

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: LUMARK

Report Number: P964606

Luminaire Tested: **NAV-SB3C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964606
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: LUMARK
Catalog Number: NAV-SB3C-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25015.1 lumens
Efficiency: N/A
Efficacy: 167.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

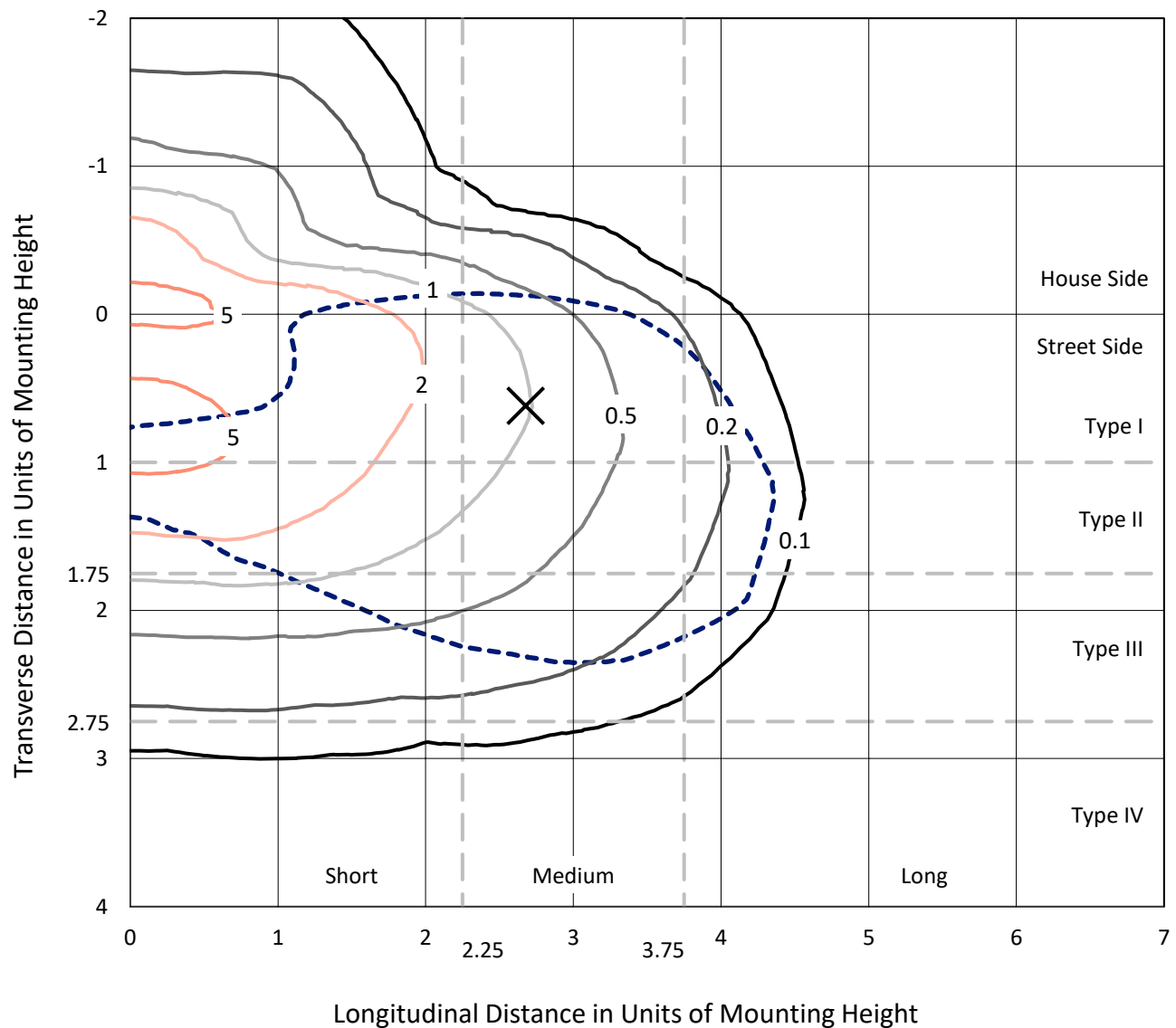


REPORT NUMBER: P964606

CATALOG NUMBER: NAV-SB3C-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

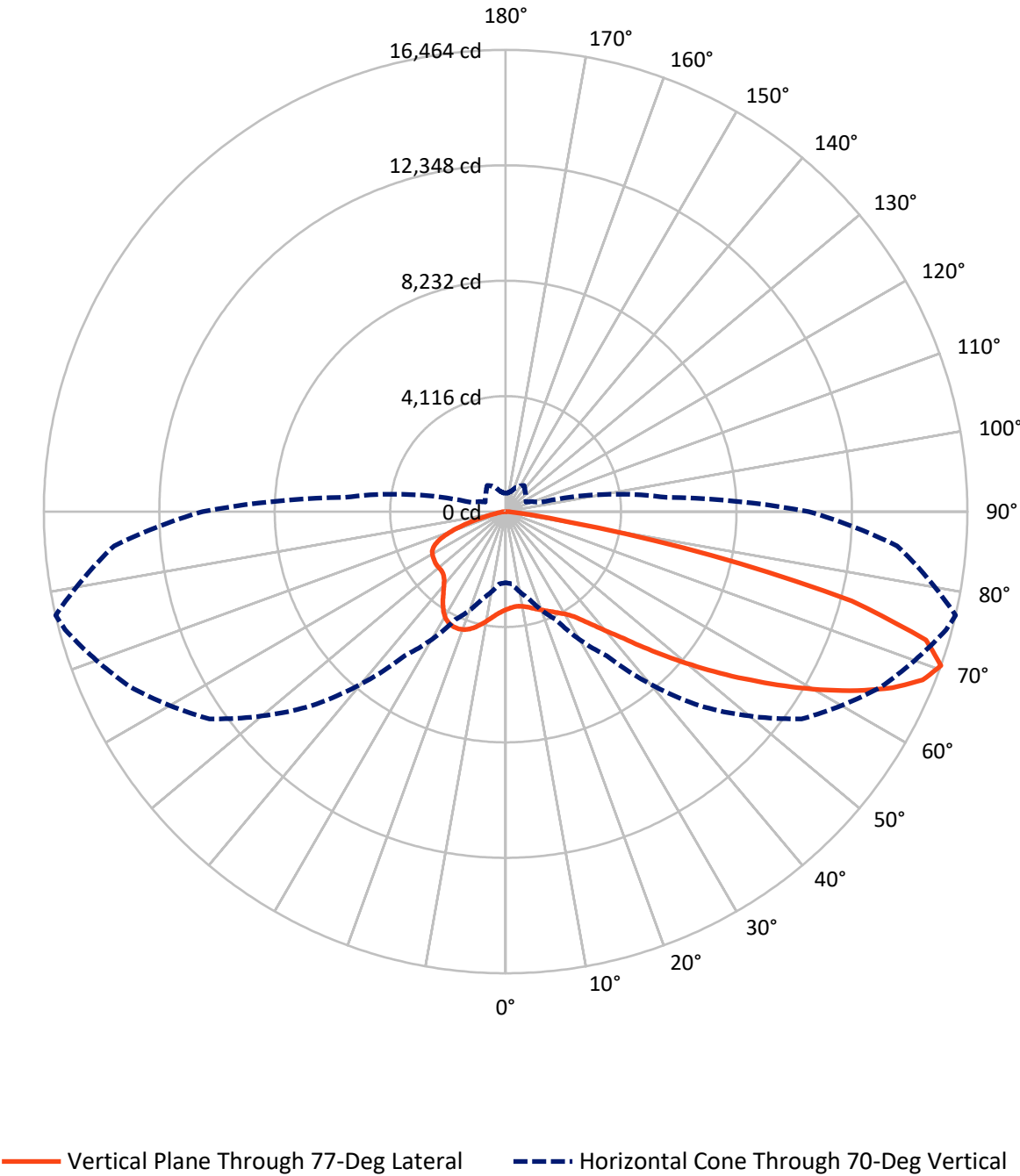
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Medium - N/A

REPORT NUMBER: P964606
CATALOG NUMBER: NAV-SB3C-740-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P964606

CATALOG NUMBER: NAV-SB3C-740-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5477.9	0.0	5477.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19537.2	0.0	19537.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	25015.1	0.0	25015.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	1.3
10°-20°	960.6	3.8
20°-30°	1642.8	6.6
30°-40°	2641.7	10.6
40°-50°	4124.4	16.5
50°-60°	5509.2	22.0
60°-70°	5872.0	23.5
70°-80°	3614.8	14.5
80°-90°	316.7	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°	25015.1	100.0
0°-180°	25015.1	100.0

