

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: P967347

Luminaire Tested: **NVN-SB4D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37334.6 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

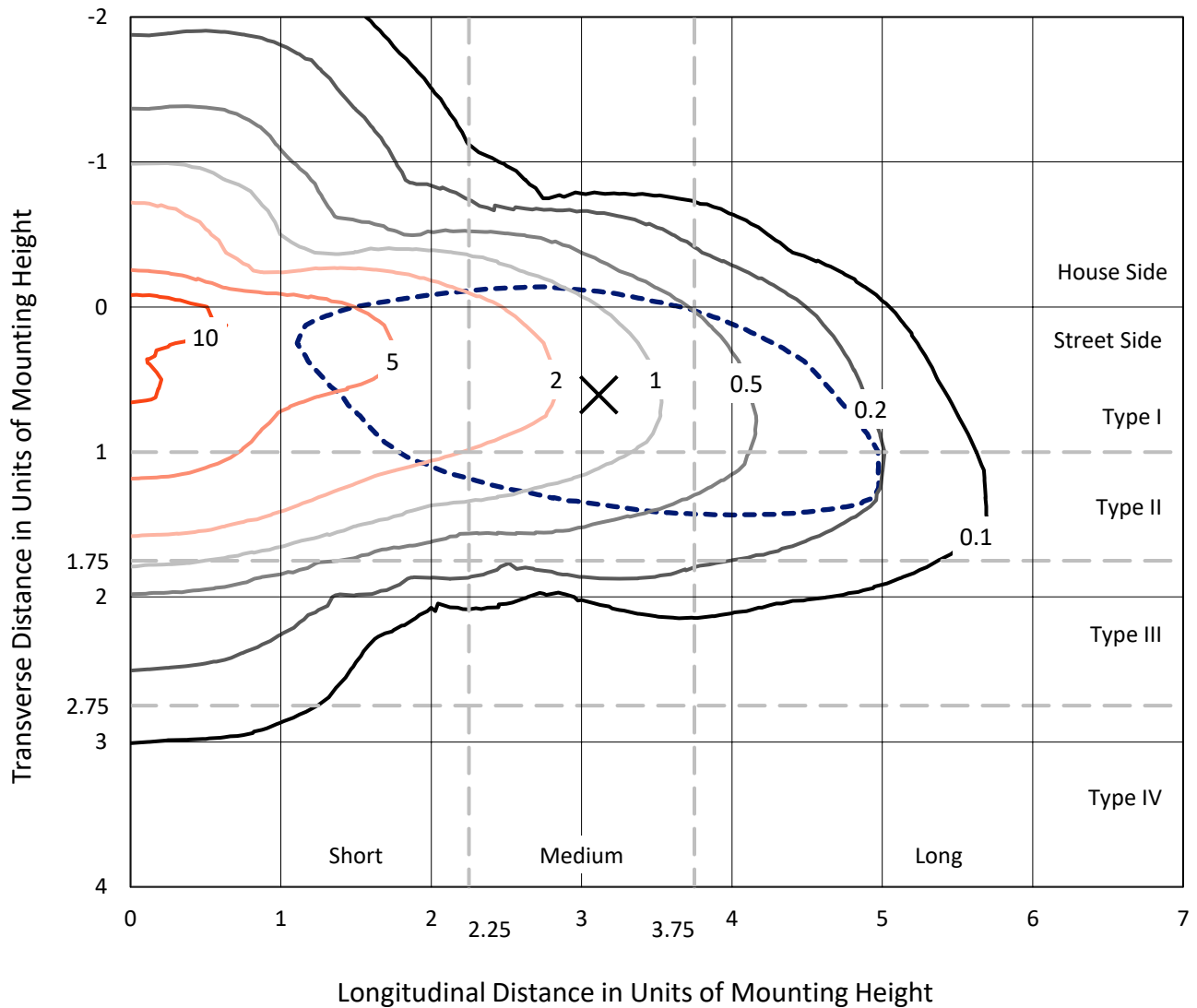
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

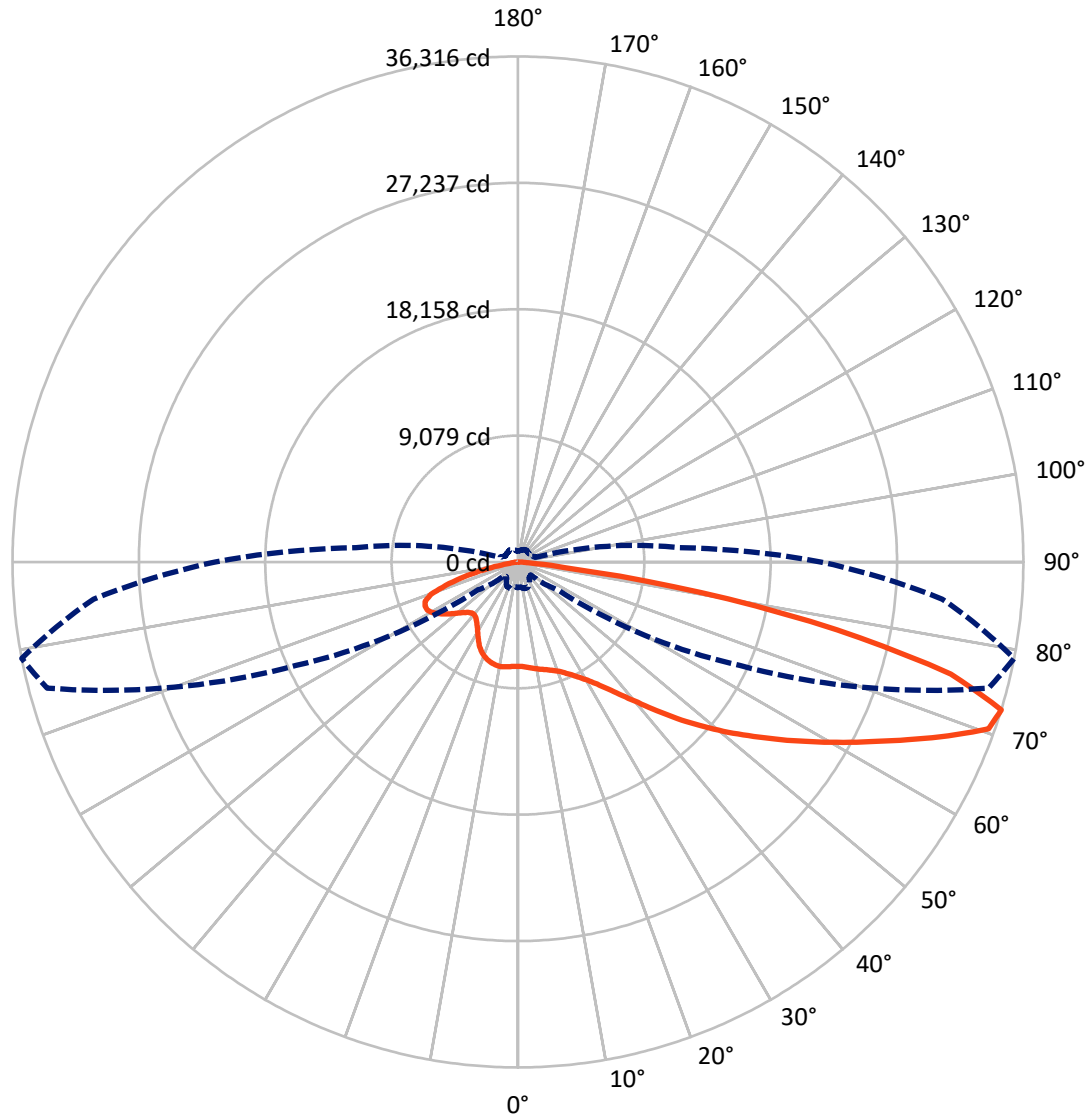
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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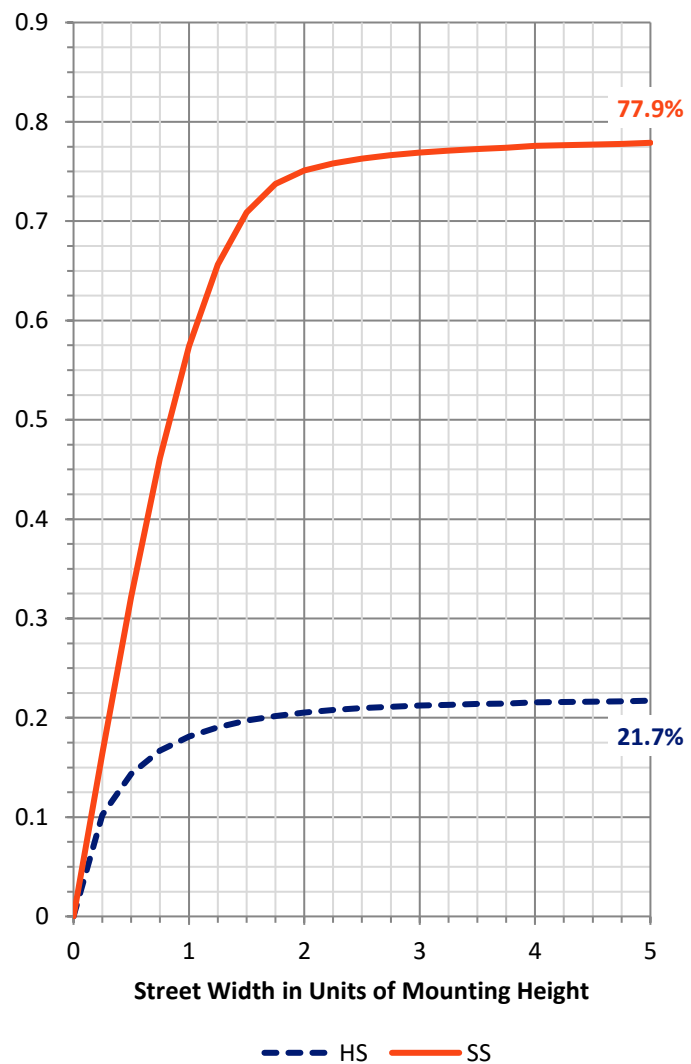
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8215.7	0.0	8215.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29118.9	0.0	29118.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	37334.6	0.0	37334.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.3	1.8
10°-20°	1778.6	4.8
20°-30°	2870.0	7.7
30°-40°	4307.4	11.5
40°-50°	6110.3	16.4
50°-60°	7716.5	20.7
60°-70°	7837.1	21.0
70°-80°	5341.4	14.3
80°-90°	693.0	1.9
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°	37334.6	100.0
0°-180°	37334.6	100.0

Coefficient of Utilization



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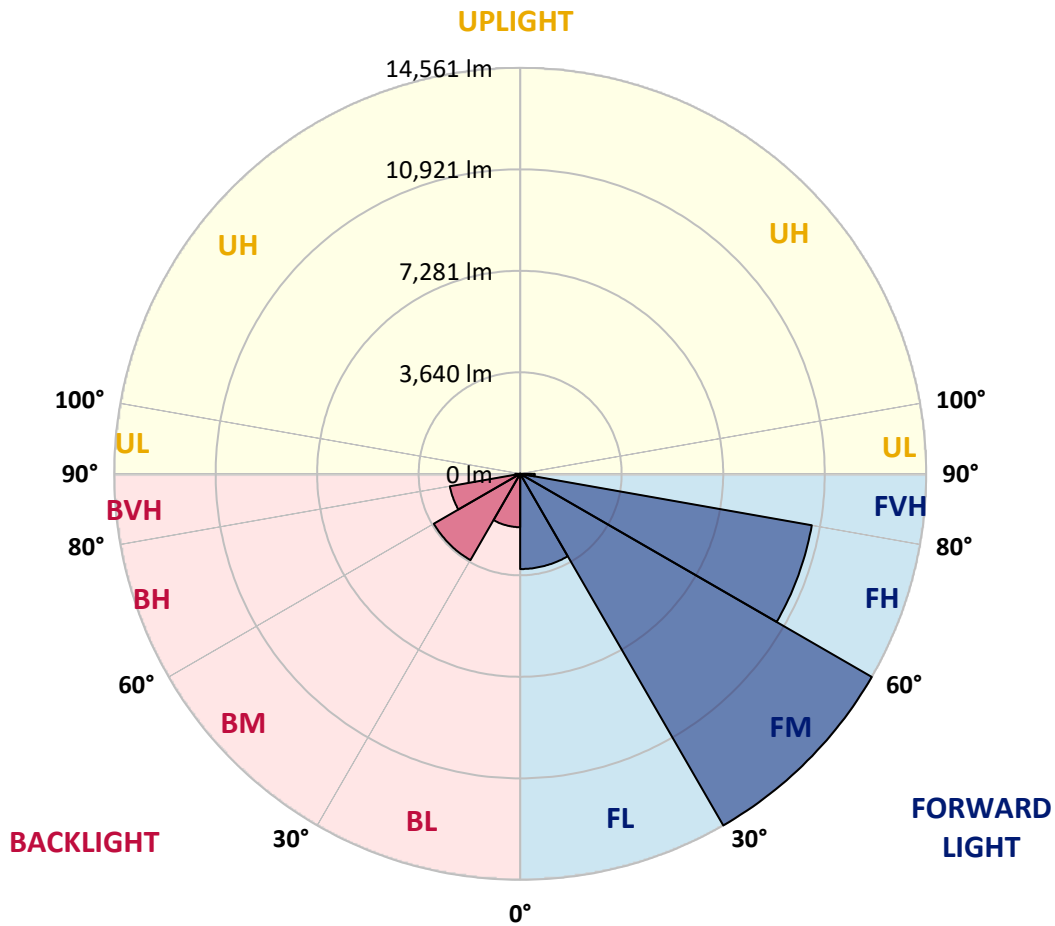
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.2	9.1			
FM (30°-60°)	14561.3	39.0			
