

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: P967365

Luminaire Tested: **NVN-SB4D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967365
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-SB4D-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 38560.5 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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



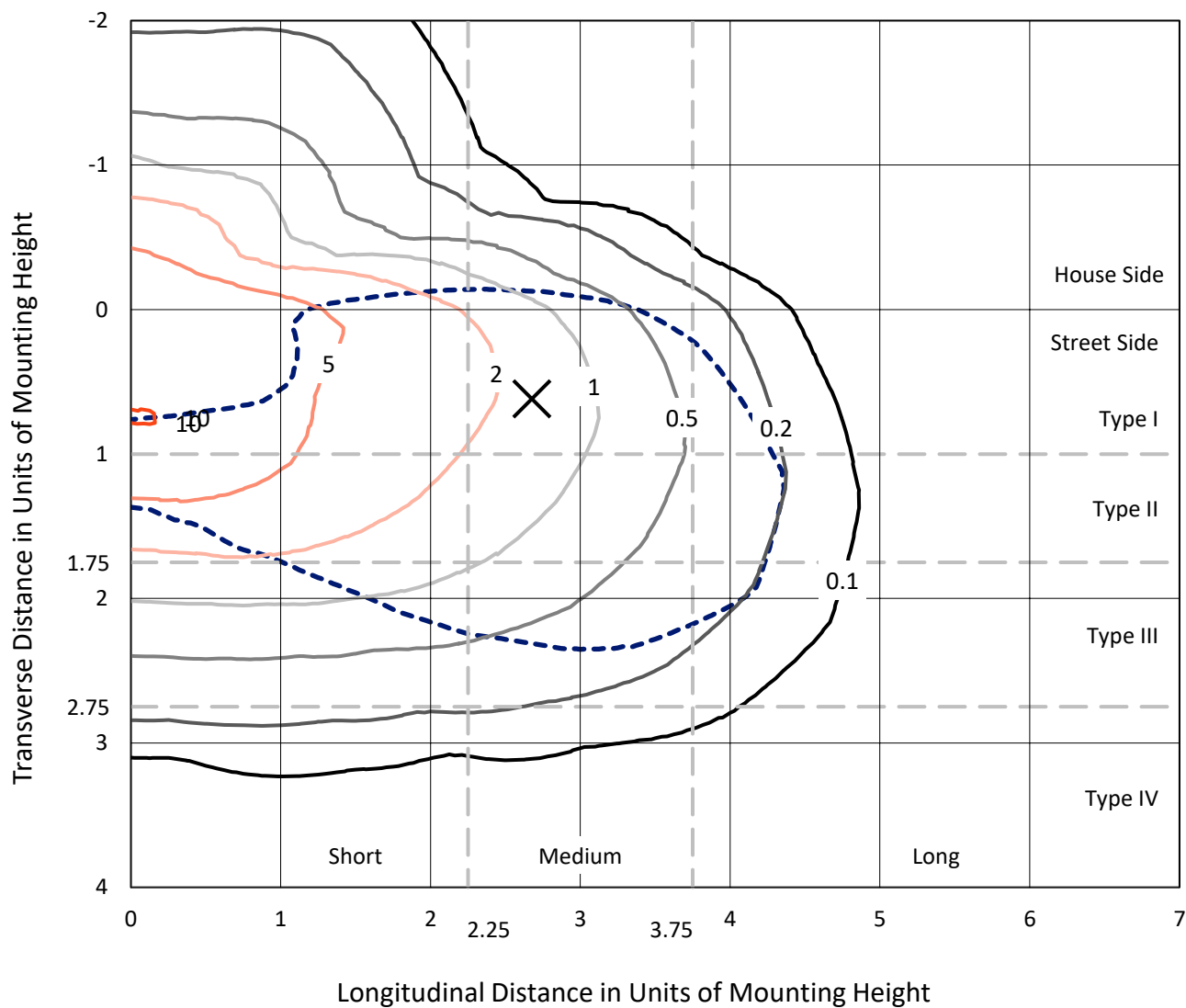
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

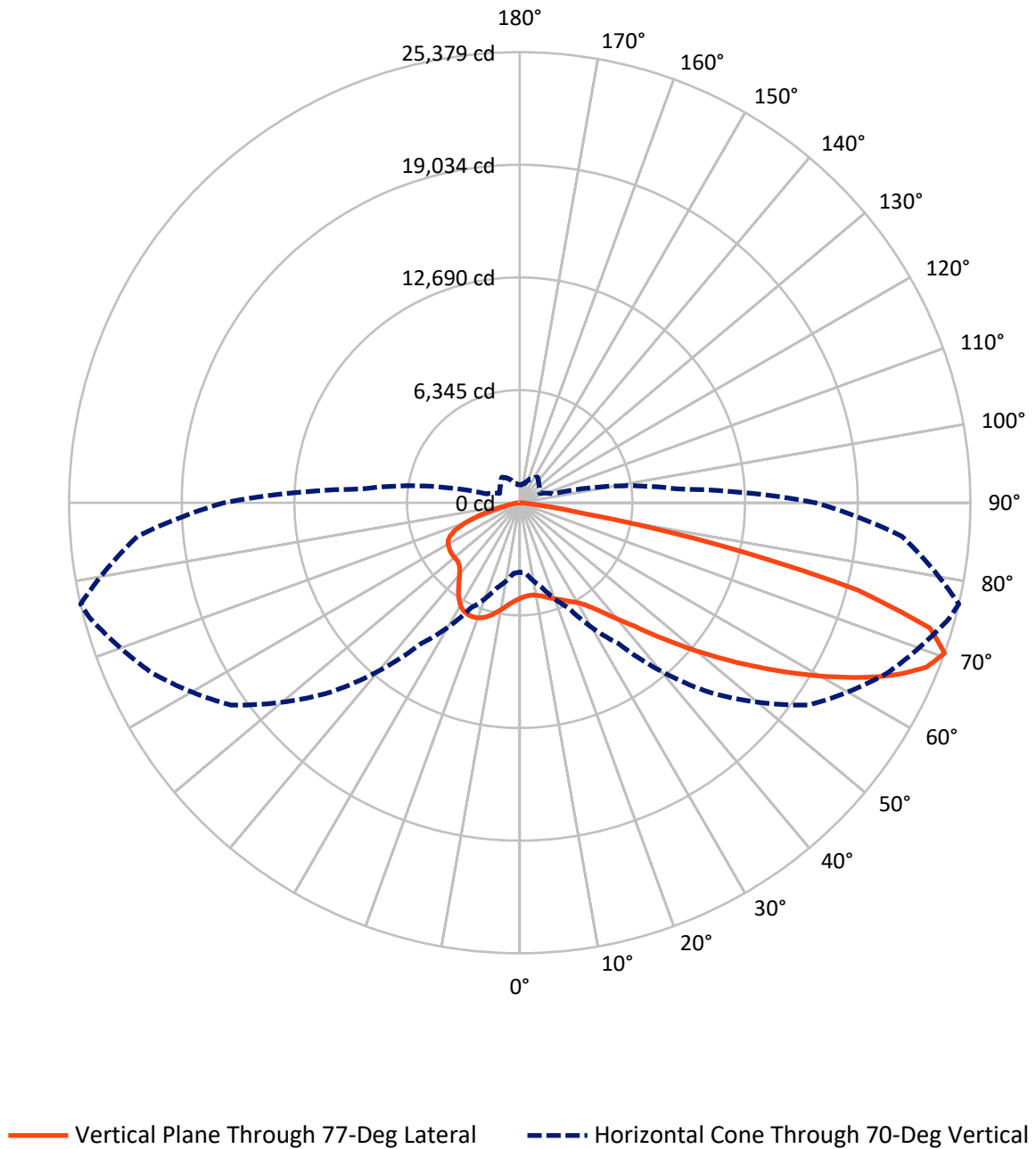


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8444.1	0.0	8444.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30116.3	0.0	30116.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	38560.5	0.0	38560.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	1.3
10°-20°	1480.8	3.8
20°-30°	2532.3	6.6
30°-40°	4072.2	10.6
40°-50°	6357.7	16.5
50°-60°	8492.4	22.0
60°-70°	9051.6	23.5
70°-80°	5572.1	14.5
80°-90°	488.3	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°	38560.5	100.0
0°-180°	38560.5	100.0

Coefficient of Utilization



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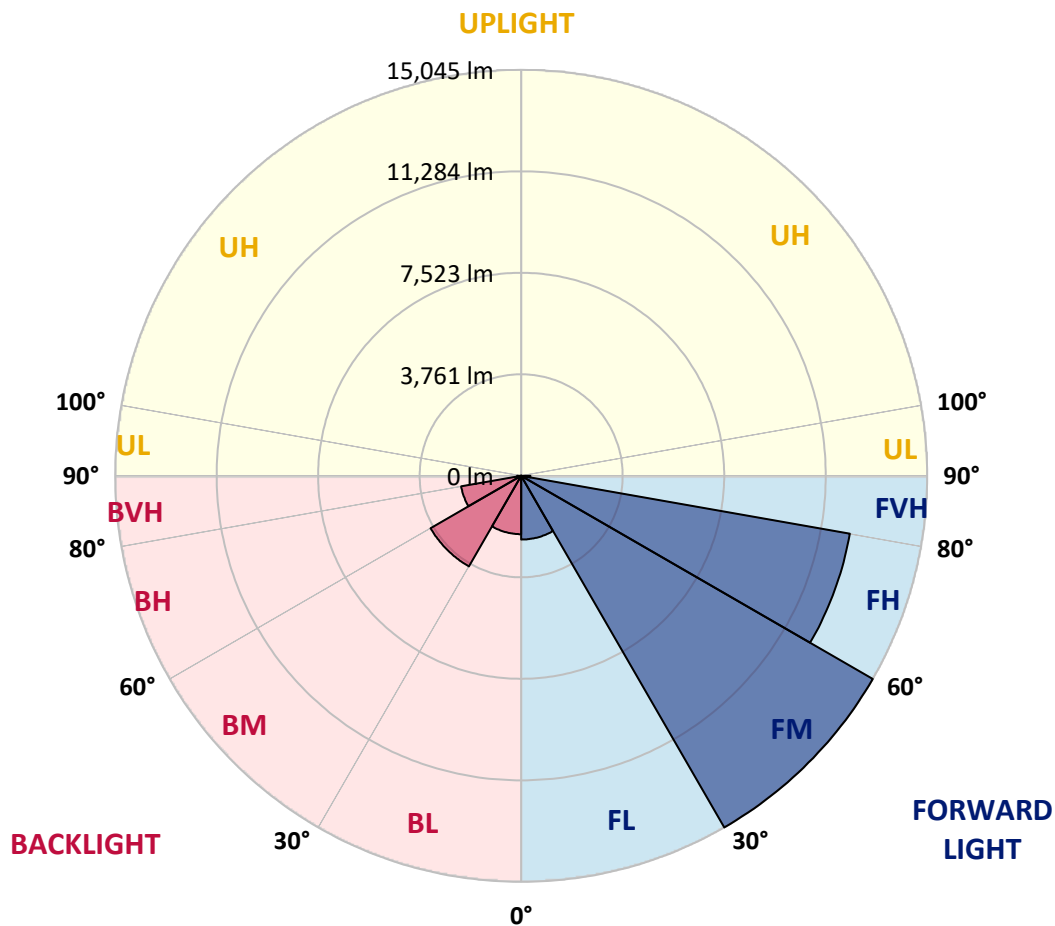
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2362.5	6.1			
FM	(30°-60°)	15045.5	39.0			
FH	(60°-80°)	12367.0	32.1			G5
FVH	(80°-90°)	341.4	0.9			G3/500
BL	(0°-30°)	2163.7	5.6	B3/2500		
BM	(30°-60°)	3876.9	10.1	B3/5000		
BH	(60°-80°)	2256.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	146.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5
