

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: P966746

Luminaire Tested: **NAV-SB4C-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32570.4 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

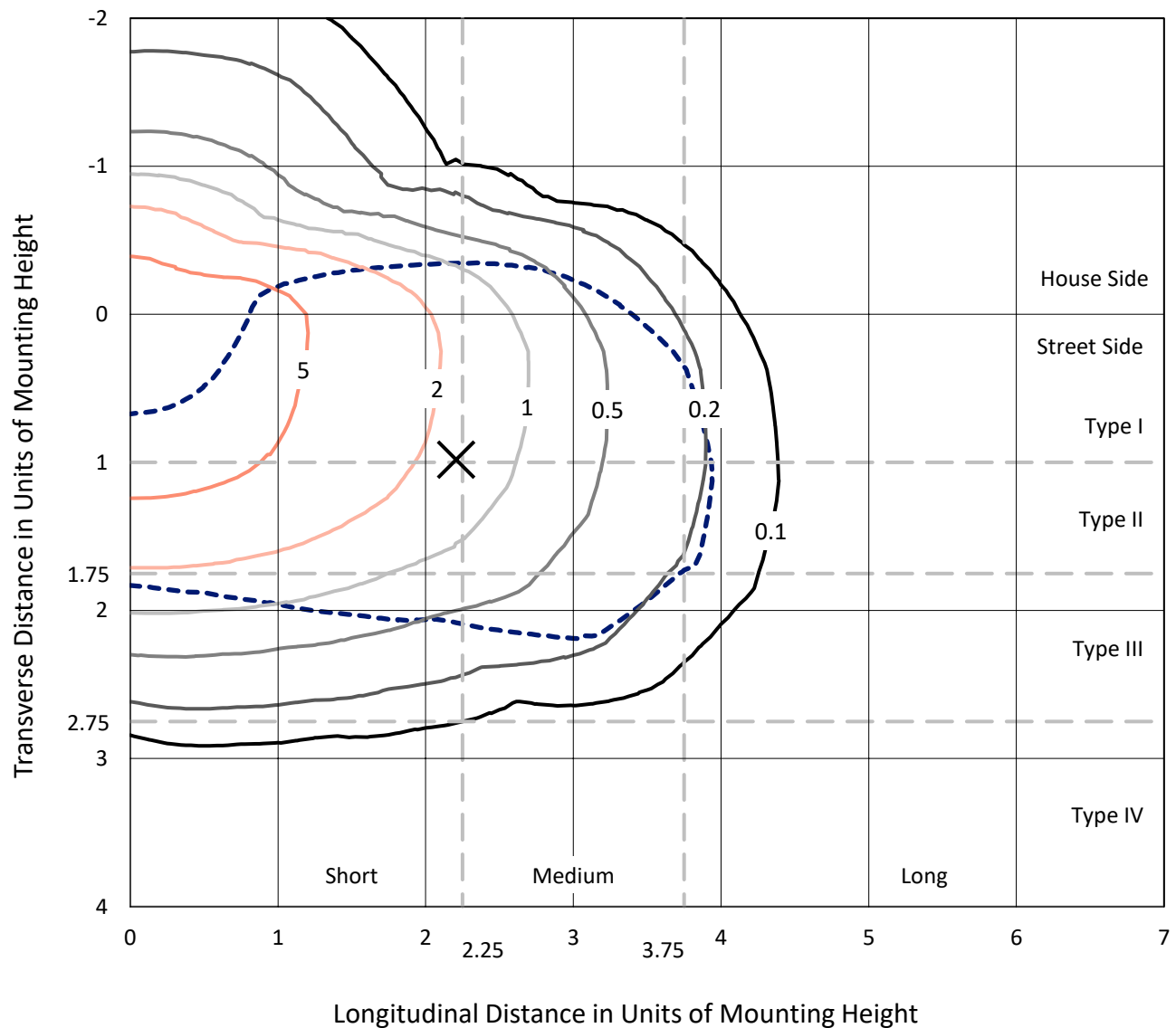
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966746
CATALOG NUMBER: NAV-SB4C-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

