

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: P970397

Luminaire Tested: **NAV-SB6B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37716.9 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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

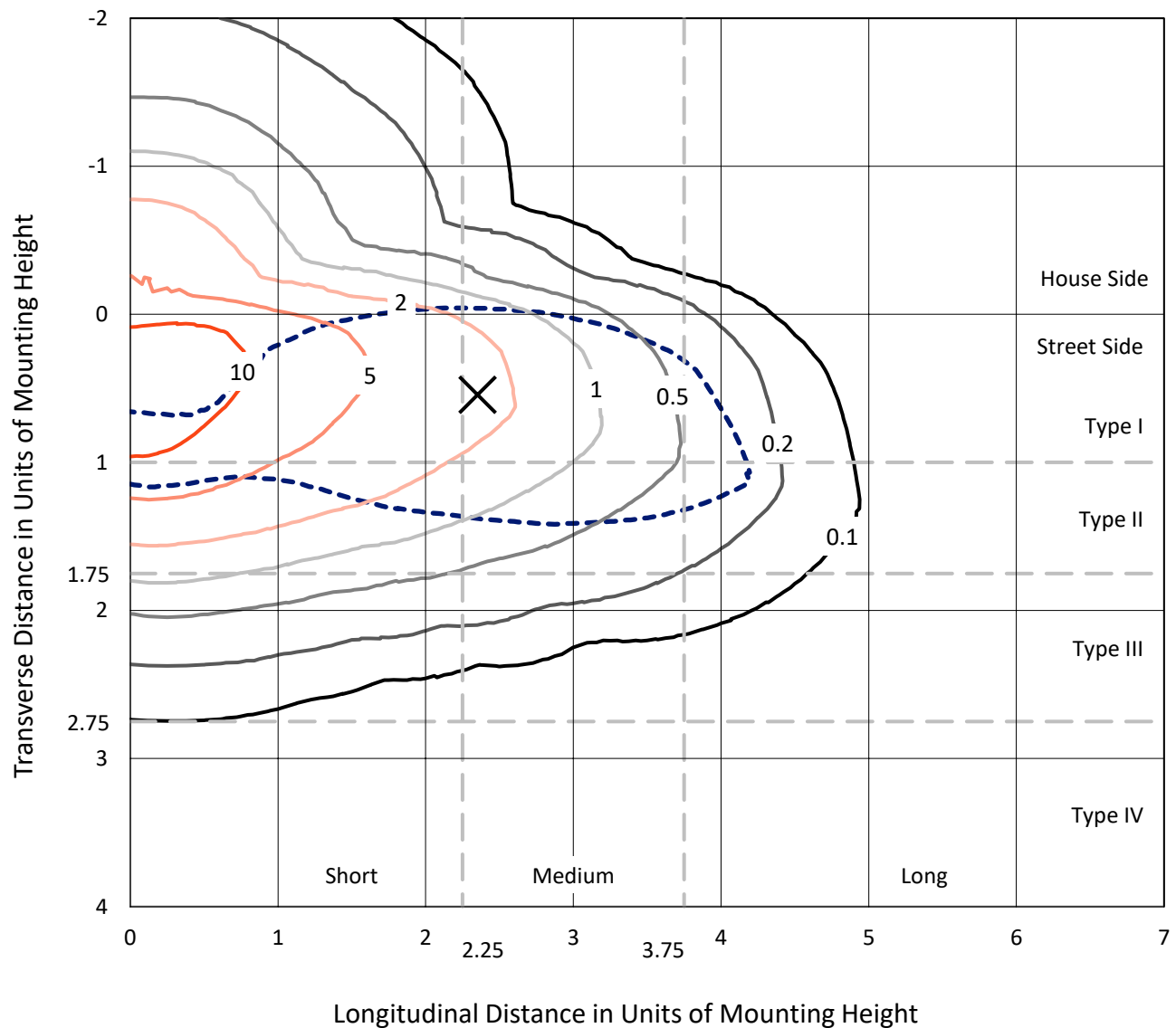


REPORT NUMBER: P970397

CATALOG NUMBER: NAV-SB6B-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

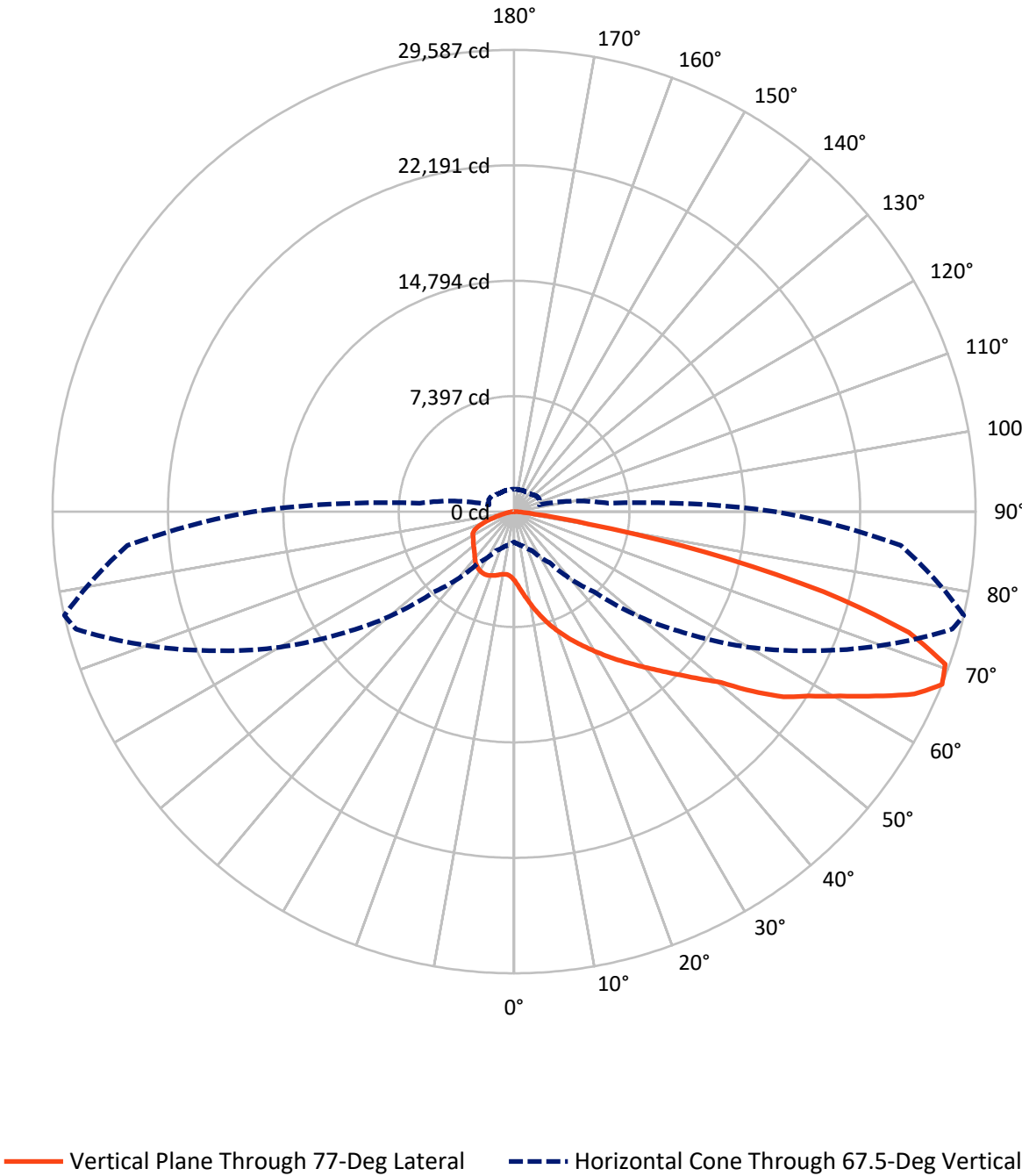
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

REPORT NUMBER: P970397
CATALOG NUMBER: NAV-SB6B-740-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7134.5	0.0	7134.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	30582.4	0.0	30582.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	37716.9	0.0	37716.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.3	1.3
10°-20°	1704.1	4.5
20°-30°	3217.5	8.5
30°-40°	5183.4	13.7
40°-50°	7089.9	18.8
50°-60°	7997.5	21.2
60°-70°	7464.7	19.8
70°-80°	4091.9	10.8
80°-90°	493.6	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°	37716.9	100.0
0°-180°	37716.9	100.0

