

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: P970315

Luminaire Tested: **NAV-SB6B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32401.3 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

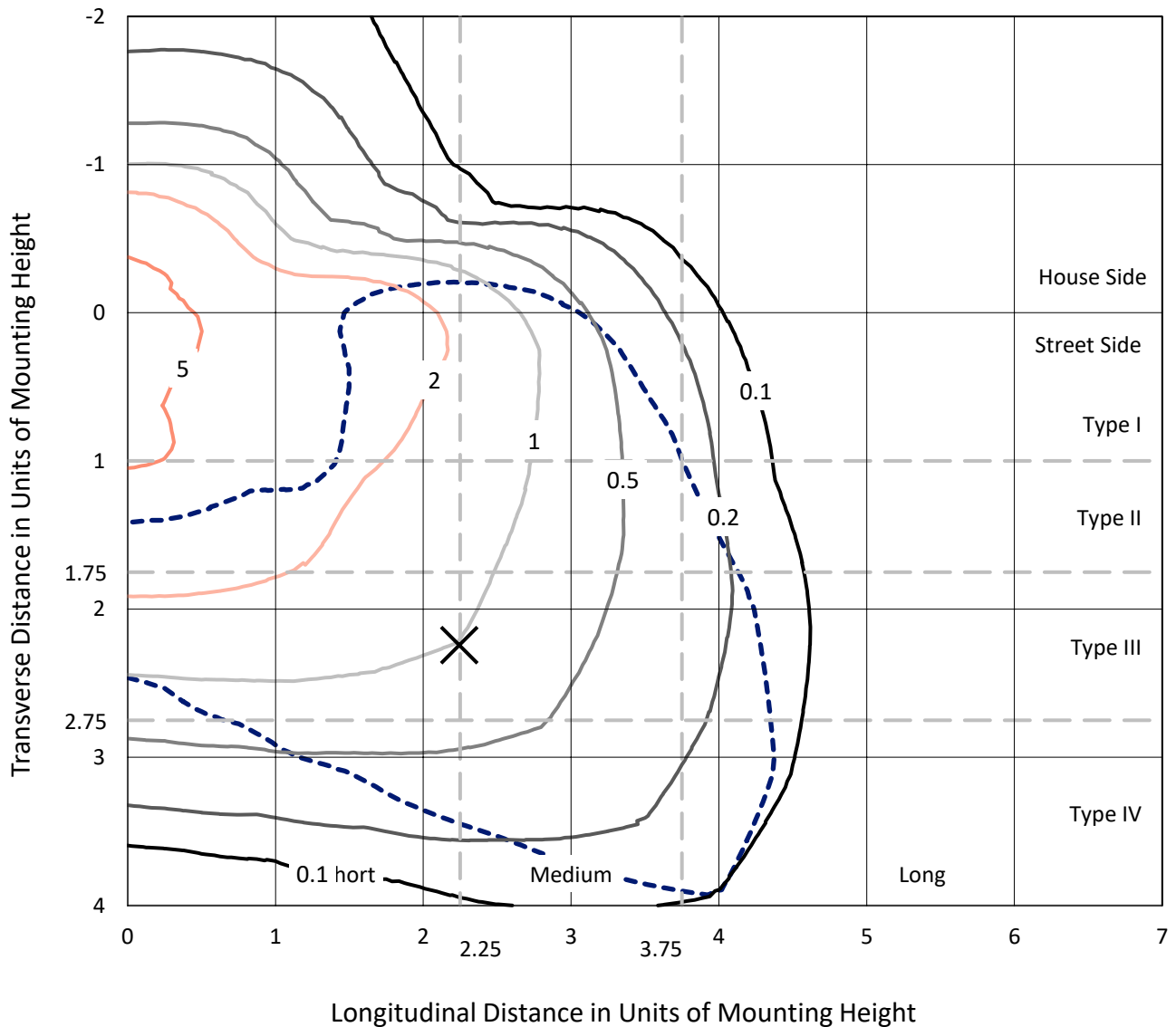
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

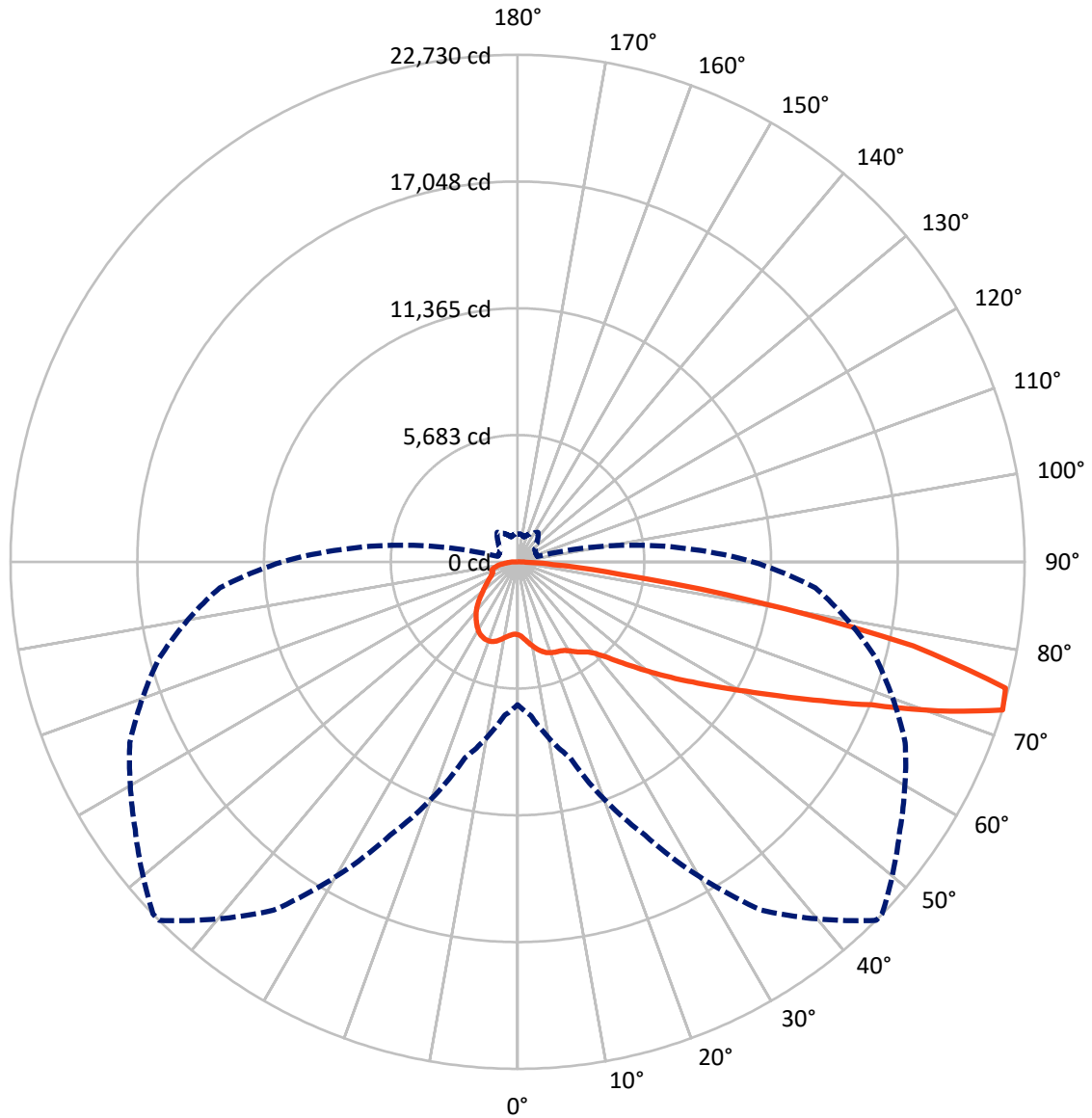
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7324.8	0.0	7324.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25076.5	0.0	25076.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	32401.3	0.0	32401.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	1.0
10°-20°	1109.2	3.4
20°-30°	1929.5	6.0
30°-40°	2766.1	8.5
40°-50°	3894.8	12.0
50°-60°	5965.7	18.4
60°-70°	8642.3	26.7
70°-80°	6901.4	21.3
80°-90°	859.5	2.7
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°	32401.3	100.0
0°-180°	32401.3	100.0

Coefficient of Utilization

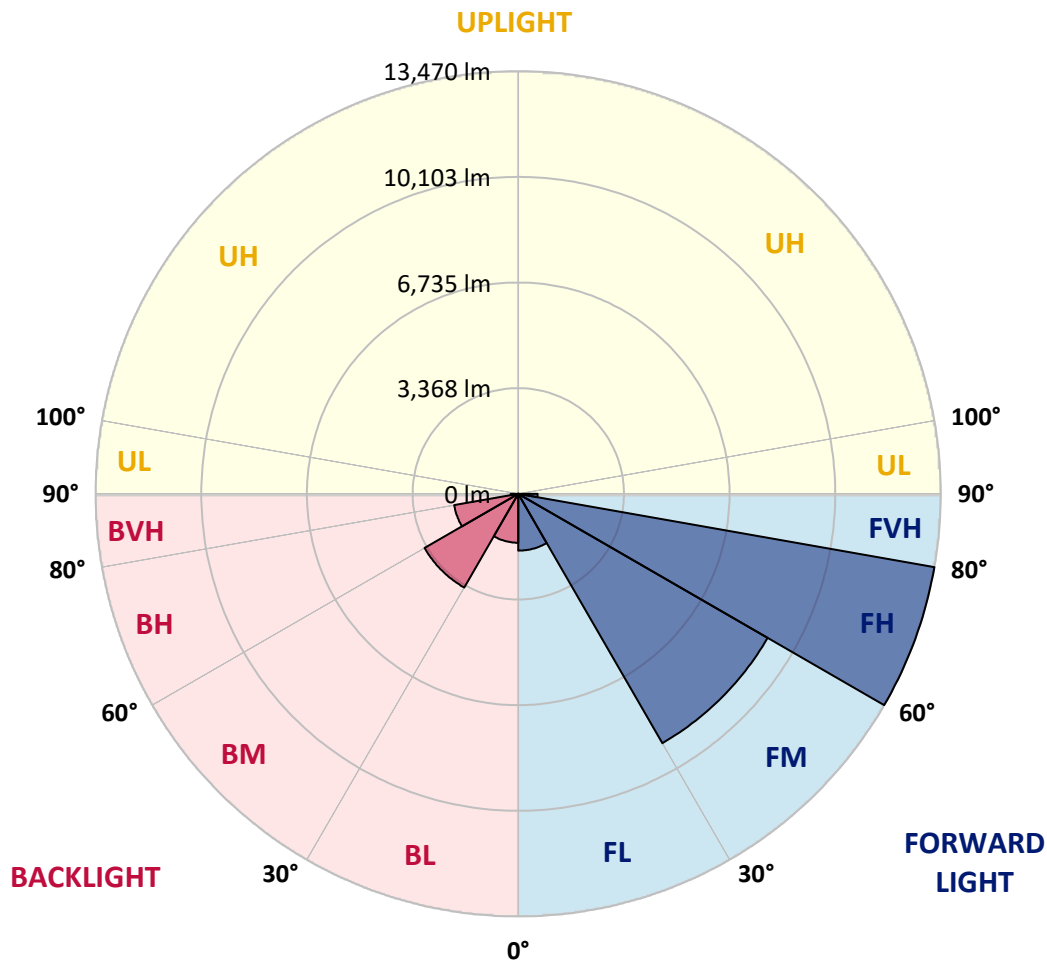


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.9	5.6			
FM (30°-60°)	9177.7	28.3			
FH (60°-80°)	13470.2	41.6			G5
FVH (80°-90°)	616.6	1.9			G4/750
BL (0°-30°)	1559.5	4.8	B3/2500		
BM (30°-60°)	3448.9	10.6	B3/5000		
BH (60°-80°)	2073.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	242.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6
2.5°	3396.6	3418.9	3398.4	3379.6	3371.0	3348.9	3347.1	3333.5	3325.0	3301.1	3294.2
5°	3633.9	3662.9	3628.8	3591.3	3557.2	3502.5	3495.7	3456.4	3412.0	3360.9	3331.8