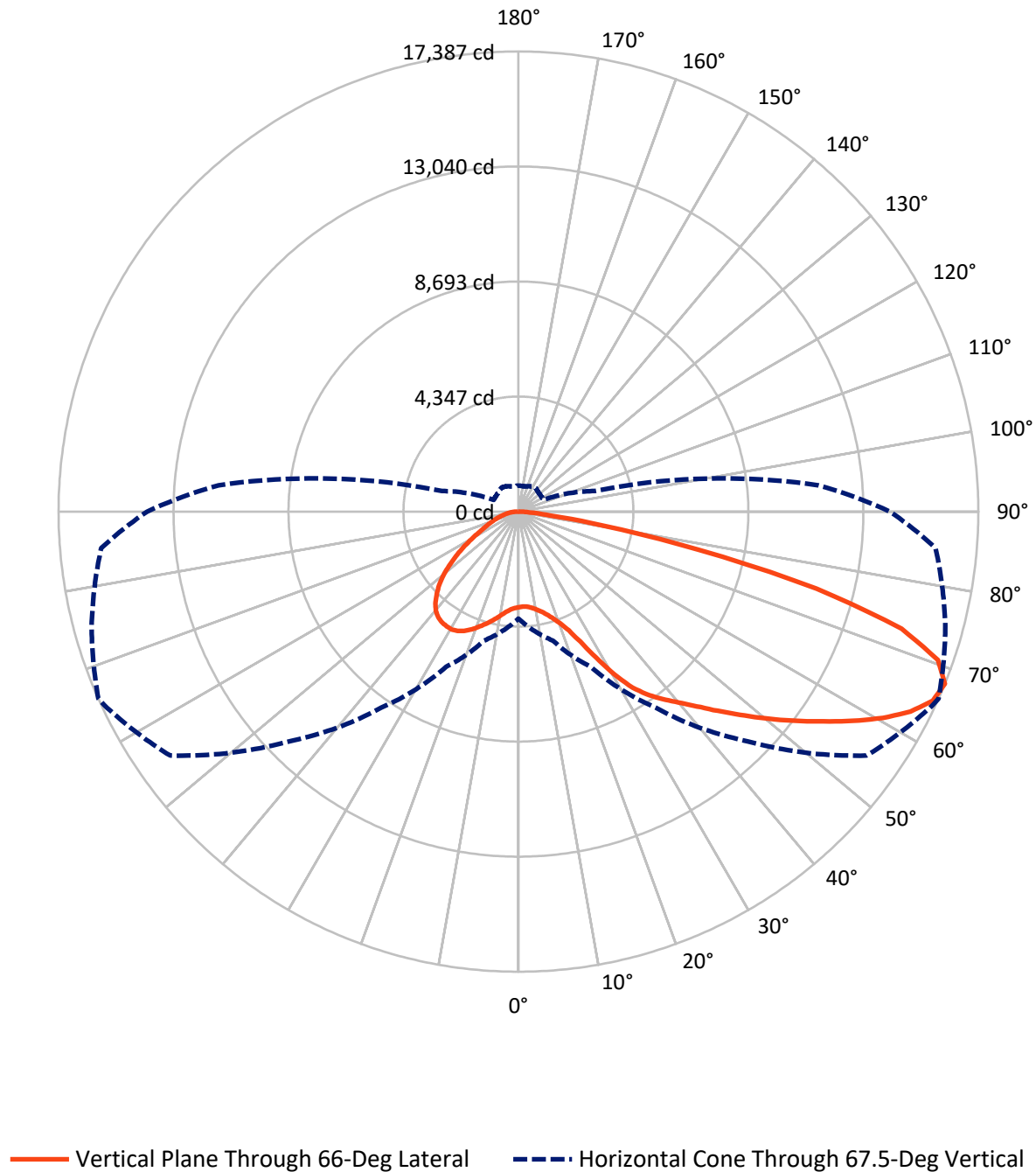
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Short - N/A

REPORT NUMBER: P966746
CATALOG NUMBER: NAV-SB4C-750-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8098.5	0.0	8098.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24471.9	0.0	24471.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	32570.4	0.0	32570.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	1.1
10°-20°	1183.3	3.6
20°-30°	2280.8	7.0
30°-40°	3999.1	12.3
40°-50°	5945.3	18.3
50°-60°	7536.3	23.1
60°-70°	7374.0	22.6
70°-80°	3517.5	10.8
80°-90°	375.9	1.2
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°	32570.4	100.0
0°-180°	32570.4	100.0