Coefficient of Utilization



REPORT NUMBER: P970397

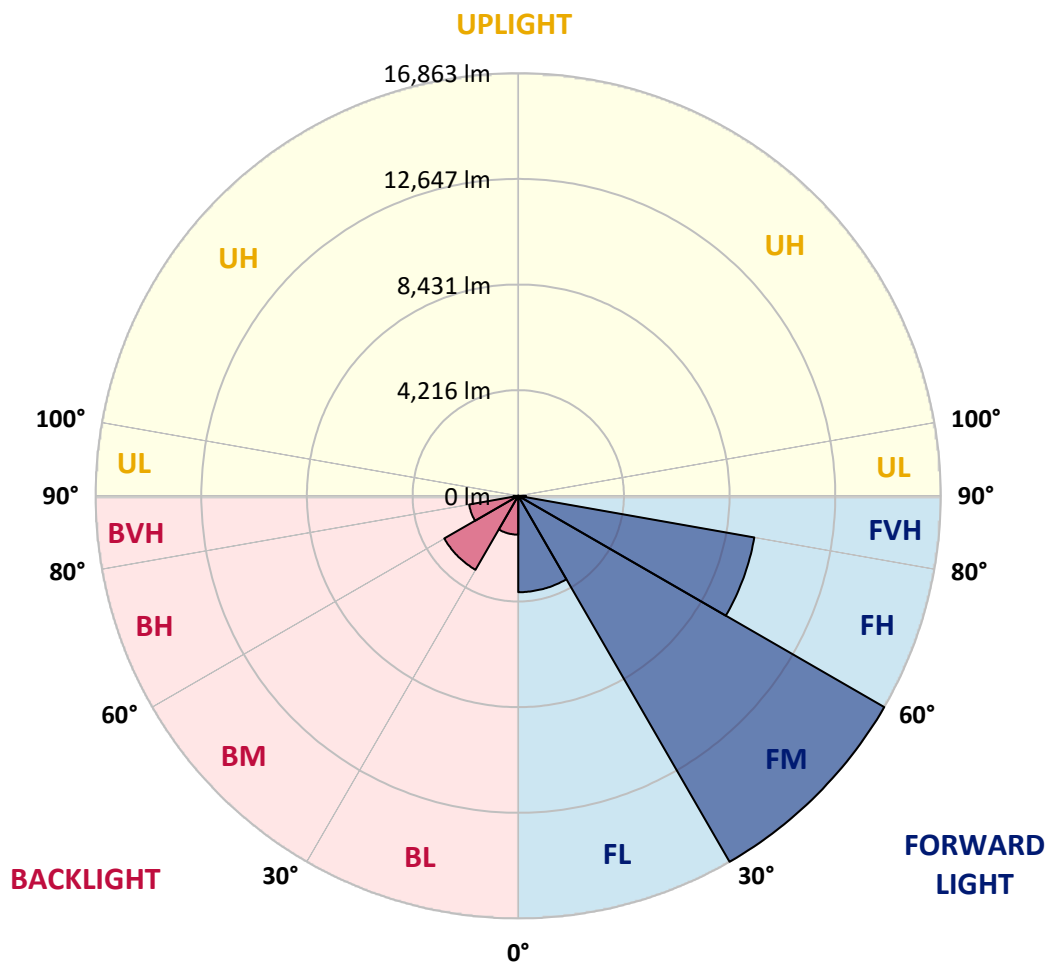
CATALOG NUMBER: NAV-SB6B-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3844.8	10.2			
FM	(30°-60°)	16862.8	44.7			
FH	(60°-80°)	9566.1	25.4			G4/12000
FVH	(80°-90°)	308.7	0.8			G3/500
BL	(0°-30°)	1551.2	4.1	B3/2500		
BM	(30°-60°)	3408.0	9.0	B3/5000		
BH	(60°-80°)	1990.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	184.9	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-G4