7.5°	3901.9	3927.5	3888.2	3832.0	3772.2	3681.7	3680.1	3608.3	3538.3	3451.3	3401.8
10°	4135.8	4169.9	4117.0	4040.1	3965.1	3862.6	3850.7	3768.7	3680.1	3567.4	3492.3
12.5°	4342.3	4366.2	4314.9	4221.1	4134.0	4031.6	4016.3	3925.9	3826.8	3698.8	3603.2
15°	4506.1	4536.9	4468.6	4367.8	4275.7	4175.0	4161.4	4079.4	3980.4	3845.6	3722.7
17.5°	4613.6	4639.3	4569.2	4456.6	4367.8	4284.3	4274.0	4205.8	4118.7	3982.1	3850.7
20°	4654.6	4682.0	4608.5	4494.2	4412.2	4347.4	4342.3	4292.8	4233.0	4108.4	3975.3
22.5°	4695.6	4721.3	4625.6	4506.1	4434.5	4393.5	4391.8	4359.3	4335.4	4233.0	4103.3
25°	4861.2	4868.0	4740.0	4567.6	4465.2	4429.3	4427.6	4426.0	4436.2	4355.9	4241.6
27.5°	5004.6	5002.8	4893.6	4731.4	4572.7	4497.6	4495.9	4513.0	4545.4	4478.8	4385.0
30°	5214.5	5195.7	5066.0	4897.0	4751.9	4635.9	4625.6	4610.2	4635.9	4583.0	4528.3
32.5°	5659.9	5600.3	5390.3	5089.8	4900.4	4811.7	4798.0	4702.4	4712.6	4680.3	4652.9
35°	6298.3	6219.8	5939.9	5455.2	5084.8	4958.4	4951.7	4830.4	4809.9	4780.9	4791.2
37.5°	7057.9	6960.6	6634.6	5984.3	5402.3	5129.1	5119.0	5009.7	4926.0	4895.3	4953.3
40°	7820.9	7698.0	7428.3	6629.5	5870.0	5414.2	5381.8	5216.2	5120.6	5069.4	5192.3
42.5°	8561.6	8459.2	8228.8	7353.2	6446.8	5830.7	5759.0	5475.7	5403.9	5356.1	5578.0
45°	9217.1	9125.0	8955.9	8126.4	7122.7	6397.3	6327.3	5864.8	5842.6	5842.6	6163.5
47.5°	9749.7	9729.2	9549.9	8914.9	7919.9	7042.6	6921.3	6405.8	6465.6	6557.8	6994.8