Coefficient of Utilization



REPORT NUMBER: P964606

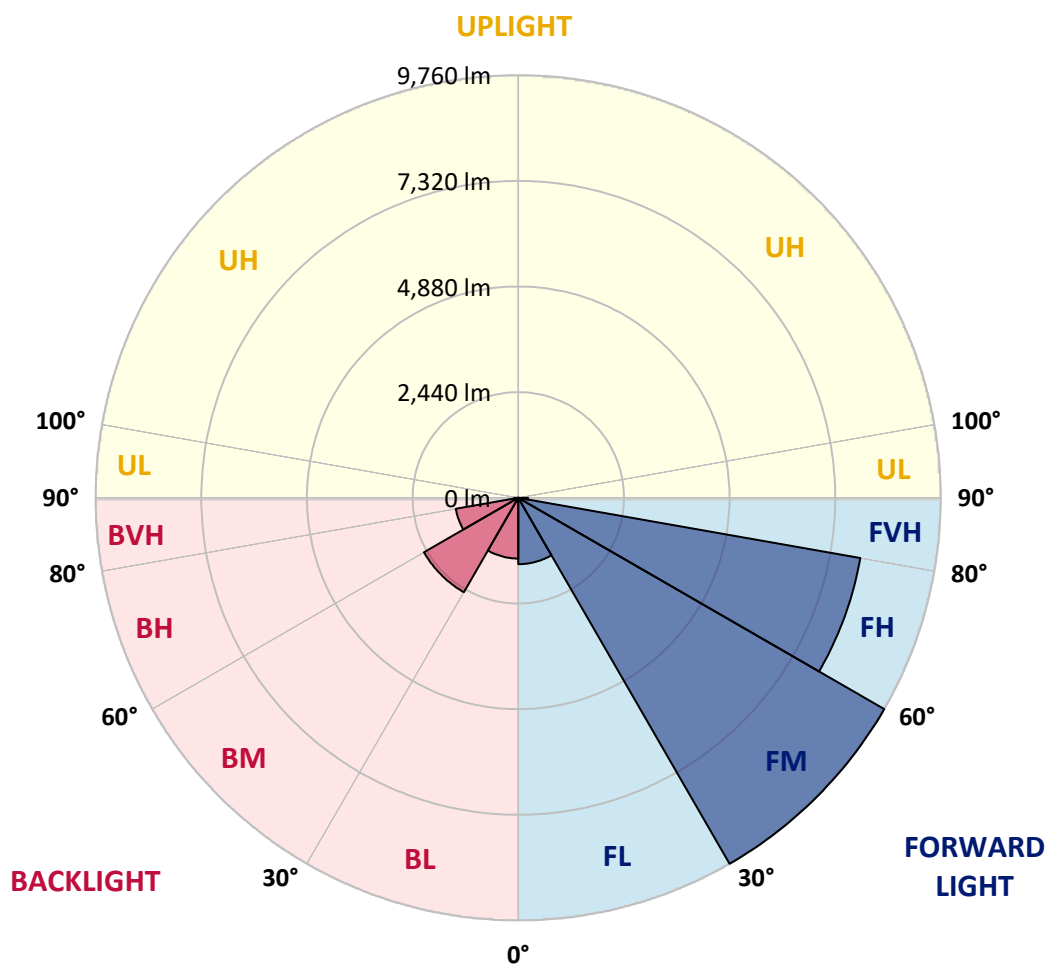
CATALOG NUMBER: NAV-SB3C-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.6	6.1			
FM	(30°-60°)	9760.4	39.0			
FH	(60°-80°)	8022.8	32.1			G4/12000
FVH	(80°-90°)	221.5	0.9			G2/225
BL	(0°-30°)	1403.6	5.6	B3/2500		
BM	(30°-60°)	2515.0	10.1	B3/5000		
BH	(60°-80°)	1464.0	5.9	B3/2500		G3/2500
BVH	(80°-90°)	95.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