Type II Medium



REPORT NUMBER: P970397

CATALOG NUMBER: NAV-SB6B-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3
2.5°	5540.9	5579.9	5531.2	5531.2	5367.7	5282.0	5118.4	4993.9	4769.9	4731.0	4583.1
5°	6549.4	6598.1	6530.0	6500.8	6308.1	6130.8	5856.3	5585.7	5186.6	5145.7	4797.2
7.5°	7330.2	7392.5	7332.1	7301.0	7129.7	6931.0	6609.8	6232.1	5669.5	5589.6	5085.3
10°	7966.8	7976.6	7957.1	7968.8	7834.5	7670.9	7341.9	6901.8	6199.0	6090.0	5433.8
12.5°	8327.0	8371.8	8410.7	8480.8	8457.5	8356.2	8060.3	7534.6	6759.8	6619.6	5813.5
15°	8496.4	8574.2	8661.9	8823.5	8953.9	8979.2	8753.4	8214.0	7330.2	7160.8	6197.0
17.5°	8556.7	8630.7	8769.0	9002.6	9282.9	9471.8	9370.6	8874.1	7894.8	7700.1	6600.1
20°	8862.5	8883.9	8967.5	9189.5	9493.2	9806.7	9882.6	9508.8	8453.6	8233.5	7016.7
22.5°	9516.6	9473.8	9497.1	9598.3	9816.4	10120.1	10293.4	10069.5	9027.9	8774.8	7437.3
25°	10597.2	10472.5	10347.9	10231.1	10342.0	10513.4	10710.0	10630.3	9629.5	9308.2	7861.6
27.5°	11962.0	11810.0	11535.6	11152.0	11017.6	11078.0	11165.6	11150.1	10186.3	9861.2	8299.7
30°	13305.3	13128.1	12801.0	12246.2	11891.8	11732.2	11666.0	11621.2	10791.8	10445.3	8741.7
32.5°	14378.1	14237.9	13916.6	13295.6	12781.5	12509.0	12289.0	12129.3	11424.5	11078.0	9209.0
35°	15316.5	15186.0	14818.1	14140.5	13581.8	13291.7	13003.6	12662.8	12082.6	11732.2	9711.3
37.5°	16173.2	16042.7	15538.4	14833.6	14271.0	14070.5	13813.4	13235.2	12742.6	12411.6	10242.8
40°	16714.4	16685.2	16214.1	15415.8	14831.6	14732.4	14646.7	13899.1	13474.6	13167.0	10826.9
42.5°	16852.6	16916.9	16543.1	15886.9	15330.1	15250.3	15450.8	14650.6	14296.3	14002.3	11488.8
45°	16519.7	16704.6	16459.3	16013.5	15684.4	15641.6	16163.4	15472.3	15205.5	14936.8	12287.1
47.5°	15676.7	15990.1	15888.8	15826.6	15779.9	15964.8	16790.3	16344.4	16235.4	16001.8	13198.2
50°	13975.1	14568.8	14746.1	15139.4	15591.0	16216.0	17360.7	17296.5	17438.6	17203.1	14308.0
52.5°	11033.2	11850.9	12878.9	13864.0	15010.8	16132.3	17987.6	18663.2	19262.9	19134.4	16071.9
55°	9107.7	9475.7	10266.2	12072.9	13885.5	15779.9	18270.0	19767.1	21073.6	20958.7	17409.4
57.5°	7628.0	7957.1	8443.8	9952.6	12183.9	14979.7	18445.2	20440.8	22313.7	22302.1	18729.4
60°	6041.3	6389.8	6888.2	7957.1	10196.1	13597.3	18406.2	21207.9	23896.5	23993.9	20339.6
62.5°	4250.2	4633.7	5186.6	6183.4	8165.5	11806.2	17612.0	21762.8	25759.8	26024.5	22276.7
65°	2793.8	3046.9	3463.6	4324.2	6084.2	9503.0	16095.3	21834.8	27753.4	28201.2	24095.2
67.5°	1958.6	2055.9	2301.2	2768.5	4010.7	7287.3	13679.1	21089.2	29083.2	29587.4	24883.7
70°	1528.4	1577.0	1701.6	1888.6	2519.3	4900.4	10482.3	19150.0	28798.9	29324.6	24060.1
72.5°	1320.0	1366.7	1413.5	1436.8	1689.9	3025.5	7100.5	16011.5	26121.9	26478.2	20919.7
75°	1197.4	1209.1	1247.9	1240.1	1288.8	1962.5	4098.3	11666.0	20610.2	20487.5	15443.1
77.5°	1006.6	1022.1	1086.4	1076.7	1144.8	1341.4	2128.0	7528.7	13361.8	12528.5	8595.6
80°	852.8	860.6	930.6	918.9	994.9	971.5	1086.4	3837.4	5667.5	4801.1	2478.4
82.5°	295.9	366.0	710.6	732.1	759.3	587.9	626.9	1565.4	1730.8	1325.8	519.9
85°	144.1	153.9	362.1	514.0	512.1	295.9	305.7	558.7	545.1	428.3	173.3
87.5°	23.4	29.2	42.8	200.5	159.7	77.9	105.2	109.1	113.0	97.4	38.9
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: P970397

