

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: P883421

Luminaire Tested: **NVN-SB3D-730-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-730-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

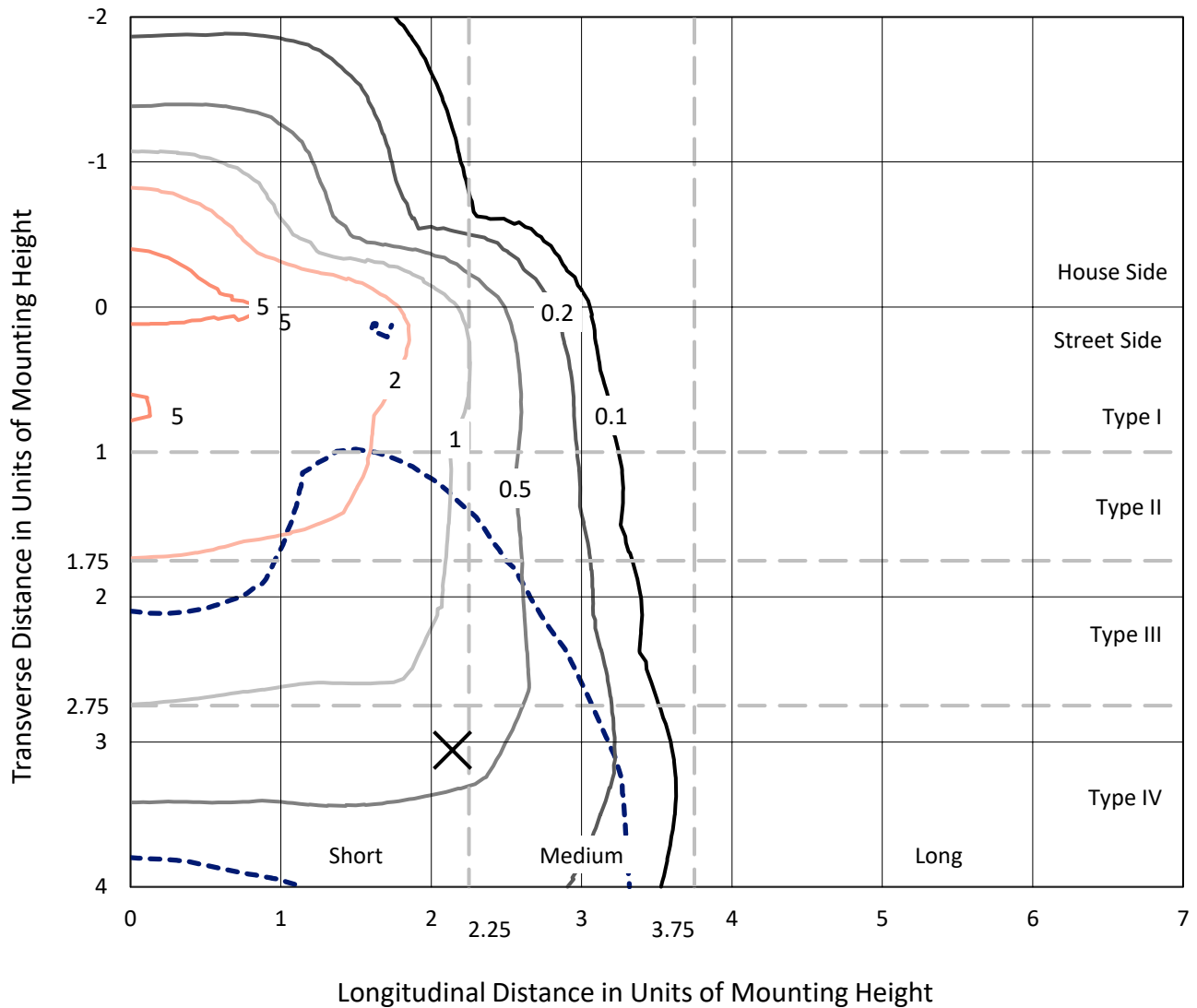
Lumens per Lamp: N/A  
Luminaire Lumens: 29696 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883421  
 CATALOG NUMBER: NVN-SB3D-730-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

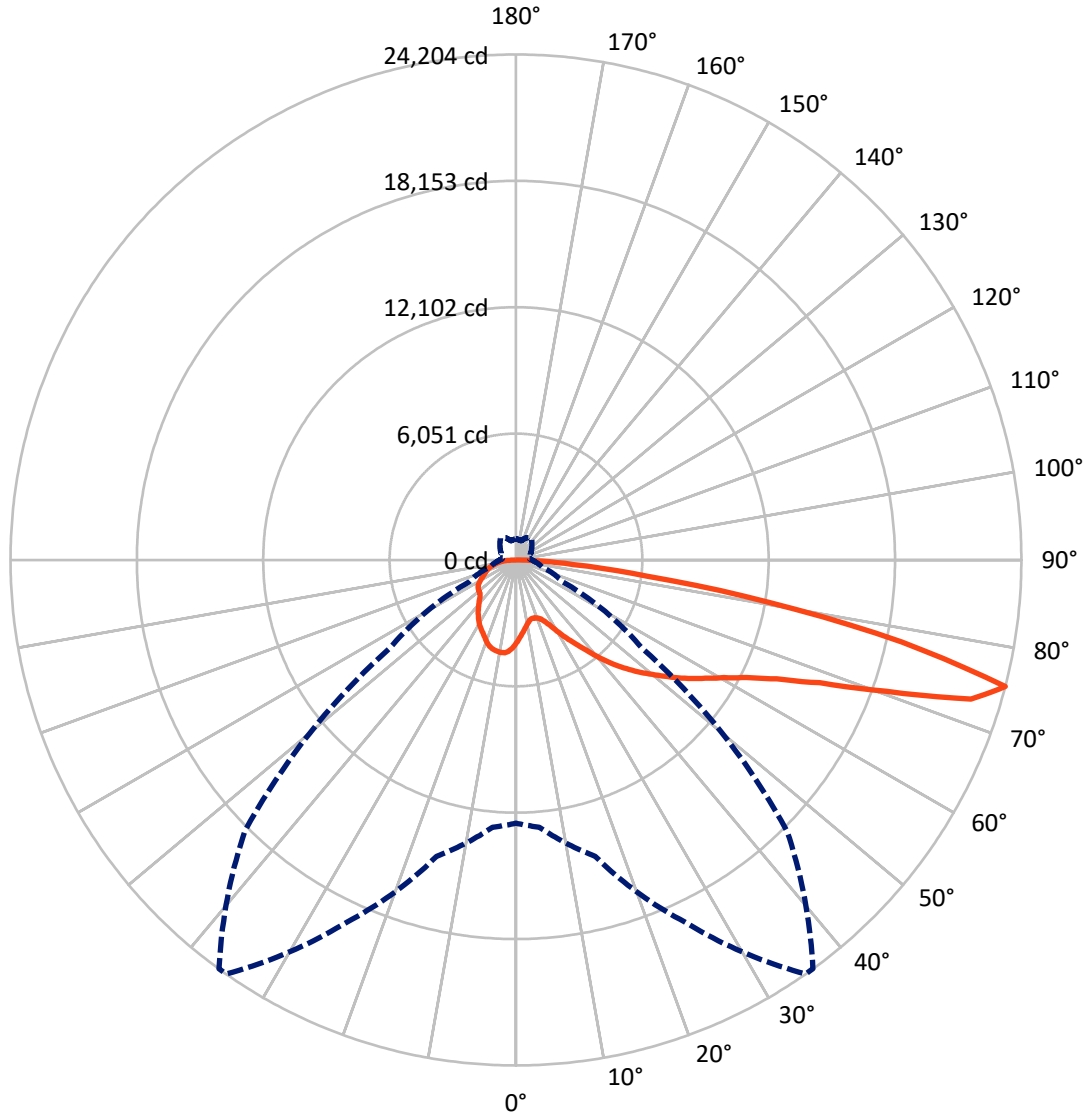
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P883421  
CATALOG NUMBER: NVN-SB3D-730-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P883421  
 CATALOG NUMBER: NVN-SB3D-730-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7066.9	0.0	7066.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	22629.1	0.0	22629.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	29696.0	0.0	29696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.7	1.3
10°-20°	1080.7	3.6
20°-30°	1814.8	6.1
30°-40°	2820.4	9.5
40°-50°	4186.3	14.1
50°-60°	5779.4	19.5
60°-70°	7011.7	23.6
70°-80°	5794.6	19.5
80°-90°	833.4	2.8
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°	29696.0	100.0
0°-180°	29696.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883421

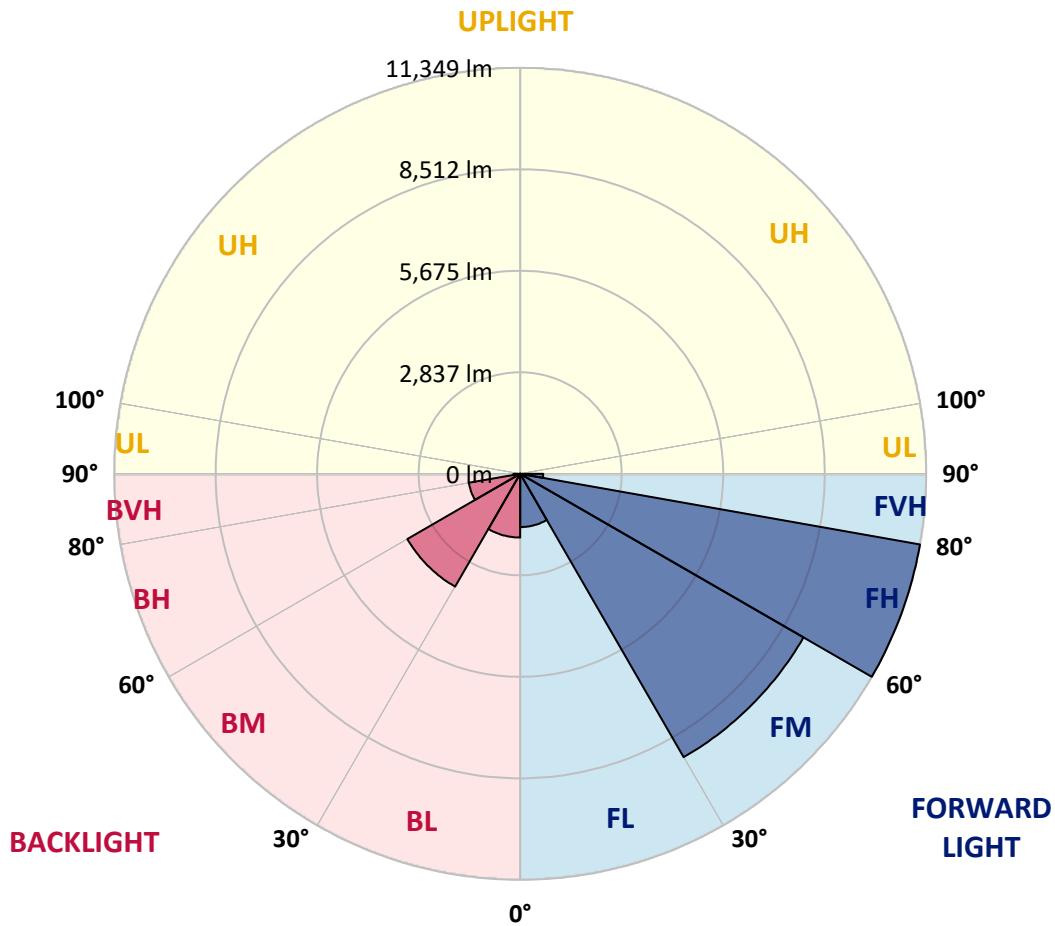
CATALOG NUMBER: NVN-SB3D-730-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.2	5.0			
FM (30°-60°)	9144.8	30.8			
FH (60°-80°)	11349.4	38.2			G4/12000
FVH (80°-90°)	645.8	2.2			G4/750
BL (0°-30°)	1781.0	6.0	B3/2500		
BM (30°-60°)	3641.3	12.3	B3/5000		
