

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: P969473

Luminaire Tested: **NVN-SB5D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969473
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-SB5D-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48602.4 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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



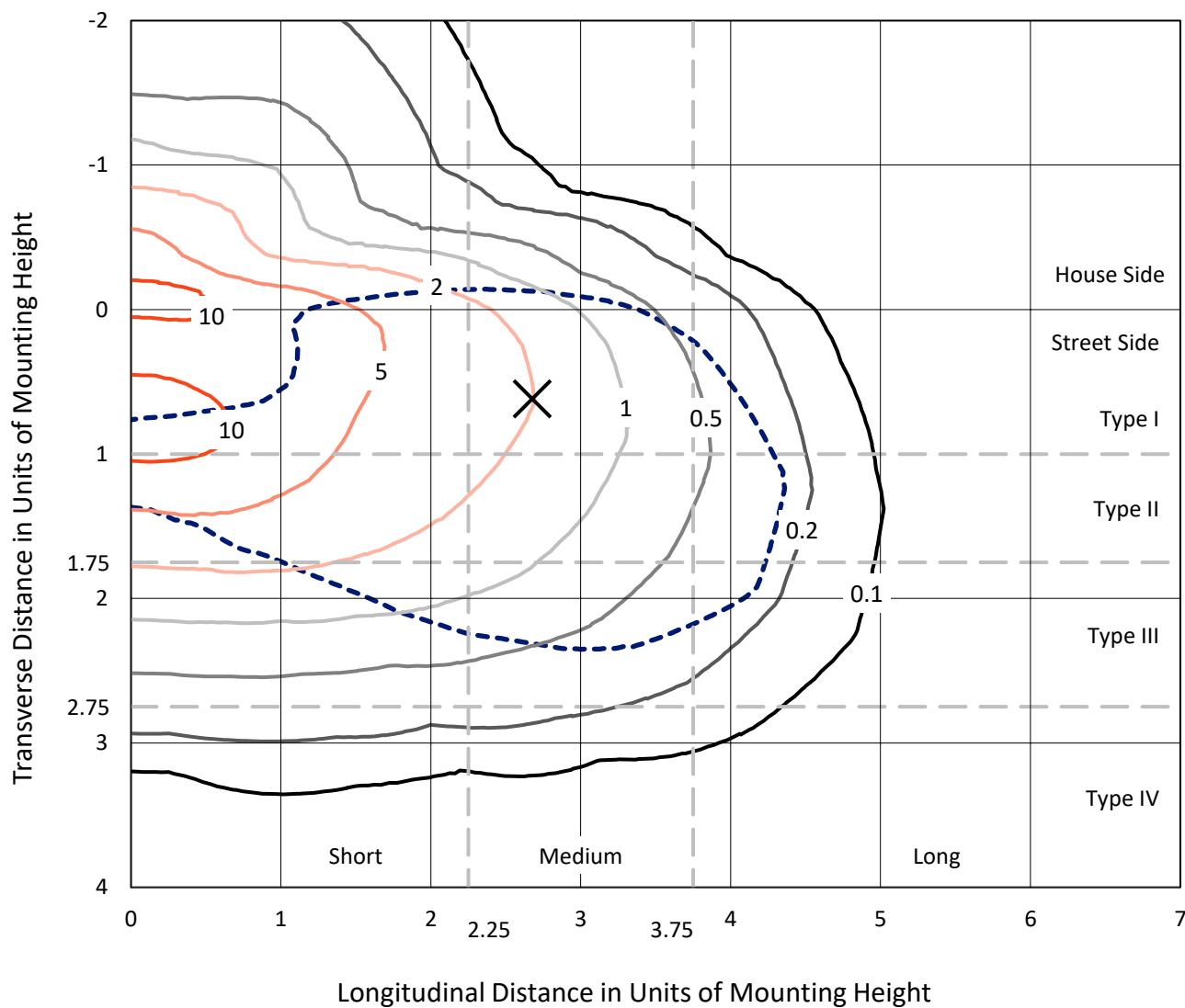
REPORT NUMBER: P969473

CATALOG NUMBER: NVN-SB5D-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

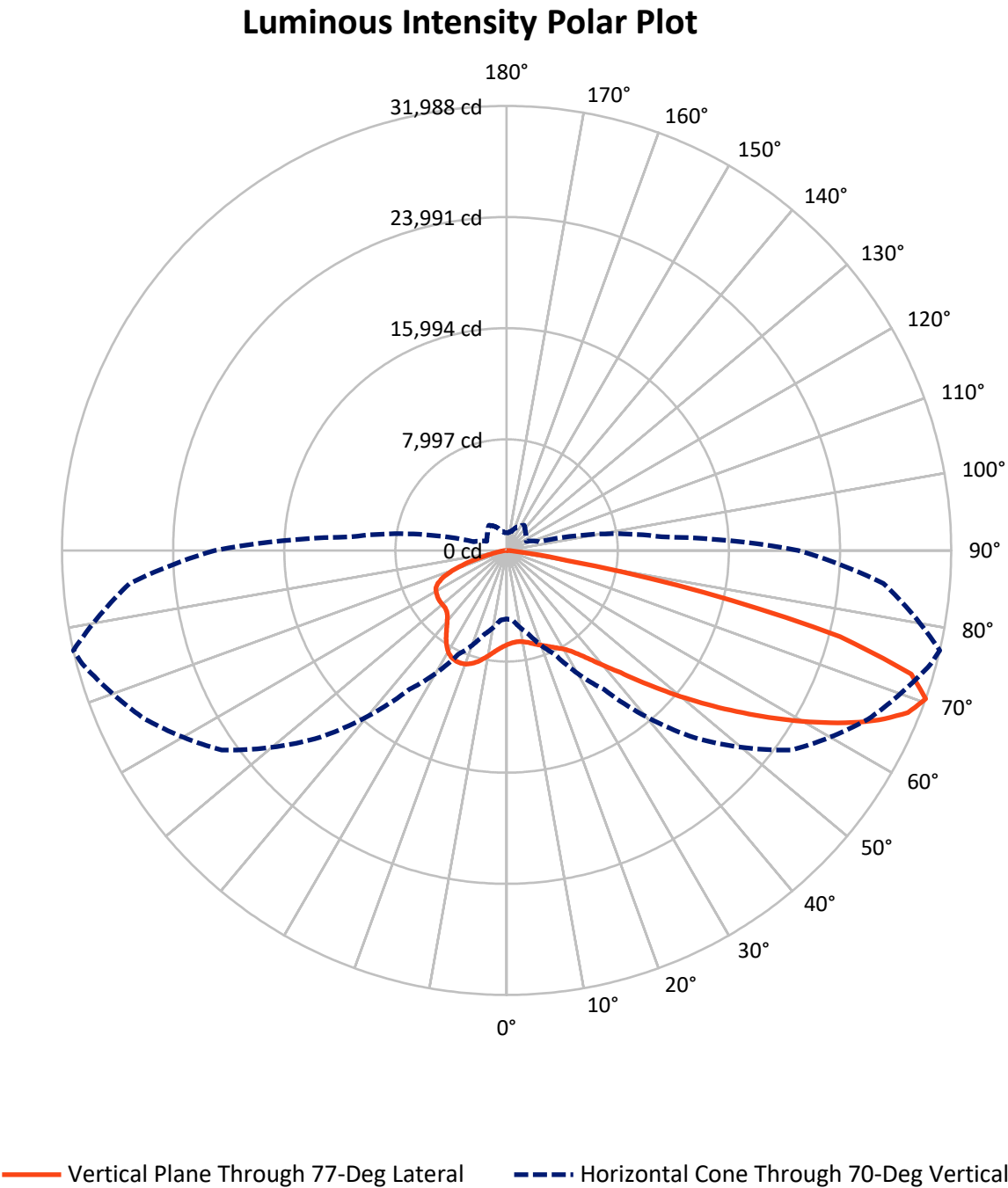
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Medium - N/A

REPORT NUMBER: P969473
CATALOG NUMBER: NVN-SB5D-830-U-T3R



REPORT NUMBER: P969473

CATALOG NUMBER: NVN-SB5D-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10643.2	0.0	10643.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	37959.2	0.0	37959.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	48602.4	0.0	48602.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.7	1.3
10°-20°	1866.4	3.8
20°-30°	3191.8	6.6
30°-40°	5132.7	10.6
40°-50°	8013.4	16.5
50°-60°	10704.0	22.0
60°-70°	11408.9	23.5
70°-80°	7023.2	14.5
80°-90°	615.4	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°	48602.4	100.0
0°-180°	48602.4	100.0

