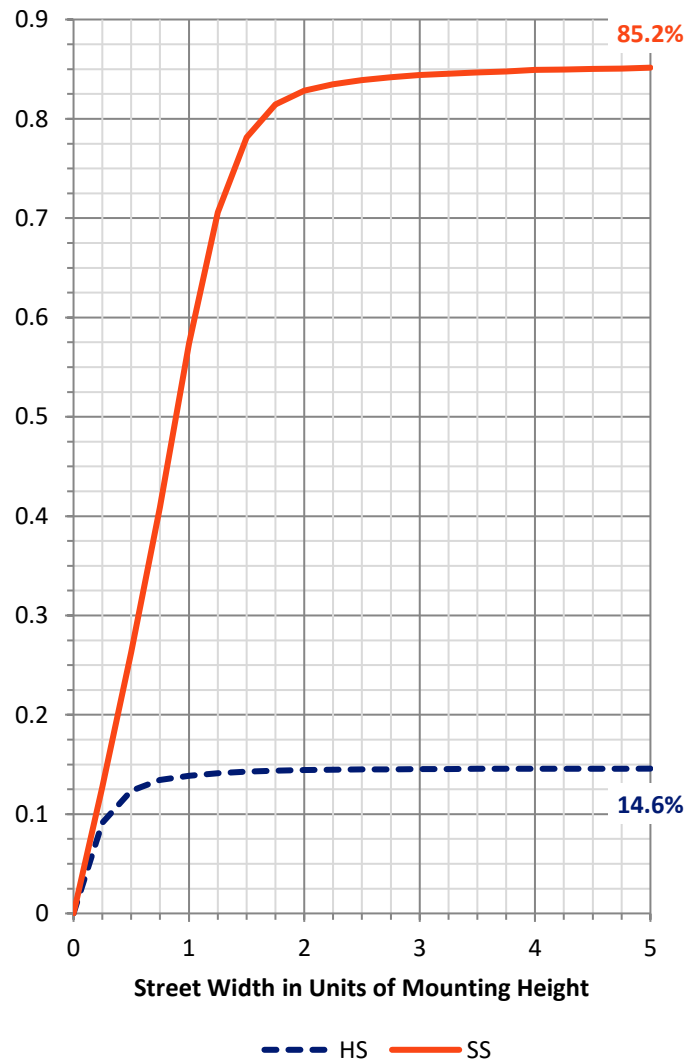
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.1	0.0	1860.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10794.5	0.0	10794.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	12654.6	0.0	12654.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.2
10°-20°	408.3	3.2
20°-30°	710.9	5.6
30°-40°	1281.4	10.1
40°-50°	2541.4	20.1
50°-60°	3461.9	27.4
60°-70°	2763.2	21.8
70°-80°	1250.4	9.9
80°-90°	89.9	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°	12654.6	100.0
0°-180°	12654.6	100.0

Coefficient of Utilization



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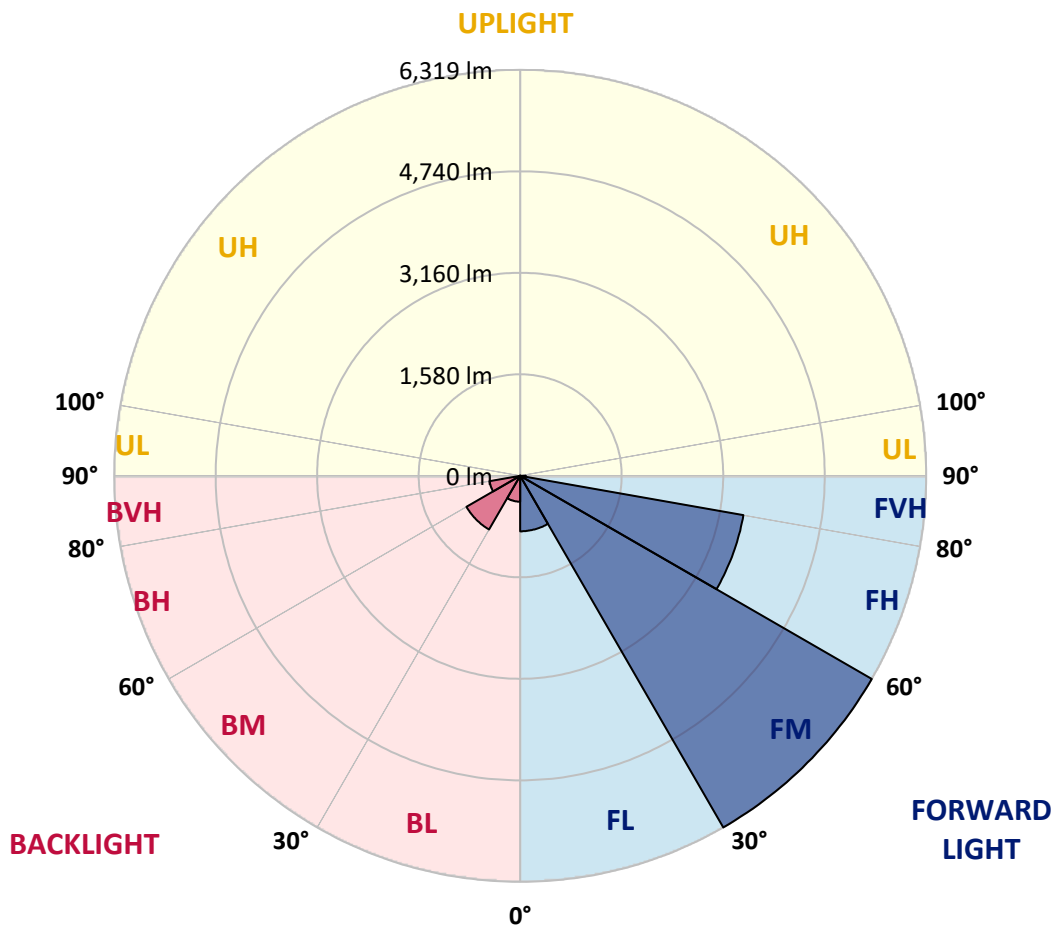
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.8	6.8			
FM	(30°-60°)	6319.4	49.9			
FH	(60°-80°)	3528.1	27.9			G2/5000
FVH	(80°-90°)	83.2	0.7			G1/100
BL	(0°-30°)	402.6	3.2	B1/500		
BM	(30°-60°)	965.3	7.6	B1/1000		
BH	(60°-80°)	485.6	3.8	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	63°	65°	75°	85°
0°	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8
2.5°	1598.4	1594.1	1600.1	1597.6	1595.8	1592.3	1590.6	1588.9	1585.4	1582.7	1572.2
5°	1602.7	1600.1	1606.2	1611.4	1616.6	1621.9	1624.5	1628.0	1624.5	1617.6	1607.1
7.5°	1566.2	1564.5	1577.5	1593.2	1616.6	1636.7	1658.4	1670.6	1671.5	1668.9	1657.6
10°	1563.5	1559.2	1572.2	1591.4	1621.9	1657.6	1695.9	1722.0	1725.5	1736.8	1724.7
12.5°	1604.4	1600.1	1618.4	1639.3	1670.6	1708.1	1755.1	1791.7	1796.9	1812.5	1803.8
15°	1673.2	1667.2	1688.1	1715.0	1755.1	1797.7	1847.4	1880.5	1884.8	1903.9	1888.3
17.5°	1753.4	1747.2	1771.6	1800.4	1843.9	1902.2	1959.7	1996.3	2001.5	2013.6	1984.9