BH (60°-80°)	1457.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	187.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



REPORT NUMBER: P883421  
 CATALOG NUMBER: NVN-SB3D-730-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2
2.5°	3649.0	3671.4	3681.1	3676.3	3700.3	3697.1	3730.8	3772.6	3830.4	3886.6	3968.4
5°	3368.0	3392.1	3413.0	3432.2	3478.8	3493.2	3546.2	3626.5	3732.4	3840.0	3974.9
7.5°	3106.4	3127.2	3159.3	3194.7	3273.3	3287.8	3376.1	3501.3	3649.0	3806.3	3992.5
10°	2892.8	2913.7	2947.4	2987.6	3085.5	3103.1	3215.5	3382.5	3575.1	3774.2	4011.8
12.5°	2801.3	2807.8	2827.0	2867.2	2952.2	2963.5	3087.1	3278.1	3502.9	3750.1	4040.7
15°	2796.5	2809.4	2811.0	2831.8	2902.5	2907.3	3021.3	3210.7	3457.9	3745.3	4084.0
17.5°	2844.7	2854.3	2839.9	2852.7	2912.1	2920.1	3010.0	3178.6	3443.5	3766.2	4157.9
20°	2973.1	2981.1	2937.8	2920.1	2963.5	2969.9	3058.2	3199.5	3457.9	3809.5	4259.0
22.5°	3246.0	3250.8	3144.9	3072.6	3075.9	3079.1	3156.1	3284.6	3514.1	3888.2	4387.4
25°	3671.4	3668.2	3499.7	3360.0	3279.7	3262.1	3313.4	3422.6	3608.8	3992.5	4552.8
27.5°	4169.1	4145.0	3976.5	3767.8	3592.8	3567.1	3555.9	3602.4	3743.7	4130.6	4755.1
30°	4731.0	4708.5	4527.1	4254.2	4011.8	3970.0	3864.1	3840.0	3944.4	4318.4	5036.0
32.5°	5347.4	5333.0	5116.3	4785.6	4461.3	4413.1	4234.9	4170.7	4252.6	4602.5	5427.7
35°	5864.4	5851.5	5671.7	5331.4	4934.9	4875.5	4694.0	4621.8	4663.5	4967.0	5939.8
37.5°	6331.5	6325.1	6171.0	5902.9	5493.5	5421.3	5217.4	5193.3	5185.3	5447.0	6561.1
40°	6765.0	6748.9	6588.4	6447.1	6143.7	6077.9	5898.1	5877.2	5816.2	6037.7	7264.2
