

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: P969948

Luminaire Tested: **NVN-SB6A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24658.4 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

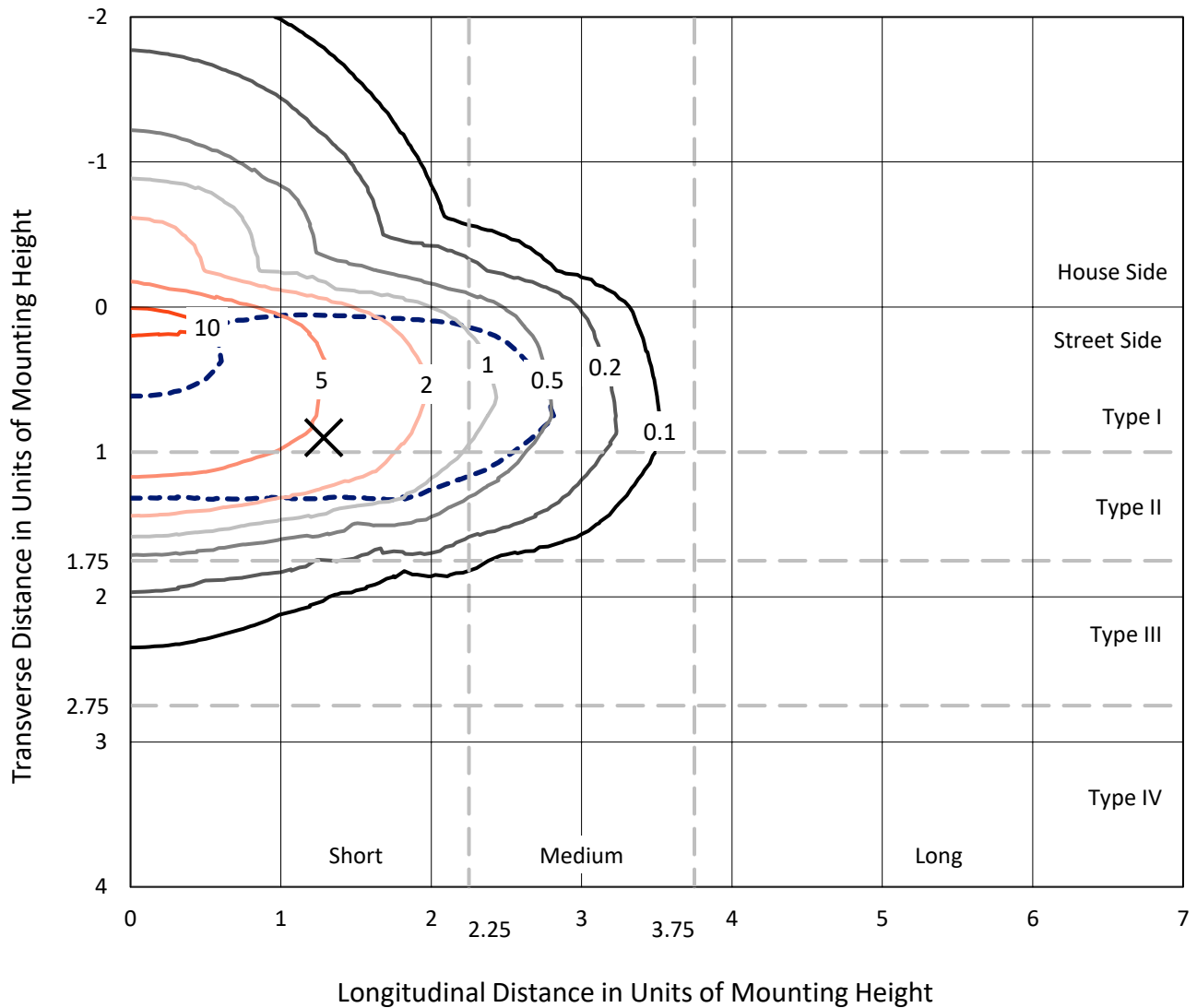
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

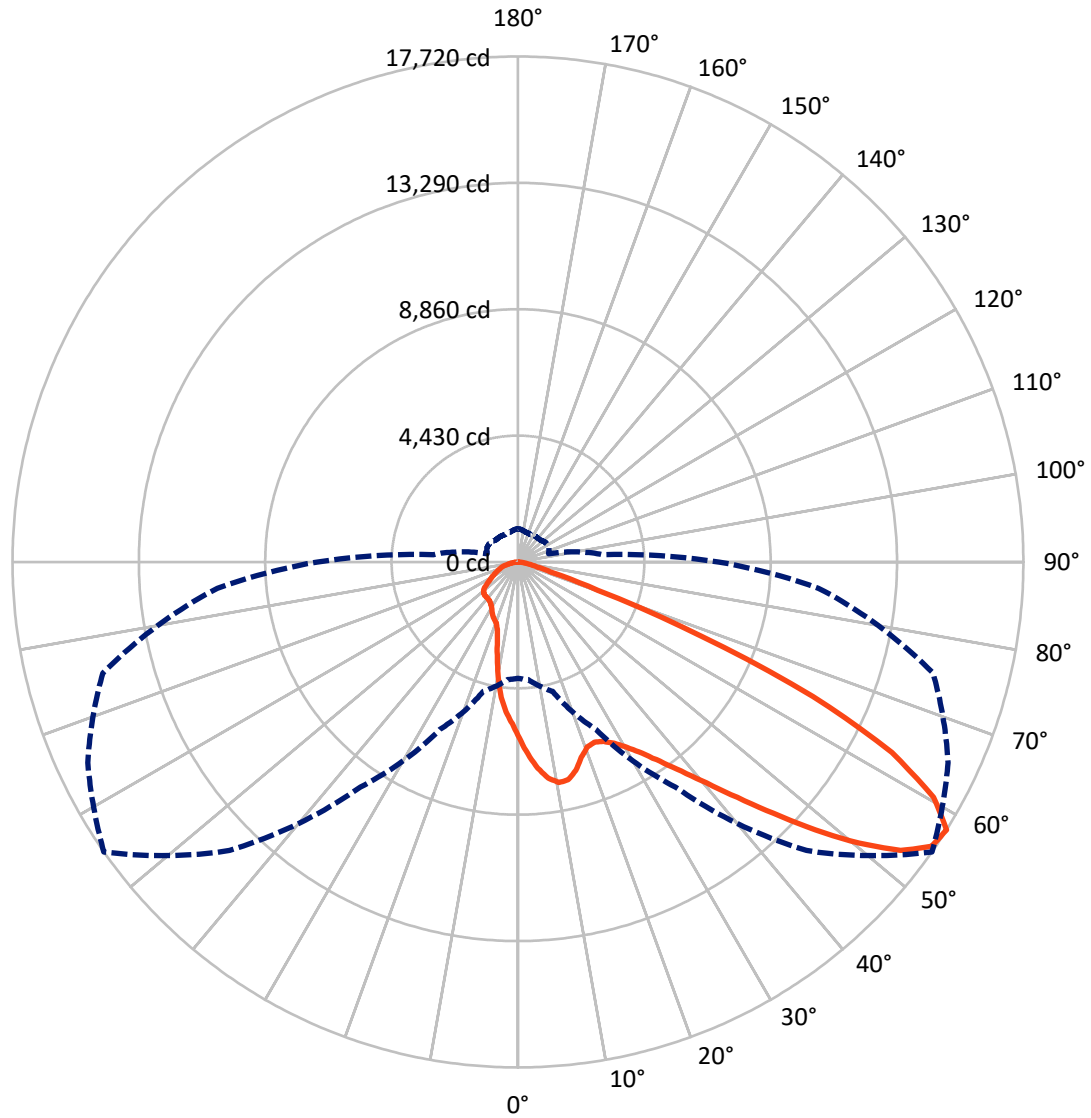
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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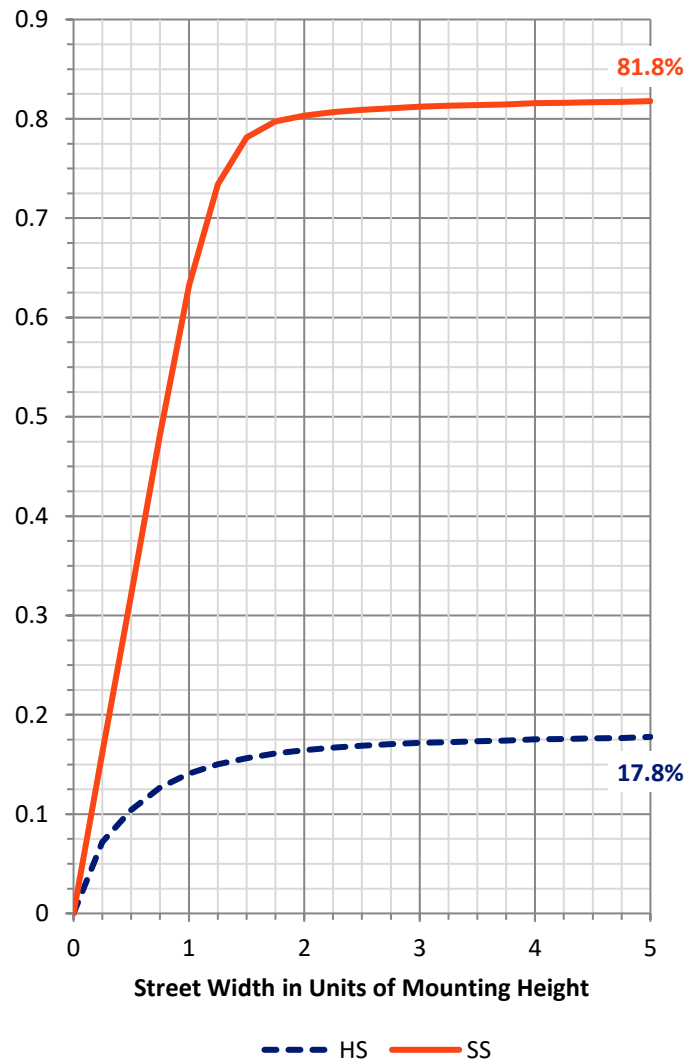
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4461.8	0.0	4461.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20196.6	0.0	20196.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	24658.4	0.0	24658.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.3	2.3
10°-20°	1447.1	5.9
20°-30°	2309.2	9.4
30°-40°	3656.0	14.8
40°-50°	5596.0	22.7
50°-60°	5993.8	24.3
60°-70°	3770.7	15.3
70°-80°	1115.1	4.5
80°-90°	197.2	0.8
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°	24658.4	100.0
0°-180°	24658.4	100.0



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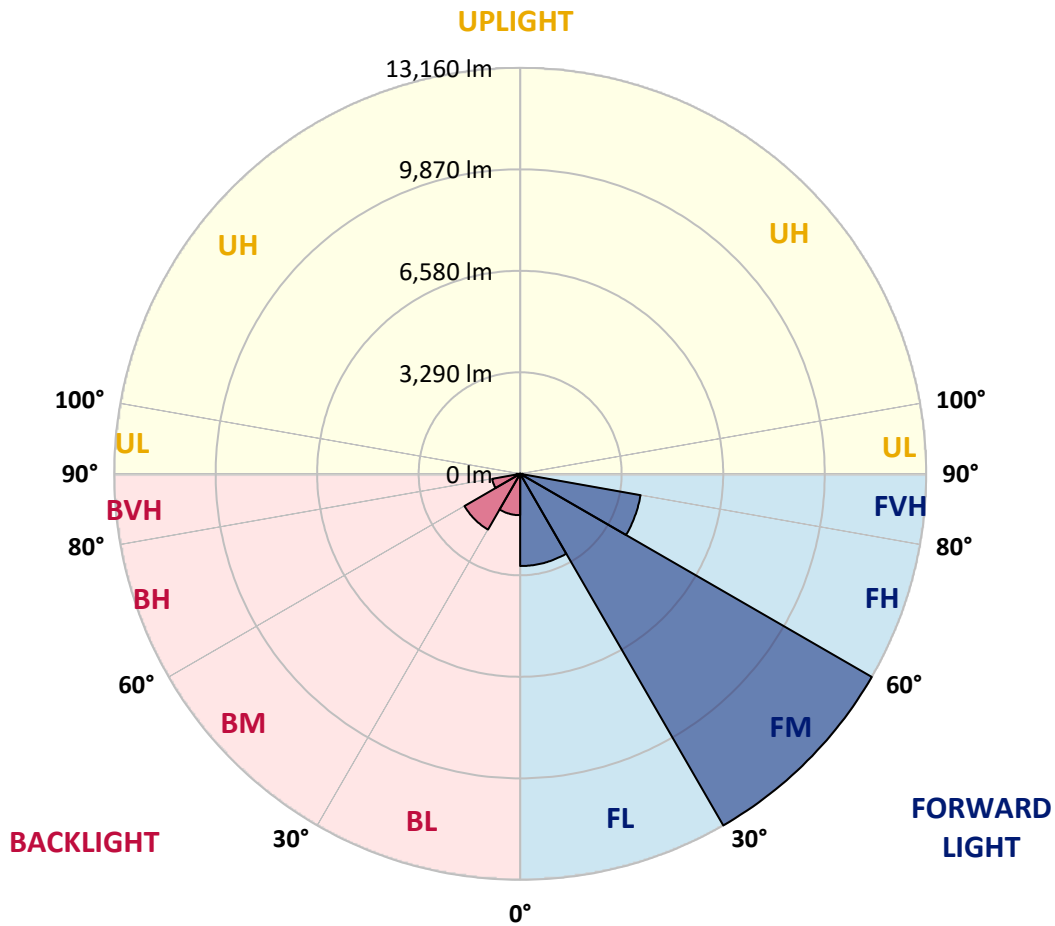
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.6	12.1			