2.5°	4958.8	4956.9	4982.6	4990.5	5037.9	5071.5	5134.6	5201.8	5288.7	5298.5	5351.9
5°	4672.6	4672.6	4702.2	4733.8	4795.0	4862.1	4958.8	5075.4	5225.6	5249.2	5381.6
7.5°	4429.6	4445.4	4471.2	4532.3	4603.4	4700.1	4848.4	5014.2	5211.7	5249.2	5462.5
10°	4234.1	4251.9	4283.5	4332.9	4439.5	4573.8	4767.4	4980.6	5245.2	5304.5	5581.0
12.5°	4172.9	4190.7	4208.4	4246.0	4344.7	4502.7	4733.8	4996.5	5326.2	5385.5	5742.9
15°	4315.0	4336.8	4322.9	4313.1	4364.4	4508.7	4749.5	5053.7	5427.0	5511.8	5942.3
17.5°	4642.9	4650.8	4619.3	4526.4	4518.5	4595.5	4824.6	5132.7	5553.3	5646.1	6143.8
20°	5172.2	5158.3	5093.2	4909.5	4804.9	4789.0	4953.0	5251.2	5683.6	5782.4	6361.0
22.5°	5891.0	5875.2	5744.9	5454.5	5221.6	5067.5	5138.6	5405.2	5829.8	5940.4	6572.4
25°	6787.7	6765.9	6574.4	6179.3	5818.0	5436.8	5391.4	5608.6	6009.6	6112.2	6793.6
27.5°	7834.3	7816.5	7609.2	7087.8	6566.5	5942.3	5705.4	5847.6	6197.2	6313.7	7042.4
30°	8959.9	9011.3	8644.0	8083.2	7423.6	6602.0	6128.1	6141.8	6440.1	6544.7	7344.5
32.5°	10283.1	10372.0	9929.7	9218.6	8318.2	7318.9	6661.3	6552.6	6793.6	6880.4	7725.7
35°	11594.5	11695.1	11327.9	10541.8	9505.0	8164.1	7218.2	7024.6	7263.6	7358.4	8231.3
37.5°	12728.0	12862.3	12672.7	11989.4	10774.9	9183.2	7944.9	7579.6	7842.2	7960.7	8910.6
40°	13622.7	13828.1	13814.2	13387.6	12271.8	10419.4	8867.2	8264.8	8561.0	8689.4	9734.1
42.5°	14349.4	14527.1	14681.2	14659.4	13833.9	11823.6	9951.3	9155.5	9380.6	9528.7	10660.3
45°	14851.0	15040.6	15372.3	15729.9	15336.9	13326.4	11193.5	10212.1	10417.4	10640.6	11764.3