42.5°	7245.0	7203.2	6970.4	6904.6	6822.7	6768.2	6660.6	6663.8	6529.0	6704.0	8009.1
45°	7636.7	7612.6	7373.4	7334.9	7423.1	7400.7	7493.8	7517.9	7256.2	7402.3	8782.9
47.5°	8057.3	8034.8	7832.5	7805.2	8044.4	8050.8	8379.9	8388.0	7965.8	8127.9	9558.3
50°	8575.8	8543.7	8343.0	8376.7	8644.8	8668.9	9270.9	9216.3	8619.1	8864.8	10327.2
52.5°	8917.7	8937.0	8893.7	8948.2	9314.3	9336.7	10147.4	10007.8	9266.1	9592.0	11081.7
55°	9169.8	9208.3	9343.1	9468.4	10020.6	10043.1	10974.2	10760.7	9802.3	10266.2	11791.3
57.5°	9494.1	9439.5	9691.5	9935.5	10691.6	10751.0	11778.5	11486.3	10277.5	10847.4	12277.7
60°	9959.6	9921.1	10116.9	10478.1	11442.9	11537.7	12629.3	12139.7	10625.8	11308.1	12372.4
62.5°	10903.6	10807.2	10837.7	11157.2	12390.1	12515.3	13589.3	12709.6	10799.2	11487.9	11865.2
65°	12314.7	12149.3	11995.2	12216.7	13724.2	13847.8	14672.9	13157.5	10735.0	11139.5	10518.3
67.5°	14091.8	13928.0	13738.6	13947.3	15689.1	15787.0	16010.2	13409.5	10229.3	9797.5	8137.5
70°	15557.5	15496.5	15722.8	16581.7	18827.6	18830.8	17724.7	13200.8	8843.9	6946.4	4708.5
72.5°	15363.2	15326.3	16519.1	19174.3	22783.2	22698.1	19347.7	11621.1	5957.5	3133.6	1764.3
75°	12603.6	12842.8	14690.6	19127.8	24203.9	24192.7	18354.0	7387.8	2464.2	1298.7	911.8
77.5°	6758.5	7137.4	9537.4	14122.3	18895.0	19179.1	12903.8	2584.6	1057.9	831.6	630.9
80°	2204.1	2534.9	3801.5	7190.4	12277.7	12224.8	5530.4	1014.6	724.0	589.2	436.7
82.5°	935.9	974.4	1698.5	3395.3	6301.0	6203.1	1761.1	582.7	508.9	402.9	269.7
85°	366.0	409.4	749.7	1570.0	2729.1	2669.7	635.7	289.0	325.9	263.3	160.5