FM (30°-60°)	13160.4	53.4			
FH (60°-80°)	3964.3	16.1			G2/5000
FVH (80°-90°)	83.3	0.3			G1/100
BL (0°-30°)	1341.1	5.4	B3/2500		
BM (30°-60°)	2085.4	8.5	B2/2500		
BH (60°-80°)	921.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	113.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6
2.5°	7088.8	7083.7	7111.7	7016.1	6951.0	6863.1	6747.2	6599.3	6439.9	6271.7	6199.0
5°	7727.4	7682.8	7712.1	7640.8	7569.3	7436.8	7264.7	7023.7	6729.3	6394.1	6215.6
7.5°	7626.7	7596.1	7671.3	7735.1	7788.6	7772.0	7645.8	7393.4	7013.6	6526.6	6267.9
10°	6814.7	6780.3	6886.1	7106.6	7430.4	7712.1	7865.0	7708.3	7304.2	6671.9	6318.8
12.5°	6098.3	6081.7	6151.8	6330.3	6689.8	7230.2	7837.0	7983.6	7606.3	6844.0	6387.7
15°	5792.4	5772.0	5816.6	5907.1	6136.6	6640.1	7582.0	8172.2	7903.3	7042.9	6497.3
17.5°	5724.8	5701.9	5720.9	5768.2	5916.0	6299.6	7197.1	8265.3	8213.0	7264.7	6589.1
20°	5849.7	5830.6	5833.2	5830.6	5933.8	6238.6	6929.4	8229.6	8483.3	7468.7	6678.3
22.5°	6151.8	6120.0	6121.2	6053.6	6109.7	6345.6	6859.3	8134.0	8724.2	7647.1	6745.8
25°	6643.8	6586.5	6598.0	6425.9	6410.6	6585.2	6969.0	8060.1	8963.8	7789.9	6758.6