Coefficient of Utilization



REPORT NUMBER: P966746

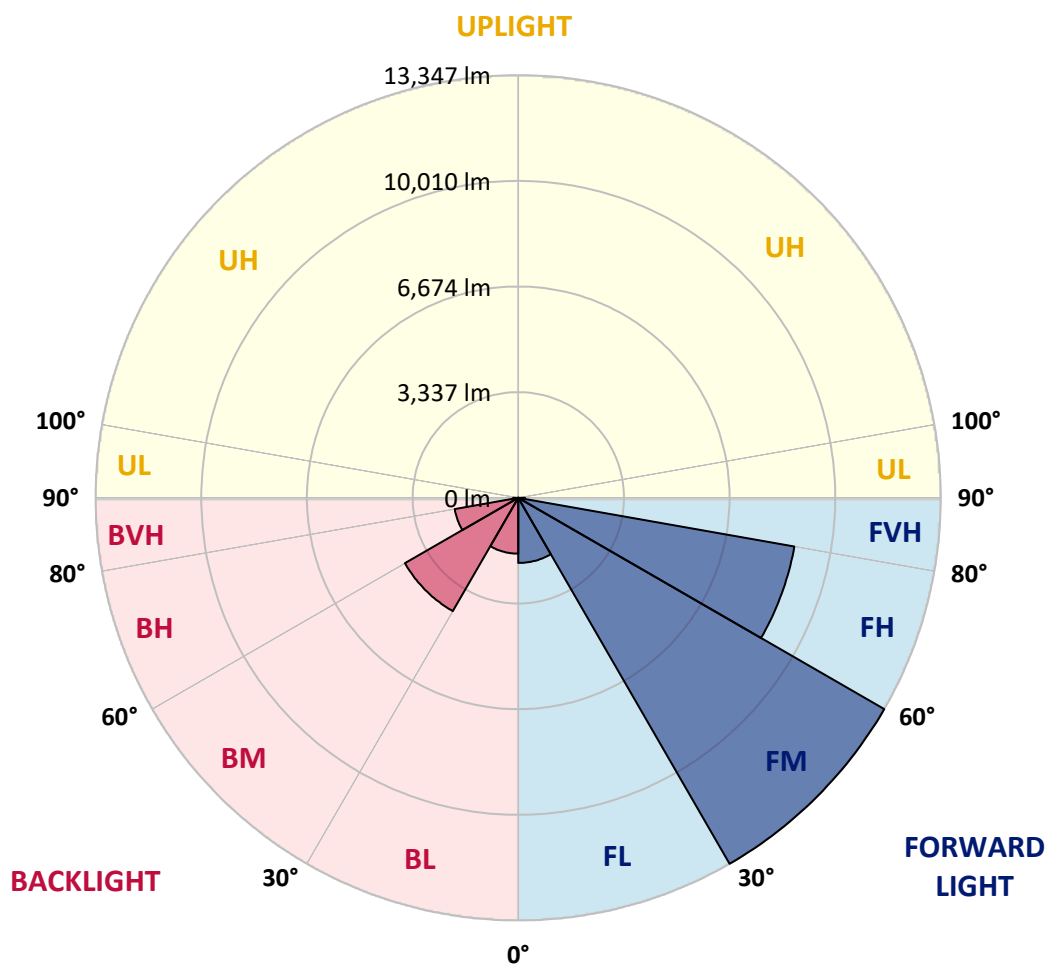
CATALOG NUMBER: NAV-SB4C-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.1	6.3			
FM	(30°-60°)	13347.1	41.0			
FH	(60°-80°)	8853.5	27.2			G4/12000
FVH	(80°-90°)	213.1	0.7			G2/225
BL	(0°-30°)	1764.2	5.4	B3/2500		
BM	(30°-60°)	4133.6	12.7	B3/5000		
BH	(60°-80°)	2038.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	162.8	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 III Short