87.5°	120.4	146.1	268.1	537.8	849.2	818.7	155.7	99.5	141.3	120.4	57.8
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: P883421  
 CATALOG NUMBER: NVN-SB3D-730-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2	3957.2
2.5°	3990.9	4016.6	4047.1	4092.0	4130.6	4162.7	4196.4	4217.3	4225.3	4249.4	4247.8
5°	4019.8	4076.0	4151.4	4225.3	4297.5	4340.9	4379.4	4398.7	4416.3	4429.2	4432.4
7.5°	4068.0	4140.2	4259.0	4355.3	4416.3	4451.6	4477.3	4470.9	4477.3	4480.5	4485.4
10°	4109.7	4210.8	4352.1	4443.6	4490.2	4491.8	4485.4	4462.9	4451.6	4453.2	4456.5
12.5°	4159.5	4271.8	4424.4	4501.4	4514.3	4478.9	4451.6	4413.1	4398.7	4392.2	4389.0
15°	4226.9	4355.3	4503.0	4531.9	4499.8	4454.9	4408.3	4345.7	4313.6	4287.9	4295.9
17.5°	4308.8	4450.0	4564.0	4543.1	4474.1	4400.3	4324.8	4230.1	4164.3	4137.0	4138.6
20°	4422.7	4549.6	4610.6	4519.1	4414.7	4302.3	4173.9	4058.3	3997.3	3970.0	3966.8
22.5°	4560.8	4682.8	4655.5	4477.3	4329.6	4149.8	3989.3	3904.2	3873.7	3854.5	3857.7
25°	4726.2	4830.5	4687.6	4416.3	4190.0	3947.6	3823.9	3796.7	3782.2	3767.8	3767.8
27.5°	4941.3	4997.5	4711.7	4326.4	3971.6	3732.4	3687.5	3692.3	3687.5	3663.4	3668.2
30°	5225.4	5214.2	4734.2	4180.3	3721.2	3538.2	3541.4	3562.3	3565.5	3549.4	3557.5
32.5°	5599.5	5485.5	4745.4	3990.9	3482.0	3368.0	3371.2	3393.7	3409.8	3382.5	3395.3
35°	6052.2	5801.7	4727.8	3753.3	3297.4	3205.9	3181.8	3188.2	3193.0	3167.4	3185.0
37.5°	6580.3	6156.5	4649.1	3490.0	3144.9	3047.0	2995.6	2952.2	2926.6	2902.5	2918.5
40°	7159.9	6543.4	4504.6	3233.2	2974.7	2878.4	2801.3	2719.5	2632.8	2600.7	2615.1