27.5°	7317.0	7251.9	7217.5	6961.3	6838.9	6925.6	7192.0	8085.6	9190.8	7913.5	6726.8
30°	8158.3	8079.3	8009.1	7645.8	7424.0	7392.1	7538.8	8253.8	9458.5	8043.5	6671.9
32.5°	9189.5	9097.7	8970.3	8488.4	8176.1	8009.1	7987.4	8553.4	9772.0	8209.2	6643.8
35°	10417.1	10297.3	10116.2	9492.9	9097.7	8756.1	8578.9	8985.6	10201.6	8459.1	6675.7
37.5°	11681.6	11546.5	11380.8	10638.9	10153.2	9649.7	9300.4	9572.0	10774.0	8798.2	6759.9
40°	12848.0	12696.3	12542.0	11881.7	11360.4	10753.6	10183.8	10313.9	11473.8	9203.6	6902.7
42.5°	13536.4	13424.1	13365.5	13008.6	12605.8	11990.0	11282.6	11193.4	12260.3	9670.1	7065.8
45°	13505.7	13459.9	13640.8	13788.7	13693.1	13351.4	12570.1	12166.0	13049.4	10074.2	7216.2
47.5°	12784.2	12814.9	13218.9	14050.1	14415.9	14594.4	14036.0	13120.7	13735.2	10376.3	7283.8
50°	10821.1	10846.7	11782.3	13574.6	14601.9	15607.8	15490.5	14052.5	14266.8	10561.1	7268.5
52.5°	9267.2	9283.8	9685.3	12164.7	13987.6	16117.6	16800.9	14930.9	14655.6	10612.1	7183.1
55°	6980.5	7037.8	7487.7	9543.9	12389.1	15713.6	17598.8	15835.9	14901.6	10617.2	7093.8
57.5°	4077.9	4140.3	4696.1	6478.2	9629.3	14305.0	17720.0	16639.0	15068.5	10576.4	7040.3
60°	1997.5	2024.3	2266.5	3404.8	5937.7	11591.1	16746.0	17027.8	15161.6	10554.7	7037.8