FH (60°-80°)	10620.4	28.4			G4/12000
FVH (80°-90°)	522.0	1.4			G4/750
BL (0°-30°)	1913.7	5.1	B3/2500		
BM (30°-60°)	3572.9	9.6	B3/5000		
BH (60°-80°)	2558.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	171.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6
2.5°	7498.5	7462.9	7484.7	7476.8	7486.7	7498.5	7502.5	7508.4	7528.1	7526.2	7524.2
5°	7482.7	7447.1	7476.8	7466.9	7492.5	7520.2	7543.9	7565.6	7597.3	7611.0	7591.4
7.5°	7449.2	7425.4	7455.0	7484.7	7532.1	7573.5	7607.1	7656.5	7702.0	7709.8	7723.7
10°	7253.6	7235.9	7305.0	7382.0	7512.3	7624.9	7698.0	7755.3	7804.7	7812.6	7832.2
12.5°	7050.3	7028.5	7105.5	7210.2	7421.5	7624.9	7778.9	7854.0	7897.4	7923.1	7952.8
15°	7016.6	6998.9	7042.4	7133.2	7309.0	7571.6	7834.3	7972.4	8010.0	8039.6	8051.5
17.5°	7178.6	7145.0	7162.8	7194.4	7297.1	7522.2	7877.6	8106.7	8164.0	8195.6	8195.6
20°	7553.8	7506.4	7478.8	7415.6	7397.8	7530.2	7873.7	8268.7	8343.7	8383.3	8393.1
22.5°	8053.4	8021.9	7962.6	7802.6	7628.9	7626.9	7948.8	8476.0	8616.3	8653.8	8630.1
25°	8657.8	8610.3	8535.3	8318.1	7984.3	7818.4	8075.2	8740.7	8975.7	8985.6	8916.5
27.5°	9352.9	9281.8	9179.1	8892.8	8442.5	8118.6	8268.7	9044.8	9388.5	9384.5	9242.3
30°	10085.6	10014.5	9905.9	9558.3	8991.5	8523.5	8537.3	9372.6	9878.2	9856.5	9613.6