REPORT NUMBER: P966746

CATALOG NUMBER: NAV-SB4C-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5
2.5°	3574.8	3595.4	3590.3	3581.7	3580.0	3583.4	3588.5	3593.6	3591.9	3600.5	3614.2
5°	3564.5	3585.1	3583.4	3583.4	3590.3	3603.9	3612.5	3621.0	3612.5	3622.8	3641.6
7.5°	3571.4	3586.8	3593.6	3600.5	3617.6	3643.3	3663.9	3682.6	3672.4	3684.4	3708.3
10°	3658.7	3670.6	3677.5	3677.5	3689.5	3718.6	3739.1	3773.3	3764.8	3783.6	3814.4
12.5°	3817.8	3829.8	3829.8	3822.9	3831.6	3850.3	3857.2	3894.9	3879.4	3910.3	3941.0
15°	4012.9	4036.9	4018.1	4006.1	4009.5	4028.4	4026.6	4055.7	4040.3	4066.0	4093.3
17.5°	4228.5	4259.4	4228.5	4226.8	4220.0	4240.5	4242.3	4267.9	4240.5	4259.4	4278.1
20°	4483.6	4526.3	4500.7	4509.2	4493.8	4502.3	4510.9	4548.5	4505.8	4519.4	4514.3
22.5°	4842.9	4894.3	4866.8	4899.4	4889.0	4882.3	4880.5	4947.3	4880.5	4885.7	4836.1
25°	5366.5	5428.1	5380.2	5424.7	5424.7	5447.0	5472.7	5558.2	5447.0	5414.5	5286.1
27.5°	6140.1	6201.7	6107.6	6134.9	6126.3	6181.1	6153.7	6366.0	6246.1	6193.0	5934.6
30°	7071.0	7180.4	7002.5	6995.6	6987.1	7074.3	7113.7	7254.0	7132.6	7079.5	6768.1
32.5°	8077.2	8191.8	7979.6	7918.0	7885.5	7938.6	7906.0	8019.0	7935.1	7853.0	7467.9
35°	9141.6	9254.5	9052.6	8932.8	8802.8	8691.5	8575.2	8604.3	8525.5	8400.6	8001.9
37.5°	10147.8	10354.9	10140.9	10012.6	9773.1	9555.8	9230.5	9095.4	9021.8	8907.1	8505.0
40°	11172.9	11291.0	11128.4	11018.9	10758.7	10418.2	9898.0	9612.2	9512.9	9401.7	9061.2
42.5°	11927.5	12040.5	11953.2	11877.9	11674.2	11279.0	10606.4	10248.8	10105.1	9980.1	9690.9
45°	12526.5	12610.4	12555.5	12583.0	12495.7	12112.3	11340.6	10931.6	10782.7	10630.4	10402.8
47.5°	12767.8	12856.8	12944.0	13106.6	13255.5	12973.1	12129.4	11670.9	11513.4	11357.7	11133.6
50°	12740.4	12831.1	13084.3	13430.1	13892.0	13797.9	12961.1	12458.1	12312.6	12134.6	11927.5
52.5°	12521.4	12624.0	12949.1	13524.2	14260.0	14415.7	13808.2	13270.9	13133.9	12921.8	12714.7
55°	11946.4	12008.0	12495.7	13310.2	14347.2	14846.9	14638.2	14136.8	13999.9	13703.8	13477.9
57.5°	10880.3	10969.2	11679.4	12733.6	14128.2	15139.6	15367.2	15047.2	14915.4	14489.3	14253.1
60°	9488.9	9631.0	10443.8	11764.9	13570.4	15137.9	16029.5	15942.1	15832.7	15262.8	15016.4
62.5°	7914.6	8078.9	8860.9	10396.0	12594.9	14708.3	16443.6	16691.7	16635.2	15976.4	15661.5
65°	6078.5	6191.4	6970.0	8624.8	11077.1	13785.9	16491.5	17203.4	17213.6	16518.9	15998.6
67.5°	4047.1	4372.2	5048.2	6472.1	9044.1	12278.4	16070.6	17287.2	17386.5	16705.4	15829.3
70°	1974.8	2402.6	3064.9	4206.3	6472.1	9966.4	14970.2	16599.3	16820.0	16161.2	14819.6
72.5°	819.7	958.3	1319.4	2075.7	3715.2	6725.3	12759.2	14734.1	15143.0	14319.9	12459.7
75°	552.8	598.9	754.7	1064.4	1692.5	3316.4	9201.5	10986.4	11645.2	10815.2	8840.4
77.5°	426.1	455.2	549.3	744.4	1006.2	1254.4	4925.0	6620.9	6961.4	6444.7	4599.9
80°	335.4	357.6	410.7	542.4	713.6	670.9	1678.7	2999.9	3196.7	2681.6	1478.6
82.5°	290.9	299.5	294.4	367.9	474.1	391.9	551.0	1107.2	1221.8	886.4	482.6
85°	210.5	234.4	244.7	227.6	251.5	198.5	225.9	391.9	431.2	385.0	272.1
87.5°	85.6	126.6	155.7	147.2	92.5	56.5	70.2	114.7	131.8	143.7	89.0
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: P966746