50°	10340.2	10283.9	10092.8	9691.6	8856.9	7781.6	7682.6	7069.8	7293.5	7546.0	8196.4
52.5°	10883.0	10913.7	10700.4	10500.7	9915.2	8606.0	8432.0	7853.3	8336.3	8754.5	9604.6
55°	11441.2	11442.9	11383.1	11355.8	11024.7	9517.5	9326.4	8795.5	9563.6	10082.5	11246.6
57.5°	11965.1	11968.6	12057.4	12298.1	12311.7	10569.0	10352.2	9952.8	10927.4	11456.5	12939.8
60°	12432.8	12456.7	12699.1	13262.4	13443.3	11774.0	11569.2	11320.0	12337.3	12869.8	14720.0
62.5°	12589.9	12676.9	13216.4	14016.9	14561.4	13252.1	13050.7	12902.2	13818.8	14313.8	16208.4
65°	12323.6	12523.3	13566.2	14639.9	15711.7	15008.6	14808.8	14646.6	15358.4	15824.4	17430.5
67.5°	11669.8	11927.6	13545.7	15293.6	17108.0	17121.6	16935.6	16555.0	17009.0	17188.2	17828.2
70°	9947.6	10333.4	12352.6	15537.7	18710.8	20011.4	19832.1	18852.4	18656.1	17789.0	16708.5
72.5°	6409.3	6928.2	9096.0	13528.7	19067.5	22730.4	22720.1	20926.2	19176.7	16621.5	13400.6
75°	2338.4	2655.9	4226.2	8491.7	16005.4	22592.1	22658.8	20571.2	17505.7	12839.0	8348.3
77.5°	851.8	931.9	1379.1	3263.5	9843.5	18126.9	18265.2	16445.7	12460.2	6443.5	3307.9
80°	447.2	491.6	706.6	1266.5	4217.7	10765.3	10982.1	9773.6	5856.2	1940.7	991.7
82.5°	247.5	267.9	396.0	687.9	1899.7	4603.5	4733.1	3861.0	2060.1	822.7	409.7
85°	133.1	141.7	186.0	375.6	928.5	1595.9	1631.8	1153.8	821.0	483.1	198.0
87.5°	39.3	47.8	61.4	119.5	363.6	358.4	367.0	228.7	324.3	244.1	64.9
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°	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6	3268.6