47.5°	15299.4	15514.6	15945.1	16511.8	16612.6	14835.2	12554.2	11442.4	11630.0	11861.1	12872.2
50°	15338.8	15524.4	16191.9	16995.7	17519.1	16284.8	14015.6	12822.9	12998.5	13245.5	14059.1
52.5°	14385.0	14677.2	15842.4	16981.9	17935.8	17497.4	15467.1	14258.6	14456.1	14752.3	15287.5
55°	11165.9	11594.5	14817.4	16452.6	17787.6	18281.4	16847.6	15785.1	16037.9	16347.9	16523.7
57.5°	9617.6	9805.3	11762.3	15488.9	17112.3	18484.7	18012.7	17327.5	17734.3	18074.0	17831.1
60°	8644.0	8800.0	9957.3	13989.9	16223.5	18162.9	18913.3	18765.2	19468.2	19873.1	19168.1
62.5°	7601.3	7749.4	8802.0	11681.3	15086.1	17627.6	19482.1	20092.4	21245.6	21688.0	20428.0
65°	6566.5	6692.8	7702.0	9815.1	13640.4	17092.5	19776.4	21239.7	22890.7	23348.9	21474.7
67.5°	5413.1	5517.8	6471.6	8280.7	11882.8	16359.8	19922.5	22142.3	24322.4	24715.5	21992.1
70°	3906.3	3987.2	4972.7	6548.6	9676.8	15099.9	19863.3	22782.1	25065.0	25379.0	21601.2
72.5°	1846.5	1919.6	3076.8	4251.9	6835.0	12647.1	18664.4	22274.6	24310.6	24154.6	19207.6
75°	985.4	1048.7	1767.5	2332.3	3610.0	8669.7	15273.6	19187.8	20414.2	19655.9	14195.3
77.5°	667.5	716.9	1094.1	1400.1	1649.0	4115.6	9817.0	13284.9	12781.3	11529.3	7109.5
80°	529.3	580.7	896.6	947.9	797.9	1487.1	4056.3	6149.7	4417.8	3533.1	2022.2
82.5°	406.8	464.1	754.4	687.3	434.5	610.3	1181.0	1945.2	1131.6	861.0	489.7
85°	248.9	310.1	592.4	438.4	244.9	278.5	400.9	541.1	345.6	288.3	175.8
87.5°	126.4	177.7	300.2	160.0	110.6	65.2	106.6	106.6	90.8	79.0	45.4