42.5°	7766.7	6941.5	4329.6	2987.6	2778.9	2700.2	2618.3	2499.5	2369.5	2303.7	2311.7
45°	8396.0	7349.3	4157.9	2745.2	2578.2	2544.5	2449.8	2306.9	2165.6	2082.1	2075.7
47.5°	9012.4	7734.6	3905.8	2501.1	2390.4	2427.3	2353.4	2221.8	2064.5	1932.8	1918.4
50°	9601.6	8095.8	3493.2	2253.9	2237.9	2392.0	2321.3	2131.9	1952.1	1783.5	1769.1
52.5°	10186.0	8388.0	2965.1	2029.2	2156.0	2382.3	2279.6	2070.9	1851.0	1674.4	1655.1
55°	10682.0	8538.9	2456.2	1836.5	2037.2	2300.5	2229.8	1998.7	1708.1	1520.3	1504.2
57.5°	10964.6	8416.9	2032.4	1647.1	1873.4	2165.6	2144.8	1844.5	1537.9	1393.4	1374.2
60°	10842.5	7922.4	1685.6	1481.7	1717.7	2019.5	1997.1	1692.0	1407.9	1271.4	1252.2
62.5°	10169.9	6980.1	1411.1	1337.3	1576.5	1870.2	1849.4	1574.9	1308.4	1176.7	1155.9
65°	8815.0	5678.1	1197.6	1216.9	1433.6	1690.4	1720.9	1476.9	1229.7	1101.3	1080.4
67.5°	6723.2	4112.9	1030.6	1112.5	1293.9	1513.8	1602.1	1406.3	1163.9	1041.9	1022.6
70°	3832.0	2335.8	889.4	1011.4	1170.3	1350.1	1510.6	1350.1	1093.2	992.1	979.3
72.5°	1452.8	1072.4	769.0	910.2	1051.5	1212.0	1409.5	1261.8	1011.4	935.9	923.1
75°	775.4	653.4	647.0	791.4	915.1	1077.2	1282.7	1175.1	950.4	988.9	1021.0
77.5°	528.2	462.3	541.0	677.5	765.8	927.9	1147.8	1043.5	823.5	820.3	756.1
80°	366.0	327.5	439.9	545.8	592.4	780.2	1001.7	895.8	671.0	626.1	598.8
82.5°	219.9	213.5	329.1	407.8	419.0	602.0	830.0	751.3	549.0	478.4	481.6
85°	120.4	126.8	210.3	239.2	244.0	420.6	650.2	581.1	422.2	354.8	358.0
87.5°	33.7	43.3	77.1	94.7	117.2	218.3	386.9	345.2	211.9	147.7	147.7
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)