Coefficient of Utilization



REPORT NUMBER: P969473

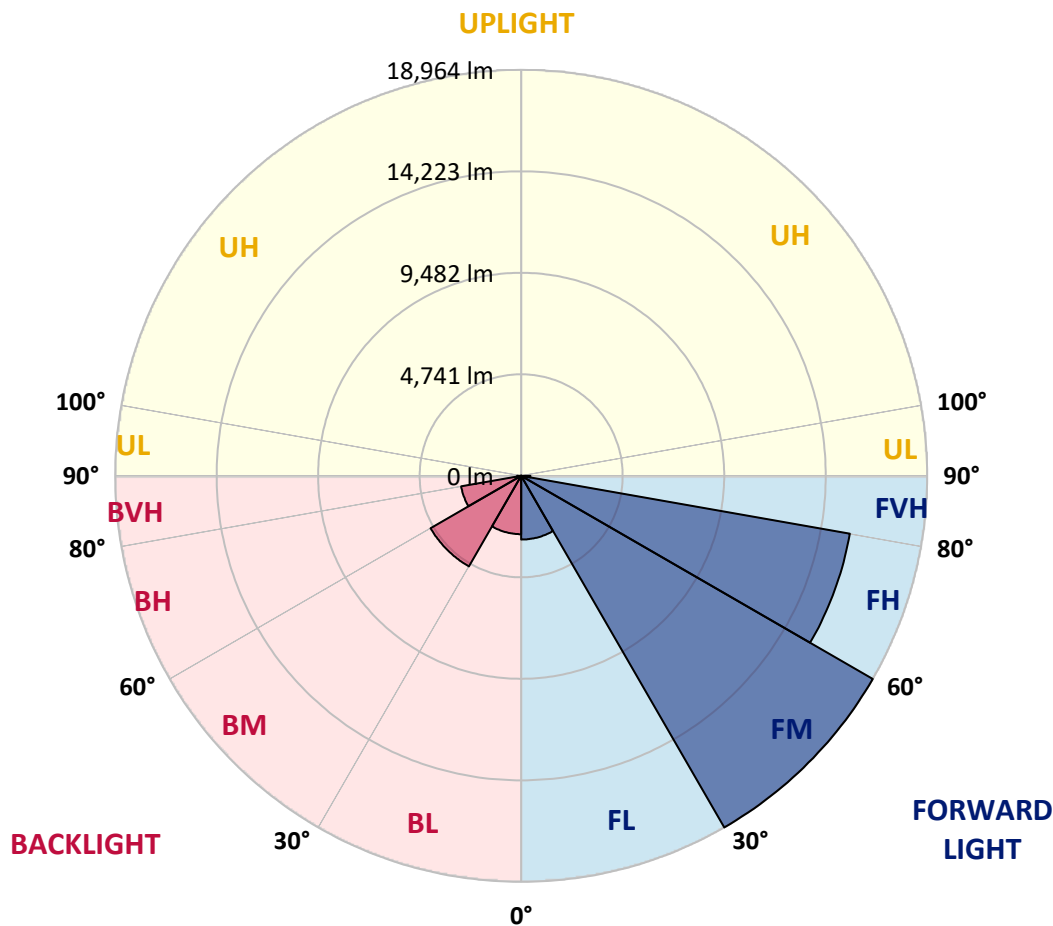
CATALOG NUMBER: NVN-SB5D-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2977.7	6.1			
FM	(30°-60°)	18963.6	39.0			
FH	(60°-80°)	15587.6	32.1			G5
FVH	(80°-90°)	430.3	0.9			G3/500
BL	(0°-30°)	2727.1	5.6	B4/5000		
BM	(30°-60°)	4886.5	10.1	B3/5000		
BH	(60°-80°)	2844.5	5.9	B4/5000		G4/5000
BVH	(80°-90°)	185.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