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°	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5	5379.5
2.5°	5399.3	5438.8	5505.9	5569.1	5618.5	5665.9	5713.2	5739.0	5746.9	5778.4	5796.3
5°	5462.5	5535.5	5665.9	5788.4	5865.4	5912.7	5946.3	5966.1	5970.0	5980.0	5995.7
7.5°	5579.0	5695.5	5877.2	5999.6	6056.9	6052.9	6039.2	5989.8	5970.0	5952.3	5956.2
10°	5742.9	5896.9	6120.1	6205.0	6169.5	6074.7	5952.3	5808.1	5740.9	5675.7	5656.1
12.5°	5946.3	6141.8	6361.0	6357.2	6181.4	5938.4	5654.0	5432.9	5292.7	5191.9	5168.3
15°	6193.2	6418.3	6586.1	6451.9	6066.8	5630.3	5213.7	4925.3	4798.9	4688.3	4676.5
17.5°	6448.0	6688.8	6765.9	6422.2	5778.4	5174.2	4702.2	4475.0	4350.6	4291.4	4309.2
20°	6696.7	6935.8	6872.5	6252.4	5340.0	4656.8	4236.1	4111.7	4086.0	4099.8	4094.0
22.5°	6959.4	7172.7	6894.3	5924.6	4781.1	4127.5	3896.4	3900.3	3957.6	3999.1	4009.0
25°	7228.0	7372.2	6837.0	5450.6	4180.8	3738.4	3681.2	3744.3	3856.9	3937.8	3959.6
27.5°	7486.7	7549.9	6712.6	4864.1	3665.4	3460.0	3469.8	3600.2	3770.1	3882.6	3910.3
30°	7779.0	7707.9	6473.6	4204.4	3307.9	3221.0	3304.0	3456.0	3625.8	3726.6	3750.3
32.5°	8108.8	7844.2	6094.4	3594.3	3055.1	3029.5	3165.7	3264.4	3339.6	3369.2	3385.0
35°	8519.6	8035.7	5608.6	3165.7	2828.0	2889.3	3019.5	2970.2	2940.6	2924.7	2940.6
37.5°	9052.8	8294.4	5039.8	2887.2	2644.4	2788.5	2841.8	2687.8	2571.3	2514.0	2527.9
40°	9694.7	8673.7	4492.8	2672.0	2527.9	2701.6	2608.8	2423.2	2275.1	2194.1	2200.0
42.5°	10407.5	9070.5	4032.7	2510.0	2462.7	2630.6	2436.9	2215.8	1976.8	1951.2	1976.8