20°	1856.1	1848.3	1867.4	1893.5	1939.6	2009.3	2078.1	2130.4	2129.4	2129.4	2082.4
22.5°	1975.4	1963.2	1979.7	2000.6	2044.2	2128.6	2219.9	2281.8	2281.8	2257.5	2180.0
25°	2103.3	2091.1	2109.4	2128.6	2166.8	2262.7	2369.7	2446.4	2449.9	2408.0	2284.4
27.5°	2263.5	2247.8	2261.8	2284.4	2307.1	2404.5	2531.6	2620.4	2622.2	2557.8	2383.6
30°	2571.7	2527.3	2483.8	2459.4	2469.8	2566.5	2702.3	2800.7	2809.3	2720.6	2491.6
32.5°	3135.9	3127.2	2973.9	2773.6	2669.2	2740.5	2893.0	3011.3	3016.6	2902.5	2631.8
35°	4012.5	4002.1	3755.7	3374.4	3034.0	2973.9	3124.5	3264.7	3261.2	3132.4	2813.7
37.5°	5059.0	5049.4	4724.6	4214.5	3663.5	3326.5	3423.1	3570.3	3592.0	3423.1	3048.8
40°	5953.0	5917.3	5711.9	5220.0	4499.1	3911.5	3848.0	3945.4	3968.1	3767.9	3347.3
42.5°	6630.3	6599.9	6495.4	6188.1	5510.8	4776.9	4348.6	4386.0	4411.2	4170.9	3690.4
45°	6981.2	6974.2	7016.0	6987.3	6541.5	5839.0	5064.2	4908.3	4918.0	4617.5	4079.5
47.5°	7030.8	7027.3	7217.9	7487.8	7427.8	7036.9	5982.6	5559.5	5525.6	5121.6	4502.6
50°	6738.4	6731.4	7097.0	7602.8	8019.8	8043.3	7025.6	6293.4	6218.6	5643.1	4944.0
52.5°	5804.2	5802.4	6403.2	7245.0	8227.9	8924.4	8056.4	7099.6	6974.2	6195.1	5410.7
55°	4466.1	4498.3	5186.9	6182.0	7848.3	9348.3	8981.8	7994.6	7802.2	6750.4	5840.8
57.5°	3163.7	3210.7	3891.5	4777.7	6671.3	9097.6	9607.7	8891.3	8684.0	7304.2	6276.9
60°	1699.3	1741.2	2422.8	3480.6	4963.2	8162.6	9937.7	9669.5	9473.7	7830.0	6670.4
62.5°	1012.5	1026.4	1308.5	2247.0	3357.0	6236.0	9797.6	10262.4	10101.4	8271.4	7012.5
65°	726.9	729.6	871.5	1372.1	2038.0	3788.8	8814.6	10546.2	10496.6	8604.0	7265.9
67.5°	612.0	610.3	669.4	911.5	1388.6	1897.9	6755.7	10144.8	10355.6	8814.6	7409.5