REPORT NUMBER: P969473

CATALOG NUMBER: NVN-SB5D-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	6250.2	6247.8	6280.2	6290.1	6349.9	6392.2	6471.8	6556.4	6666.0	6678.4	6745.6
5°	5889.3	5889.3	5926.7	5966.5	6043.7	6128.3	6250.2	6397.1	6586.3	6616.2	6782.9
7.5°	5583.2	5603.1	5635.4	5712.6	5802.2	5924.2	6110.9	6319.9	6568.9	6616.2	6885.0
10°	5336.8	5359.2	5399.0	5461.2	5595.7	5764.9	6008.9	6277.7	6611.2	6685.9	7034.4
12.5°	5259.6	5282.0	5304.4	5351.7	5476.2	5675.3	5966.5	6297.6	6713.2	6788.0	7238.4
15°	5438.9	5466.2	5448.8	5436.3	5501.1	5682.8	5986.4	6369.8	6840.2	6947.2	7489.9
17.5°	5852.0	5862.0	5822.1	5705.2	5695.2	5792.3	6081.0	6469.3	6999.5	7116.5	7743.8
20°	6519.1	6501.7	6419.6	6188.0	6056.1	6036.2	6242.9	6618.7	7163.8	7288.3	8017.6
22.5°	7425.2	7405.2	7241.0	6875.1	6581.3	6387.2	6476.8	6812.9	7348.0	7487.4	8283.9
25°	8555.3	8527.9	8286.4	7788.6	7333.1	6852.6	6795.4	7069.2	7574.5	7704.0	8562.7
27.5°	9874.5	9852.1	9590.7	8933.6	8276.5	7489.9	7191.2	7370.4	7811.0	7957.9	8876.4
30°	11293.3	11358.0	10895.0	10188.2	9356.8	8321.3	7723.9	7741.3	8117.2	8249.1	9257.2
32.5°	12961.1	13073.1	12515.6	11619.4	10484.3	9224.8	8396.0	8259.0	8562.7	8672.2	9737.6
35°	14613.8	14740.8	14277.8	13287.2	11980.3	10290.2	9097.9	8853.9	9155.1	9274.6	10374.8
37.5°	16042.7	16211.9	15973.0	15111.7	13580.8	11574.6	10013.9	9553.4	9884.5	10033.8	11231.1
40°	17170.3	17429.1	17411.7	16874.1	15467.7	13132.8	11176.4	10417.2	10790.5	10952.3	12269.0
42.5°	18086.2	18310.3	18504.4	18477.1	17436.6	14902.6	12542.9	11539.8	11823.5	12010.2	13436.5
45°	18718.6	18957.5	19375.7	19826.2	19330.9	16796.9	14108.6	12871.4	13130.4	13411.6	14828.0
47.5°	19283.5	19554.8	20097.5	20811.9	20938.8	18698.6	15823.6	14422.3	14658.7	14949.9	16224.4
50°	19333.3	19567.4	20408.7	21421.8	22081.4	20525.6	17665.6	16162.1	16383.7	16694.8	17720.4
52.5°	18131.0	18499.5	19968.0	21404.4	22606.6	22054.0	19495.1	17971.7	18220.7	18594.0	19268.6
55°	14073.8	14613.8	18676.2	20737.2	22419.9	23042.2	21235.0	19895.9	20214.5	20605.3	20826.9
57.5°	12122.3	12358.7	14825.5	19522.6	21568.6	23298.6	22703.6	21839.9	22352.7	22780.8	22474.7
60°	10895.0	11091.7	12550.4	17633.3	20448.4	22892.9	23838.7	23652.1	24538.2	25048.4	24159.9
62.5°	9580.8	9767.4	11094.2	14723.4	19014.7	22218.3	24555.6	25324.8	26778.4	27336.0	25747.9
65°	8276.5	8435.8	9707.8	12371.1	17192.6	21543.8	24926.5	26771.0	28851.9	29429.4	27067.2
67.5°	6822.8	6954.7	8156.9	10437.1	14977.3	20620.2	25110.7	27908.5	30656.5	31151.9	27719.3
70°	4923.6	5025.6	6267.7	8254.0	12196.9	19032.1	25036.0	28715.0	31592.4	31988.2	27226.5
72.5°	2327.4	2419.5	3878.1	5359.2	8615.0	15940.6	23525.1	28075.3	30641.6	30445.0	24209.6
75°	1242.1	1321.7	2227.8	2939.7	4550.2	10927.4	19251.2	24184.7	25730.5	24774.7	17892.1
77.5°	841.3	903.5	1379.0	1764.8	2078.5	5187.4	12373.6	16744.6	16109.8	14531.7	8961.0
80°	667.1	731.8	1130.1	1194.8	1005.6	1874.3	5112.7	7751.3	5568.2	4453.1	2548.9
82.5°	512.8	585.0	950.9	866.2	547.7	769.2	1488.5	2451.8	1426.3	1085.3	617.4
85°	313.6	390.8	746.7	552.6	308.6	351.0	505.3	682.0	435.6	363.5	221.5
87.5°	159.3	224.1	378.3	201.6	139.4	82.1	134.4	134.4	114.5	99.5	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969473