32.5°	10620.7	10567.4	10545.7	10277.2	9623.4	9001.3	8845.3	9736.1	10482.5	10462.8	10123.1
35°	11031.6	10962.4	10988.1	10851.8	10312.7	9536.6	9222.5	10168.5	11217.2	11215.1	10792.5
37.5°	11438.4	11377.1	11398.8	11308.0	10950.6	10215.9	9682.7	10697.8	12127.6	12171.1	11602.3
40°	11809.6	11744.4	11831.4	11746.4	11446.3	10938.7	10206.0	11296.1	13182.1	13265.0	12581.8
42.5°	12032.8	11981.4	12125.5	12127.6	11876.8	11549.0	10780.7	11955.8	14402.6	14588.2	13786.5
45°	12109.8	12092.0	12309.2	12354.6	12257.9	11902.4	11298.2	12674.6	15717.9	16049.7	15158.9
47.5°	12026.8	11993.3	12293.4	12461.3	12538.3	12068.3	11726.7	13452.7	17060.7	17546.6	16655.9
50°	11608.2	11543.0	11989.3	12342.8	12617.3	12176.9	12159.2	14351.2	18587.4	19118.5	18160.7
52.5°	10855.8	10806.4	11313.9	11928.1	12443.5	12230.3	12645.0	15332.8	20036.9	20724.1	19703.1
55°	9894.0	9828.8	10387.8	11189.5	12011.1	12212.5	13130.8	16430.8	21747.1	22444.2	21296.8
57.5°	8369.4	8239.1	8946.1	9894.0	11306.1	12190.7	13636.4	17522.9	23484.9	24320.3	22997.2
60°	6145.7	5952.2	6819.1	7942.8	9927.5	11979.5	14262.4	18747.2	25570.4	26322.8	24853.5
62.5°	3578.5	3465.8	4032.7	5081.3	7482.7	10735.3	14613.9	20171.2	27620.3	28410.2	26678.3
65°	2778.6	2747.0	2796.4	2877.4	4165.0	8037.6	13529.7	21559.4	30227.0	30780.0	28580.1