70°	525.0	527.6	597.3	667.7	1043.9	1074.3	3358.7	8832.9	9282.1	8870.3	7400.8
72.5°	390.9	399.6	464.0	608.5	787.9	739.1	1159.6	6549.3	7361.7	8357.5	7016.8
75°	275.9	280.3	326.5	511.9	587.6	538.0	592.0	3385.7	4426.9	6407.5	5743.2
77.5°	212.4	220.3	247.2	357.8	578.9	377.8	362.1	1171.8	1800.4	3870.6	3937.6
80°	114.9	128.8	178.5	258.6	406.5	267.2	179.4	466.7	610.3	1809.9	1518.3
82.5°	59.2	66.2	124.5	186.3	231.5	233.3	88.8	194.1	251.6	558.9	208.1
85°	23.5	28.7	83.5	102.7	119.3	114.9	40.1	78.3	90.5	155.0	63.6
87.5°	5.2	8.7	30.4	23.5	22.7	24.4	9.5	18.2	17.4	18.2	11.3
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°	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8
2.5°	1571.4	1567.9	1558.3	1547.9	1535.7	1528.8	1524.4	1523.6	1517.4	1513.1	1517.4
5°	1597.6	1594.1	1575.7	1554.0	1530.5	1512.2	1494.8	1479.1	1456.5	1452.1	1450.4
7.5°	1649.7	1640.2	1610.6	1581.0	1536.6	1483.5	1419.0	1345.0	1278.9	1258.9	1249.3
10°	1714.2	1701.1	1663.7	1611.4	1513.1	1368.6	1212.7	1068.2	953.2	921.1	908.9
12.5°	1787.3	1776.0	1726.4	1629.7	1414.7	1152.6	914.1	734.7	623.3	595.5	587.6
15°	1874.3	1857.8	1789.0	1601.9	1238.8	875.8	627.7	521.5	481.4	476.2	471.0
17.5°	1966.7	1939.6	1844.8	1501.7	1002.0	622.5	484.9	454.5	437.1	431.8	429.2
20°	2051.1	2016.3	1877.8	1350.2	748.7	484.9	434.4	414.4	398.7	392.7	389.2
22.5°	2135.5	2085.9	1877.8	1143.9	561.5	430.1	398.7	380.5	362.1	354.3	349.9
25°	2223.4	2157.3	1844.8	914.1	451.8	394.4	364.8	344.7	329.1	319.5	316.0
27.5°	2308.8	2217.4	1769.0	696.5	402.2	363.1	333.4	314.3	299.5	292.5	292.5
30°	2389.8	2276.5	1662.9	528.5	370.0	332.6	304.7	288.1	273.4	266.4	267.2