REPORT NUMBER: P964606

CATALOG NUMBER: NAV-SB3C-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8
2.5°	3217.0	3215.6	3232.3	3237.5	3268.2	3289.9	3330.9	3374.5	3430.9	3437.3	3471.9
5°	3031.2	3031.2	3050.4	3070.9	3110.7	3154.1	3217.0	3292.5	3389.9	3405.3	3491.2
7.5°	2873.6	2883.8	2900.5	2940.2	2986.3	3049.2	3145.2	3252.8	3381.0	3405.3	3543.6
10°	2746.8	2758.3	2778.8	2810.9	2880.0	2967.2	3092.7	3231.0	3402.7	3441.1	3620.5
12.5°	2707.0	2718.6	2730.1	2754.5	2818.5	2921.0	3070.9	3241.3	3455.3	3493.7	3725.6
15°	2799.3	2813.4	2804.4	2798.0	2831.4	2924.8	3081.1	3278.5	3520.6	3575.7	3854.9
17.5°	3012.0	3017.1	2996.6	2936.4	2931.3	2981.2	3129.8	3329.7	3602.6	3662.8	3985.6
20°	3355.3	3346.3	3304.1	3184.9	3117.0	3106.8	3213.1	3406.6	3687.1	3751.2	4126.5
22.5°	3821.6	3811.4	3726.9	3538.5	3387.3	3287.4	3333.5	3506.5	3781.9	3853.7	4263.7
25°	4403.3	4389.2	4264.9	4008.7	3774.3	3527.0	3497.5	3638.4	3898.5	3965.1	4407.1
27.5°	5082.3	5070.8	4936.3	4598.0	4259.8	3854.9	3701.3	3793.4	4020.3	4095.8	4568.5
30°	5812.6	5845.9	5607.6	5243.7	4815.9	4282.9	3975.4	3984.4	4177.8	4245.8	4764.6
32.5°	6670.9	6728.6	6441.6	5980.4	5396.2	4747.9	4321.3	4250.9	4407.1	4463.5	5011.8
35°	7521.6	7586.9	7348.6	6838.8	6166.2	5296.3	4682.6	4557.0	4712.0	4773.5	5339.8
37.5°	8257.0	8344.1	8221.1	7777.8	6989.9	5957.3	5154.0	4917.0	5087.4	5164.3	5780.5
40°	8837.3	8970.6	8961.6	8684.9	7961.1	6759.4	5752.3	5361.6	5553.8	5637.0	6314.7
42.5°	9308.8	9424.1	9524.0	9509.9	8974.4	7670.2	6455.7	5939.4	6085.4	6181.6	6915.6
45°	9634.2	9757.2	9972.4	10204.3	9949.4	8645.2	7261.5	6624.8	6758.0	6902.8	7631.7
47.5°	9925.1	10064.7	10344.0	10711.7	10777.0	9623.9	8144.2	7422.9	7544.6	7694.6	8350.5
50°	9950.7	10071.0	10504.1	11025.5	11365.0	10564.4	9092.3	8318.5	8432.5	8592.7	9120.4
52.5°	9331.9	9521.4	10277.4	11016.6	11635.4	11351.0	10033.9	9249.9	9377.9	9570.1	9917.4
55°	7243.6	7521.6	9612.4	10673.2	11539.2	11859.6	10929.5	10240.2	10404.2	10605.3	10719.3
57.5°	6239.2	6360.8	7630.5	10048.0	11101.2	11991.5	11685.3	11240.8	11504.7	11725.1	11567.4
60°	5607.6	5708.7	6459.5	9075.7	10524.6	11782.7	12269.6	12173.4	12629.5	12892.1	12434.8
62.5°	4931.2	5027.2	5710.1	7577.9	9786.7	11435.5	12638.5	13034.4	13782.6	14069.6	13252.1
65°	4259.8	4341.8	4996.5	6367.3	8848.8	11088.3	12829.4	13778.7	14849.8	15146.9	13931.2
67.5°	3511.6	3579.5	4198.3	5371.8	7708.6	10613.0	12924.2	14364.1	15778.5	16033.6	14266.9
70°	2534.1	2586.6	3225.9	4248.3	6277.6	9795.6	12885.8	14779.3	16260.3	16464.0	14013.2
72.5°	1197.9	1245.3	1996.0	2758.3	4434.0	8204.4	12108.1	14450.0	15770.9	15669.7	12460.4
75°	639.3	680.3	1146.7	1513.0	2341.9	5624.2	9908.4	12447.6	13243.2	12751.2	9208.9
77.5°	433.1	465.0	709.7	908.4	1069.8	2669.9	6368.5	8618.3	8291.5	7479.3	4612.1
80°	343.4	376.7	581.7	615.0	517.6	964.7	2631.5	3989.5	2865.9	2292.0	1311.9
82.5°	263.9	301.0	489.4	445.9	281.9	395.9	766.1	1261.9	734.1	558.6	317.8
85°	161.4	201.1	384.4	284.4	158.9	180.6	260.0	351.1	224.2	187.1	114.0
87.5°	82.0	115.3	194.7	103.7	71.8	42.2	69.2	69.2	58.9	51.2	29.4
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: P964606