2.5°	3284.0	3278.9	3260.1	3251.6	3241.4	3239.6	3248.2	3249.9	3251.6	3253.2	3260.1
5°	3314.7	3297.6	3280.6	3270.4	3273.7	3275.5	3292.5	3304.5	3313.0	3319.9	3323.3
7.5°	3374.5	3360.9	3331.8	3330.1	3335.2	3350.6	3372.8	3400.1	3415.4	3427.4	3430.8
10°	3463.3	3437.6	3403.5	3408.6	3418.9	3441.0	3487.2	3509.3	3534.9	3557.2	3552.0
12.5°	3553.7	3531.5	3492.3	3495.7	3512.8	3552.0	3596.4	3623.7	3640.8	3657.8	3664.7
15°	3671.4	3632.2	3589.6	3589.6	3620.3	3662.9	3683.4	3705.6	3715.8	3734.6	3741.5
17.5°	3792.7	3741.5	3685.2	3681.7	3719.3	3739.7	3751.7	3755.1	3758.6	3779.0	3785.8
20°	3913.9	3857.5	3777.3	3770.5	3779.0	3775.6	3773.8	3770.5	3775.6	3801.2	3811.5
22.5°	4033.4	3968.5	3857.5	3826.8	3803.0	3770.5	3768.7	3767.1	3770.5	3796.1	3813.1
25°	4173.3	4094.8	3946.2	3854.1	3773.8	3729.5	3734.6	3736.3	3739.7	3760.2	3787.6
27.5°	4325.2	4238.2	4028.2	3845.6	3700.5	3669.8	3661.2	3666.3	3678.3	3710.7	3743.2
30°	4477.1	4374.7	4103.3	3811.5	3608.3	3565.7	3538.3	3550.3	3587.8	3620.3	3656.1
32.5°	4615.4	4513.0	4163.0	3736.3	3490.5	3424.0	3388.1	3403.5	3441.0	3453.0	3495.7
35°	4777.5	4661.5	4188.7	3616.8	3362.5	3260.1	3212.4	3190.1	3209.0	3197.0	3234.5
37.5°	4958.4	4837.3	4185.3	3459.8	3212.4	3094.6	3028.0	2944.3	2905.1	2864.2	2889.8
40°	5226.5	5052.3	4144.3	3270.4	3026.3	2918.8	2799.3	2657.6	2568.9	2488.6	2493.7
42.5°	5591.7	5351.0	4069.1	3062.1	2816.3	2715.6	2553.5	2387.9	2247.9	2114.8	2102.9
45°	6136.2	5741.9	3975.3	2840.3	2589.4	2490.3	2314.6	2128.5	1969.7	1799.1	1778.6