32.5°	2499.5	2351.5	1549.6	433.6	342.1	303.8	278.6	262.9	249.9	244.7	244.7
35°	2651.8	2462.0	1452.1	425.7	318.7	280.3	255.1	240.3	227.2	222.8	222.8
37.5°	2867.7	2640.5	1400.8	478.0	299.5	259.4	236.0	220.3	208.1	204.6	203.7
40°	3134.1	2882.5	1428.6	530.2	286.4	241.2	218.5	202.8	192.4	188.1	187.2
42.5°	3450.2	3181.1	1582.7	570.2	277.7	225.5	201.9	184.6	177.6	175.9	175.9
45°	3813.1	3509.3	1818.7	612.8	263.8	210.6	185.4	172.4	167.2	166.3	165.4
47.5°	4225.8	3869.8	2092.0	666.0	249.9	196.8	172.4	163.7	159.3	157.5	157.5
50°	4634.9	4232.7	2373.2	695.6	238.5	183.7	162.0	155.0	151.5	150.6	150.6
52.5°	5063.3	4606.2	2600.4	667.7	229.0	173.2	153.2	148.0	144.5	143.6	143.6
55°	5471.6	4908.3	2639.6	566.7	209.8	162.8	143.6	141.0	136.6	136.6	135.8
57.5°	5823.3	5059.8	2362.7	416.2	190.6	147.1	134.1	131.5	128.0	127.1	126.3
60°	6146.3	5016.2	1823.9	280.3	169.7	131.5	121.9	120.1	116.6	112.3	111.4
62.5°	6328.2	4824.8	1247.5	182.9	148.8	114.9	107.9	107.1	99.2	90.5	88.8
65°	6397.0	4431.3	778.3	133.2	124.5	98.4	93.2	91.4	80.1	70.5	69.6
67.5°	6337.0	3783.6	392.7	105.4	98.4	81.8	76.6	76.6	68.8	60.1	59.2
70°	6096.7	2836.4	165.4	84.5	75.7	62.7	62.7	66.2	58.3	48.8	47.9
72.5°	5575.2	1908.3	87.9	64.5	56.6	44.4	51.4	54.0	46.1	36.6	36.6
75°	4432.1	1164.0	61.0	47.9	35.7	31.4	39.2	40.9	31.4	24.4	23.5
77.5°	3031.3	668.6	40.9	30.4	22.7	18.2	27.0	25.2	16.5	11.3	12.2
80°	1331.2	278.6	23.5	13.9	8.7	7.0	9.5	7.0	5.2	3.5	3.5
82.5°	155.8	65.3	8.7	5.2	3.5	1.7	0.8	0.0	0.0	0.0	0.0
85°	32.2	7.8	4.3	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	1.7	0.8	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)