62.5°	1346.1	1342.2	1352.5	1680.1	2925.5	7446.9	14716.7	16347.1	15111.9	10471.9	7012.2
65°	1157.4	1143.4	1105.2	1179.2	1515.7	3406.1	11370.5	14315.2	14733.2	10264.1	6837.7
67.5°	1000.7	1001.9	1003.2	980.3	1082.2	1571.7	6948.6	11276.2	13374.4	9280.0	6164.6
70°	828.6	840.1	845.1	845.1	882.1	1031.3	2966.2	7728.7	10549.6	7276.2	4965.1
72.5°	754.6	730.4	733.0	720.3	720.3	785.3	1194.4	4381.3	6646.4	4093.1	3030.0
75°	615.7	631.0	633.6	624.6	595.3	599.1	708.8	1838.1	2844.0	1697.9	1497.8
77.5°	531.6	531.6	536.7	530.3	507.4	448.7	472.9	712.6	967.5	696.0	748.2
80°	427.0	425.8	447.4	460.2	424.5	331.4	302.1	393.9	429.6	306.0	388.8
82.5°	207.8	220.5	307.2	350.5	322.5	239.6	184.8	244.8	229.5	135.1	174.7
85°	121.1	114.7	137.7	195.1	184.8	132.5	89.3	127.5	119.8	68.9	70.1
87.5°	38.2	35.7	28.1	66.3	53.5	37.0	24.2	37.0	33.1	15.3	15.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6	6178.6
2.5°	6108.5	5958.1	5808.9	5672.6	5589.6	5536.1	5482.6	5422.7	5399.7	5365.4
5°	6047.3	5756.7	5497.9	5274.9	5072.1	4912.8	4752.2	4622.1	4563.5	4603.1
7.5°	6011.6	5591.0	5191.9	4782.8	4388.8	4074.1	3800.0	3607.5	3520.8	3542.5