CATALOG NUMBER: NAV-SB6B-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3
2.5°	4474.0	4376.6	4172.3	3983.5	3835.4	3693.3	3613.5	3545.4	3506.4	3498.6	3498.6
5°	4594.8	4394.2	4022.3	3708.9	3504.5	3352.6	3272.8	3222.2	3196.9	3181.3	3179.3
7.5°	4768.0	4474.0	3944.5	3588.2	3374.0	3265.0	3224.1	3216.3	3214.4	3216.3	3222.2
10°	5007.5	4604.5	3936.7	3559.0	3379.8	3319.5	3317.5	3319.5	3327.3	3329.2	3331.1
12.5°	5266.4	4738.8	3967.9	3584.3	3453.8	3420.7	3414.9	3412.9	3418.8	3422.7	3424.6
15°	5548.7	4916.0	4020.4	3638.9	3535.6	3500.6	3494.7	3483.1	3481.1	3479.2	3477.2
17.5°	5838.8	5091.2	4078.8	3697.2	3588.2	3539.5	3518.1	3490.8	3469.4	3463.6	3469.4
20°	6132.8	5264.5	4119.7	3726.4	3592.1	3524.0	3481.1	3434.4	3397.4	3375.9	3383.7
22.5°	6446.3	5445.5	4145.0	3718.6	3557.1	3463.6	3385.7	3331.1	3274.8	3237.8	3239.7
25°	6752.0	5603.3	4143.0	3677.7	3488.9	3370.1	3270.9	3200.8	3122.9	3083.9	3083.9
27.5°	7046.0	5745.4	4094.4	3605.7	3391.5	3259.2	3140.4	3056.7	2980.7	2943.8	2941.9
30°	7349.7	5864.1	4018.4	3500.6	3276.7	3130.7	3000.2	2928.2	2860.1	2825.0	2823.1
32.5°	7651.4	5973.2	3911.4	3370.1	3144.3	3004.1	2875.6	2809.4	2768.5	2768.5	2770.5
35°	7970.7	6049.1	3769.2	3218.3	3004.1	2869.8	2768.5	2729.6	2725.7	2702.3	2696.5
37.5°	8307.5	6097.8	3596.0	3062.5	2865.9	2739.3	2708.2	2661.4	2622.5	2571.9	2564.1
40°	8661.9	6146.4	3387.6	2901.0	2719.8	2649.7	2636.1	2573.9	2462.9	2338.2	2320.7
42.5°	9092.2	6179.5	3171.6	2739.3	2566.1	2542.7	2562.2	2455.1	2277.9	2184.5	2186.4
45°	9590.6	6234.0	2972.9	2579.7	2408.3	2408.3	2490.1	2349.9	2204.0	2145.5	2155.3
47.5°	10237.0	6360.6	2788.0	2404.4	2262.4	2301.2	2330.4	2223.4	2141.6	2069.6	2067.6
50°	11171.5	6664.3	2597.2	2227.3	2151.4	2229.3	2188.4	2126.1	2030.6	1972.2	1966.4
52.5°	12331.9	6843.4	2427.8	2067.6	2055.9	2133.8	2075.4	2017.0	1944.9	1867.1	1851.6
55°	13122.3	6876.5	2285.6	1950.8	1991.7	1983.9	1962.5	1910.0	1871.0	1767.8	1769.8
57.5°	14006.2	6942.7	2168.9	1880.8	1950.8	1865.2	1857.4	1812.6	1762.0	1691.9	1668.5
60°	15063.4	7046.0	2067.6	1853.5	1915.8	1787.3	1748.3	1730.8	1680.2	1645.1	1654.9
62.5°	16216.0	7139.4	1964.4	1857.4	1874.9	1711.3	1652.9	1647.1	1615.9	1604.2	1604.2
65°	17002.5	6884.3	1836.0	1853.5	1810.7	1633.4	1559.5	1557.6	1532.3	1528.4	1526.4
67.5°	16728.0	6076.4	1662.7	1799.0	1744.4	1555.6	1473.8	1466.1	1432.9	1434.9	1434.9
70°	15353.5	4923.8	1423.2	1664.6	1662.7	1485.5	1384.3	1358.9	1314.2	1321.9	1329.7
72.5°	12775.7	3648.6	1102.0	1440.7	1532.3	1421.3	1281.0	1240.1	1183.8	1191.6	1189.6
75°	9226.5	2480.4	802.2	1096.1	1333.6	1345.3	1179.9	1109.8	1041.6	1053.3	1057.2
77.5°	4721.3	1405.7	589.9	755.4	1047.4	1222.6	1088.3	994.9	979.3	1088.3	1072.8
80°	1540.1	704.8	408.9	529.5	687.3	1000.7	954.0	847.0	843.1	868.4	745.7
82.5°	459.5	297.9	262.8	348.5	379.7	767.1	823.6	640.5	550.9	580.2	599.6
85°	157.7	144.1	150.0	173.3	181.0	449.8	576.3	424.5	401.1	442.0	436.1
87.5°	37.0	50.6	42.8	38.9	38.9	109.1	223.9	177.1	245.3	163.6	157.7
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)