67.5°	2541.6	2517.9	2539.6	2387.6	2113.1	4477.0	10703.7	21911.0	33019.6	33355.2	30244.9
70°	2259.2	2231.6	2302.7	2172.4	1662.9	2036.1	6916.0	20635.2	35241.2	35871.2	31510.8
72.5°	1840.6	1808.9	1974.9	1915.6	1400.1	1307.4	3473.7	17603.9	35008.3	36315.5	30604.2
75°	1414.0	1396.3	1593.7	1643.1	1141.4	1028.9	1666.8	13085.4	30807.7	32124.9	26376.1
77.5°	1098.0	1084.2	1184.9	1364.6	920.2	797.9	1024.9	8300.3	23216.4	23447.4	18176.5
80°	823.5	784.0	876.8	1056.6	716.9	582.6	695.2	4840.4	14675.1	13302.7	7911.3
82.5°	515.5	495.7	572.7	705.0	505.5	400.9	452.2	2673.9	5881.1	3463.9	1526.5
85°	294.3	286.4	312.0	402.8	274.5	231.0	258.7	1181.0	1074.3	738.6	460.1
87.5°	118.5	114.5	142.2	179.7	100.8	84.9	90.8	284.3	237.0	219.2	152.1
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°	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6	7494.6
2.5°	7516.3	7516.3	7488.6	7445.2	7395.8	7364.2	7312.9	7299.0	7245.7	7229.9	7255.6
5°	7607.1	7591.4	7506.4	7384.0	7216.1	7062.0	6892.2	6785.6	6635.5	6582.1	6621.7
7.5°	7721.6	7678.3	7532.1	7263.5	6912.0	6566.4	6207.0	5934.4	5673.8	5580.9	5592.8
10°	7826.4	7765.1	7516.3	7046.3	6438.0	5839.6	5267.0	4866.1	4561.9	4437.5	4465.1
12.5°	7931.0	7818.4	7411.7	6684.8	5764.6	4952.9	4342.7	4030.7	3843.0	3693.0	3742.4