CATALOG NUMBER: NAV-SB4C-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5
2.5°	3615.9	3627.9	3636.5	3646.7	3653.5	3663.9	3684.4	3696.4	3698.1	3706.6	3704.9
5°	3648.4	3665.5	3684.4	3711.7	3742.6	3768.2	3807.6	3834.9	3845.2	3853.8	3852.1
7.5°	3718.6	3742.6	3776.8	3824.7	3869.2	3903.4	3951.3	3983.9	4016.4	4028.4	4030.0
10°	3822.9	3857.2	3906.8	3971.9	4019.7	4064.2	4113.9	4141.3	4173.8	4187.4	4194.3
12.5°	3953.0	3989.0	4054.0	4144.7	4189.2	4220.0	4237.1	4230.3	4237.1	4249.0	4252.5
15°	4101.9	4141.3	4214.9	4312.4	4343.2	4315.9	4278.1	4243.9	4238.8	4242.3	4254.3
17.5°	4278.1	4307.3	4392.8	4474.9	4452.7	4339.7	4257.6	4202.9	4175.5	4166.9	4178.9
20°	4524.6	4524.6	4594.8	4646.1	4497.2	4305.5	4177.2	4088.2	4031.7	4007.7	4002.6
22.5°	4824.1	4796.7	4841.2	4805.2	4488.7	4209.7	4031.7	3877.8	3792.2	3758.0	3752.8
25°	5203.9	5171.4	5159.4	4937.0	4427.1	4057.5	3768.2	3581.7	3506.4	3487.6	3490.9
27.5°	5777.2	5695.1	5539.4	5008.9	4314.1	3817.8	3460.2	3287.4	3244.5	3246.3	3251.4
30°	6540.4	6376.2	5994.6	5020.9	4129.3	3479.1	3145.3	3022.1	3001.6	3010.1	3039.2
32.5°	7247.3	7091.5	6460.1	4966.1	3845.2	3147.1	2862.9	2780.8	2750.0	2760.3	2774.0
35°	7801.7	7758.9	6891.3	4889.0	3496.2	2835.6	2609.6	2539.5	2479.6	2465.9	2476.2
37.5°	8325.4	8308.2	7214.7	4781.3	3150.4	2614.8	2406.1	2313.6	2226.4	2178.4	2180.2
40°	8900.3	8883.2	7426.9	4615.3	2844.2	2423.2	2222.9	2101.5	1993.6	1906.4	1914.9
42.5°	9547.2	9446.2	7527.9	4377.5	2584.0	2260.5	2074.1	1909.8	1767.7	1687.4	1692.5
45°	10253.9	10026.3	7526.2	4074.6	2365.0	2111.7	1914.9	1682.1	1550.4	1475.1	1471.7
47.5°	11003.5	10580.8	7433.7	3739.1	2152.8	1947.4	1668.5	1490.6	1403.2	1357.0	1346.7
50°	11776.9	11099.3	7276.3	3354.1	1935.4	1760.8	1514.4	1393.0	1326.2	1283.4	1268.0
52.5°	12504.3	11569.9	7086.3	2917.7	1714.7	1579.5	1446.1	1351.9	1281.8	1233.8	1213.3
55°	13180.2	11975.5	6817.7	2471.1	1535.0	1458.0	1413.5	1334.8	1254.4	1197.9	1175.7
57.5°	13780.8	12239.0	6354.0	2051.8	1406.7	1374.1	1379.2	1305.7	1213.3	1165.4	1134.6
60°	14280.5	12432.3	5667.7	1663.4	1302.3	1292.0	1326.2	1250.9	1143.1	1088.3	1064.4
62.5°	14580.0	12428.9	4825.8	1362.1	1213.3	1216.7	1256.0	1182.4	1073.0	1021.6	1006.2
65°	14554.4	12124.3	3901.7	1165.4	1127.7	1131.2	1182.4	1107.2	1014.7	984.0	982.3
67.5°	14039.2	11381.6	2993.0	1037.0	1033.6	1049.0	1108.9	1055.9	978.9	975.4	980.5
70°	12644.6	9839.8	2156.2	934.4	936.0	958.3	1037.0	1023.4	960.0	966.9	965.1
72.5°	10139.3	7502.2	1447.7	826.6	828.3	864.2	968.6	997.6	941.2	1031.9	1045.6
75°	6752.7	4678.6	930.9	711.9	713.6	759.8	908.7	948.0	889.9	1028.5	1037.0
77.5°	3244.5	2103.2	674.2	598.9	598.9	641.8	785.5	848.8	758.1	799.2	732.5
80°	1120.8	790.6	530.5	482.6	472.3	501.4	662.3	735.8	653.7	602.4	564.7
82.5°	441.5	410.7	426.1	374.7	340.5	359.4	515.1	607.5	480.8	434.7	433.0
85°	253.3	266.9	301.1	248.2	196.8	220.8	378.2	436.3	362.7	320.0	326.9
87.5°	68.5	94.1	138.6	128.3	89.0	94.1	179.7	241.3	208.8	160.8	165.9
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)