47.5°	6921.3	6267.7	3886.6	2587.6	2350.3	2259.9	2101.1	1928.7	1741.0	1575.4	1556.7
50°	8000.1	7022.1	3804.6	2341.8	2114.8	2046.5	1920.2	1744.4	1554.9	1421.8	1413.3
52.5°	9372.4	8047.9	3770.5	2104.5	1894.6	1869.0	1768.3	1604.4	1425.3	1312.6	1304.0
55°	10947.8	9275.1	3770.5	1877.6	1701.7	1710.3	1640.3	1488.4	1333.1	1232.4	1222.1
57.5°	12555.7	10517.7	3702.2	1667.6	1537.9	1573.8	1529.4	1396.3	1256.2	1152.1	1135.1
60°	14037.3	11558.9	3425.7	1476.4	1392.8	1449.1	1420.1	1305.7	1135.1	1048.1	1034.3
62.5°	15175.7	12146.0	2893.2	1324.5	1273.4	1338.1	1322.9	1186.2	1112.8	1077.1	1065.1
65°	15745.8	12050.5	2212.2	1189.7	1172.6	1273.4	1240.9	1235.7	1177.7	1136.7	1123.1
67.5°	15396.0	11227.7	1604.4	1090.7	1114.6	1213.6	1338.1	1358.6	1251.1	1171.0	1157.2
70°	13861.5	9739.4	1194.8	996.8	1041.2	1215.3	1525.9	1421.8	1227.2	1133.3	1118.0
72.5°	10545.1	7262.7	926.8	897.8	945.6	1223.8	1609.6	1392.8	1159.0	1252.9	1242.6
75°	6030.4	3987.2	744.2	776.6	826.2	1143.6	1566.9	1317.7	1106.1	1150.5	1150.5
77.5°	2299.2	1532.8	614.5	657.1	664.0	998.6	1498.7	1312.6	1053.2	1027.6	937.1
80°	797.1	599.1	508.6	522.3	513.7	887.5	1437.2	1141.8	861.9	771.5	745.9
82.5°	326.1	298.7	402.8	385.7	365.3	689.6	1160.7	933.7	704.9	623.0	616.2
85°	141.7	189.4	266.3	233.8	211.7	478.0	930.3	790.3	595.7	513.7	512.1
87.5°	29.0	71.6	112.6	105.8	109.3	319.2	660.5	561.6	421.6	315.8	247.5
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)