15°	8029.7	7871.8	7249.7	6201.0	5026.0	4202.5	3752.2	3503.3	3353.3	3254.6	3272.3
17.5°	8144.3	7917.2	7006.8	5586.9	4322.9	3683.1	3315.8	3165.7	3136.1	3124.2	3132.1
20°	8304.2	7958.6	6686.9	4899.6	3805.5	3268.4	3078.8	3065.0	3063.0	3057.1	3076.8
22.5°	8476.0	8008.0	6264.2	4275.6	3365.2	3009.7	2976.1	2948.4	2930.7	2928.7	2950.5
25°	8679.5	8023.8	5735.0	3764.1	2989.9	2887.2	2847.8	2806.2	2794.5	2794.5	2806.2
27.5°	8877.0	7970.5	5118.8	3319.8	2778.6	2774.7	2723.3	2709.5	2707.5	2713.5	2729.3
30°	9074.4	7869.7	4506.6	2909.0	2656.2	2656.2	2638.5	2648.3	2656.2	2676.0	2689.7
32.5°	9341.0	7763.1	3995.1	2604.8	2549.6	2529.8	2547.5	2567.3	2575.2	2600.8	2622.6
35°	9732.1	7688.1	3588.3	2439.0	2439.0	2413.3	2423.1	2419.2	2401.4	2389.6	2417.3
37.5°	10249.5	7684.1	3252.6	2361.9	2346.1	2342.1	2344.2	2318.4	2249.4	2166.4	2168.4
40°	10871.6	7790.8	2993.9	2308.6	2296.7	2320.5	2308.6	2239.5	2049.9	1905.8	1901.8
42.5°	11706.9	8094.9	2828.0	2243.4	2279.0	2308.6	2261.3	2022.2	1893.9	1797.1	1793.1
45°	12690.4	8588.7	2743.1	2174.3	2245.4	2280.9	2051.8	1947.2	1844.5	1727.9	1720.1
47.5°	13804.2	9210.8	2723.3	2109.1	2170.3	2192.1	1963.0	1915.6	1799.1	1672.7	1662.9
50°	15016.8	9947.3	2776.6	2032.2	2061.8	1986.7	1933.4	1889.9	1769.5	1645.0	1631.2