CATALOG NUMBER: NVN-SB5D-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	6805.4	6855.2	6939.8	7019.4	7081.6	7141.4	7201.1	7233.5	7243.5	7283.3	7305.7
5°	6885.0	6977.2	7141.4	7295.7	7392.8	7452.6	7494.9	7519.8	7524.7	7537.2	7557.1
7.5°	7031.9	7178.8	7407.8	7562.0	7634.3	7629.3	7611.9	7549.6	7524.7	7502.4	7507.3
10°	7238.4	7432.7	7713.9	7821.0	7776.2	7656.6	7502.4	7320.7	7236.0	7153.9	7129.0
12.5°	7494.9	7741.3	8017.6	8012.6	7791.1	7485.0	7126.5	6847.7	6671.0	6544.0	6514.2
15°	7806.0	8089.8	8301.4	8132.1	7646.7	7096.6	6571.4	6208.0	6048.6	5909.2	5894.4
17.5°	8127.1	8430.8	8527.9	8094.7	7283.3	6521.6	5926.7	5640.5	5483.6	5408.9	5431.4
20°	8440.8	8741.9	8662.3	7880.7	6730.7	5869.5	5339.2	5182.4	5150.1	5167.5	5160.1
22.5°	8771.8	9040.6	8689.6	7467.5	6026.3	5202.4	4911.1	4916.1	4988.3	5040.5	5053.0
25°	9110.3	9292.0	8617.5	6870.1	5269.5	4712.0	4639.8	4719.4	4861.4	4963.4	4990.7
27.5°	9436.5	9516.1	8460.7	6130.8	4619.9	4361.0	4373.5	4537.8	4751.8	4893.7	4928.5
30°	9804.8	9715.2	8159.5	5299.5	4169.4	4059.8	4164.4	4356.0	4570.1	4697.1	4726.9
32.5°	10220.5	9886.9	7681.6	4530.3	3850.7	3818.3	3990.1	4114.6	4209.2	4246.5	4266.5
35°	10738.2	10128.4	7069.2	3990.1	3564.4	3641.6	3805.9	3743.7	3706.4	3686.4	3706.4
37.5°	11410.3	10454.5	6352.3	3639.2	3333.0	3514.7	3581.9	3387.7	3240.8	3168.7	3186.1
40°	12219.3	10932.4	5662.8	3367.8	3186.1	3405.2	3288.2	3054.2	2867.5	2765.4	2772.9
42.5°	13117.8	11432.7	5082.9	3163.8	3104.0	3315.6	3071.6	2792.8	2491.7	2459.3	2491.7
45°	14061.3	11948.0	4687.1	3006.9	3064.1	3238.4	2947.2	2496.6	2282.6	2414.5	2484.2
47.5°	15004.7	12420.9	4448.1	2889.9	3044.2	3151.3	2837.6	2332.4	2180.5	2372.2	2461.7
50°	16055.1	12844.1	4341.1	2805.3	3021.8	3116.4	2673.4	2290.1	2073.5	2200.5	2295.0
52.5°	17098.0	13172.7	4261.4	2720.7	2989.5	3089.0	2593.7	2240.2	1944.0	1951.5	2003.8
55°	18138.5	13386.7	4174.3	2608.6	2917.3	3029.3	2586.3	2185.5	1846.9	1812.1	1837.0
57.5°	19248.7	13508.7	4067.3	2484.2	2792.8	2877.5	2578.8	2143.2	1817.1	1759.8	1767.3
60°	20378.7	13688.0	3927.9	2332.4	2626.0	2695.7	2561.4	2128.2	1799.7	1702.6	1710.0
62.5°	21391.9	13750.2	3761.1	2188.0	2412.0	2516.6	2524.1	2115.8	1752.3	1585.6	1585.6
65°	22056.5	13481.3	3469.9	2023.7	2180.5	2332.4	2451.8	2073.5	1667.8	1501.0	1501.0
67.5°	22029.1	12714.6	3014.4	1812.1	1956.5	2128.2	2347.2	2001.3	1565.7	1396.5	1403.8
70°	21003.6	11201.2	2436.9	1565.7	1710.0	1909.2	2212.9	1894.3	1443.7	1282.0	1296.8
72.5°	18014.1	8766.8	1769.8	1276.9	1423.8	1682.6	2038.6	1764.8	1319.3	1179.9	1172.4
75°	12869.0	5548.3	1199.8	980.7	1107.7	1426.3	1822.0	1612.9	1204.8	1184.8	1117.7
77.5°	6573.8	2651.0	794.1	716.9	771.6	1125.1	1530.8	1441.3	1222.2	978.3	871.2
80°	2138.1	978.3	500.3	487.9	512.8	749.3	1184.8	1182.3	926.0	664.6	587.4
82.5°	682.0	420.7	326.1	313.6	301.1	470.5	826.4	935.9	624.7	420.7	418.2
85°	271.3	251.4	191.7	176.7	127.0	221.5	433.2	622.3	465.5	303.7	311.2
87.5°	99.5	99.5	52.3	37.3	27.4	74.7	117.0	186.7	266.3	156.8	154.4
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)