10°	5979.7	5403.6	4795.6	4149.2	3583.3	3193.2	2912.7	2766.2	2711.3	2722.8
12.5°	5950.4	5193.3	4317.5	3467.3	2865.6	2608.1	2527.8	2529.1	2539.2	2546.9
15°	5945.3	4939.6	3783.4	2870.7	2478.0	2461.5	2548.1	2603.0	2632.3	2641.2
17.5°	5937.7	4636.2	3239.1	2464.0	2383.7	2495.9	2576.2	2611.9	2634.9	2636.1
20°	5907.1	4251.2	2736.9	2270.3	2363.3	2460.2	2509.9	2538.0	2557.1	2563.5
22.5°	5812.8	3822.9	2345.5	2183.6	2281.8	2359.5	2418.2	2450.1	2461.5	2469.1
25°	5643.2	3343.7	2075.2	2100.7	2168.3	2266.5	2313.6	2320.0	2316.2	2327.7
27.5°	5421.4	2829.9	1907.0	1988.6	2075.2	2159.4	2184.9	2181.1	2173.4	2186.1
30°	5153.7	2368.5	1799.9	1862.4	1980.9	2057.4	2080.3	2071.4	2056.1	2070.2
32.5°	4870.7	1991.2	1712.0	1774.4	1903.1	1978.4	2001.3	1992.4	1980.9	1992.4
35°	4606.9	1727.2	1630.4	1715.7	1842.0	1915.9	1945.2	1946.5	1946.5	1960.5
37.5°	4364.7	1573.0	1562.8	1678.8	1799.9	1866.2	1908.2	1910.8	1856.0	1859.9
40°	4140.3	1508.0	1532.3	1654.6	1759.1	1822.9	1825.4	1682.6	1582.0	1579.4
42.5°	3956.7	1495.3	1541.2	1652.1	1729.8	1732.4	1552.6	1441.8	1413.7	1414.9
45°	3784.7	1491.5	1561.6	1652.1	1686.4	1496.5	1375.4	1346.1	1348.7	1358.8
47.5°	3592.2	1476.1	1565.4	1629.1	1561.6	1330.9	1295.1	1282.4	1277.3	1279.8