52.5°	16270.8	10759.0	2883.3	1927.4	1953.1	1870.2	1921.6	1884.1	1751.7	1583.8	1571.9
55°	17503.1	11576.6	2985.9	1805.0	1842.5	1765.6	1887.9	1860.3	1670.7	1481.1	1471.3
57.5°	18755.1	12390.2	3086.7	1696.4	1735.9	1664.8	1834.6	1797.1	1579.8	1386.3	1382.4
60°	20056.6	13180.2	3134.0	1591.7	1619.4	1571.9	1753.7	1688.5	1477.2	1289.6	1283.6
62.5°	21275.1	13837.8	3057.1	1487.1	1504.8	1485.1	1647.1	1560.2	1374.5	1181.0	1179.0
65°	22497.5	14228.8	2820.1	1384.4	1388.4	1378.4	1496.9	1421.9	1254.0	1086.2	1074.3
67.5°	23605.4	14448.0	2442.9	1273.8	1263.9	1259.9	1356.7	1271.8	1137.5	991.4	979.5
70°	23840.4	13891.1	1866.2	1143.5	1143.5	1133.5	1202.7	1115.8	1009.1	890.6	886.7
72.5°	21774.7	11685.2	1325.1	995.3	1011.2	991.4	1048.7	975.6	878.8	799.8	776.1
75°	17558.5	8568.9	963.7	843.3	870.9	837.3	890.6	839.3	756.3	754.4	679.4
77.5°	12064.4	5298.5	699.0	695.2	714.9	671.5	732.7	705.0	630.0	596.4	558.9
80°	5148.5	2113.1	509.5	537.2	537.2	497.6	568.8	576.7	511.5	495.7	495.7
82.5°	1024.9	600.3	357.4	369.3	347.6	335.7	402.8	446.3	616.1	685.3	687.3
85°	308.1	221.2	215.2	201.4	177.7	179.7	237.0	448.3	553.0	316.0	272.5
87.5°	84.9	55.2	57.3	45.4	37.5	49.4	81.0	339.7	185.6	79.0	67.1
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)