CATALOG NUMBER: NAV-SB3C-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8
2.5°	3502.6	3528.3	3571.8	3612.8	3644.9	3675.6	3706.4	3723.0	3728.1	3748.6	3760.1
5°	3543.6	3591.1	3675.6	3755.0	3805.0	3835.8	3857.5	3870.3	3872.9	3879.3	3889.6
7.5°	3619.3	3694.8	3812.7	3892.1	3929.2	3926.7	3917.8	3885.7	3872.9	3861.4	3863.9
10°	3725.6	3825.5	3970.2	4025.4	4002.3	3940.8	3861.4	3767.8	3724.3	3682.0	3669.2
12.5°	3857.5	3984.4	4126.5	4124.0	4010.0	3852.4	3668.0	3524.5	3433.4	3368.2	3352.8
15°	4017.7	4163.8	4272.6	4185.5	3935.7	3652.6	3382.2	3195.1	3113.2	3041.5	3033.8
17.5°	4182.9	4339.2	4389.2	4166.3	3748.6	3356.6	3050.4	2903.1	2822.3	2783.9	2795.5
20°	4344.4	4499.3	4458.3	4056.1	3464.2	3021.0	2748.0	2667.4	2650.6	2659.7	2655.8
22.5°	4514.7	4653.1	4472.5	3843.4	3101.6	2677.6	2527.6	2530.2	2567.4	2594.3	2600.7
25°	4689.0	4782.5	4435.3	3535.9	2712.1	2425.3	2388.0	2429.0	2502.0	2554.6	2568.6
27.5°	4856.9	4897.9	4354.6	3155.5	2377.8	2244.5	2251.0	2335.6	2445.8	2518.7	2536.7
30°	5046.4	5000.3	4199.6	2727.5	2145.9	2089.6	2143.4	2242.0	2352.2	2417.6	2432.9
32.5°	5260.4	5088.7	3953.6	2331.7	1981.9	1965.2	2053.7	2117.8	2166.4	2185.6	2195.9
35°	5526.9	5212.9	3638.4	2053.7	1834.6	1874.3	1958.9	1926.8	1907.6	1897.4	1907.6
37.5°	5872.7	5380.8	3269.4	1873.0	1715.4	1809.0	1843.6	1743.6	1668.1	1630.9	1639.9
40°	6289.1	5626.7	2914.6	1733.4	1639.9	1752.6	1692.4	1571.9	1475.9	1423.3	1427.2
42.5°	6751.7	5884.3	2616.1	1628.3	1597.6	1706.5	1581.0	1437.5	1282.4	1265.8	1282.4
45°	7237.2	6149.5	2412.4	1547.6	1577.1	1666.8	1516.9	1284.9	1174.9	1242.7	1278.6
47.5°	7722.8	6392.9	2289.4	1487.4	1566.8	1622.0	1460.5	1200.5	1122.3	1221.0	1267.0
50°	8263.3	6610.7	2234.3	1443.8	1555.3	1604.0	1376.0	1178.6	1067.2	1132.5	1181.2
52.5°	8800.1	6779.9	2193.3	1400.3	1538.6	1589.9	1335.0	1153.0	1000.6	1004.4	1031.4
55°	9335.7	6889.9	2148.5	1342.6	1501.5	1559.1	1331.1	1124.8	950.6	932.6	945.5
57.5°	9907.1	6952.8	2093.4	1278.6	1437.5	1481.0	1327.3	1103.1	935.2	905.8	909.6
60°	10488.7	7045.0	2021.6	1200.5	1351.6	1387.4	1318.3	1095.4	926.3	876.3	880.2
62.5°	11010.1	7077.0	1935.8	1126.2	1241.5	1295.2	1299.1	1089.0	901.9	816.1	816.1
65°	11352.2	6938.6	1786.0	1041.6	1122.3	1200.5	1261.9	1067.2	858.3	772.5	772.5
67.5°	11338.1	6544.1	1551.4	932.6	1007.0	1095.4	1208.2	1030.0	805.9	718.7	722.5
70°	10810.3	5765.1	1254.2	805.9	880.2	982.7	1139.0	975.0	743.0	659.8	667.5
72.5°	9271.6	4512.2	910.9	657.2	732.8	866.0	1049.3	908.4	679.0	607.3	603.4
75°	6623.6	2855.6	617.6	504.8	570.1	734.1	937.8	830.1	620.1	609.9	575.2
77.5°	3383.5	1364.4	408.7	369.0	397.2	579.1	787.9	741.8	629.0	503.5	448.4
80°	1100.5	503.5	257.5	251.1	263.9	385.6	609.9	608.5	476.6	342.0	302.4
82.5°	351.1	216.5	167.8	161.4	155.0	242.1	425.4	481.7	321.5	216.5	215.2
85°	139.6	129.4	98.6	90.9	65.3	114.0	222.9	320.3	239.5	156.3	160.1
87.5°	51.2	51.2	26.9	19.2	14.0	38.4	60.2	96.0	137.0	80.7	79.4
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)