45°	11156.0	9479.4	3718.7	2385.7	2431.1	2569.3	2338.2	1980.8	1811.0	1915.6	1970.9
47.5°	11904.6	9854.6	3529.1	2292.8	2415.3	2500.2	2251.3	1850.4	1730.0	1882.0	1953.1
50°	12737.9	10190.3	3444.2	2225.7	2397.5	2472.5	2121.0	1816.9	1645.0	1745.8	1820.8
52.5°	13565.4	10451.0	3381.0	2158.5	2371.8	2450.8	2057.8	1777.4	1542.4	1548.3	1589.8
55°	14390.9	10620.8	3311.9	2069.7	2314.6	2403.4	2051.8	1733.9	1465.3	1437.7	1457.4
57.5°	15271.7	10717.6	3226.9	1970.9	2215.8	2283.0	2046.0	1700.4	1441.7	1396.3	1402.2
60°	16168.2	10859.8	3116.3	1850.4	2083.5	2138.8	2032.2	1688.5	1427.8	1350.8	1356.7
62.5°	16972.1	10909.2	2984.0	1735.9	1913.7	1996.6	2002.5	1678.6	1390.3	1258.0	1258.0
65°	17499.3	10695.9	2752.9	1605.6	1730.0	1850.4	1945.2	1645.0	1323.2	1190.8	1190.8
67.5°	17477.6	10087.6	2391.5	1437.7	1552.3	1688.5	1862.3	1587.8	1242.2	1107.9	1113.9
70°	16663.9	8887.0	1933.4	1242.2	1356.7	1514.7	1755.6	1502.9	1145.4	1017.1	1028.9
72.5°	14292.1	6955.4	1404.1	1013.1	1129.7	1335.0	1617.4	1400.1	1046.7	936.1	930.2
75°	10210.0	4402.0	951.9	778.1	878.8	1131.6	1445.6	1279.7	955.8	940.0	886.7
77.5°	5215.6	2103.2	630.0	568.8	612.2	892.7	1214.5	1143.5	969.6	776.1	691.2
80°	1696.4	776.1	397.0	387.0	406.8	594.4	940.0	938.1	734.6	527.3	466.1
82.5°	541.1	333.7	258.7	248.9	238.9	373.2	655.7	742.5	495.7	333.7	331.8
85°	215.2	199.5	152.1	140.2	100.8	175.8	343.6	493.7	369.3	241.0	246.8
87.5°	79.0	79.0	41.5	29.6	21.7	59.2	92.9	148.1	211.4	124.4	122.5
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)