50°	3381.9	1421.4	1516.9	1583.2	1347.4	1259.4	1214.8	1211.0	1217.4	1221.2
52.5°	3160.1	1332.1	1434.1	1500.4	1249.3	1197.0	1147.3	1156.2	1184.2	1193.1
55°	3014.7	1227.5	1324.4	1334.7	1180.4	1138.4	1096.2	1116.6	1168.9	1185.5
57.5°	2976.5	1116.6	1199.6	1188.1	1092.4	1087.3	1061.8	1079.7	1145.9	1170.2
60°	2965.0	1017.2	1077.2	1068.3	1007.1	1031.3	1024.9	1033.8	1056.8	1064.4
62.5°	2875.7	938.2	967.5	954.8	930.6	972.6	987.9	968.8	986.7	995.6
65°	2648.9	874.4	860.5	851.5	861.7	900.0	930.6	892.3	908.9	934.4
67.5°	2274.1	787.8	749.6	759.7	791.6	812.0	851.5	808.2	822.2	865.5
70°	1839.5	678.1	643.7	673.0	703.7	745.7	752.0	722.7	755.9	804.3
72.5°	1301.5	567.2	543.0	602.9	613.2	668.0	653.9	639.9	685.8	702.3
75°	902.5	457.7	443.6	489.5	526.4	573.6	563.4	580.0	676.9	684.5
77.5°	571.0	355.7	346.8	376.1	427.0	479.3	495.9	684.5	1156.2	1202.0
80°	331.4	265.2	254.9	277.9	322.5	370.9	478.1	840.1	762.3	753.4
82.5°	184.8	182.2	169.5	175.9	215.5	267.7	675.6	591.4	480.6	495.9
85°	86.7	107.1	91.7	87.9	121.1	313.5	451.2	337.8	224.4	219.2
87.5°	23.0	20.4	20.4	23.0	50.9	270.3	179.8	144.0	85.4	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)