

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: P970809

Luminaire Tested: **NAV-SB6C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38007 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

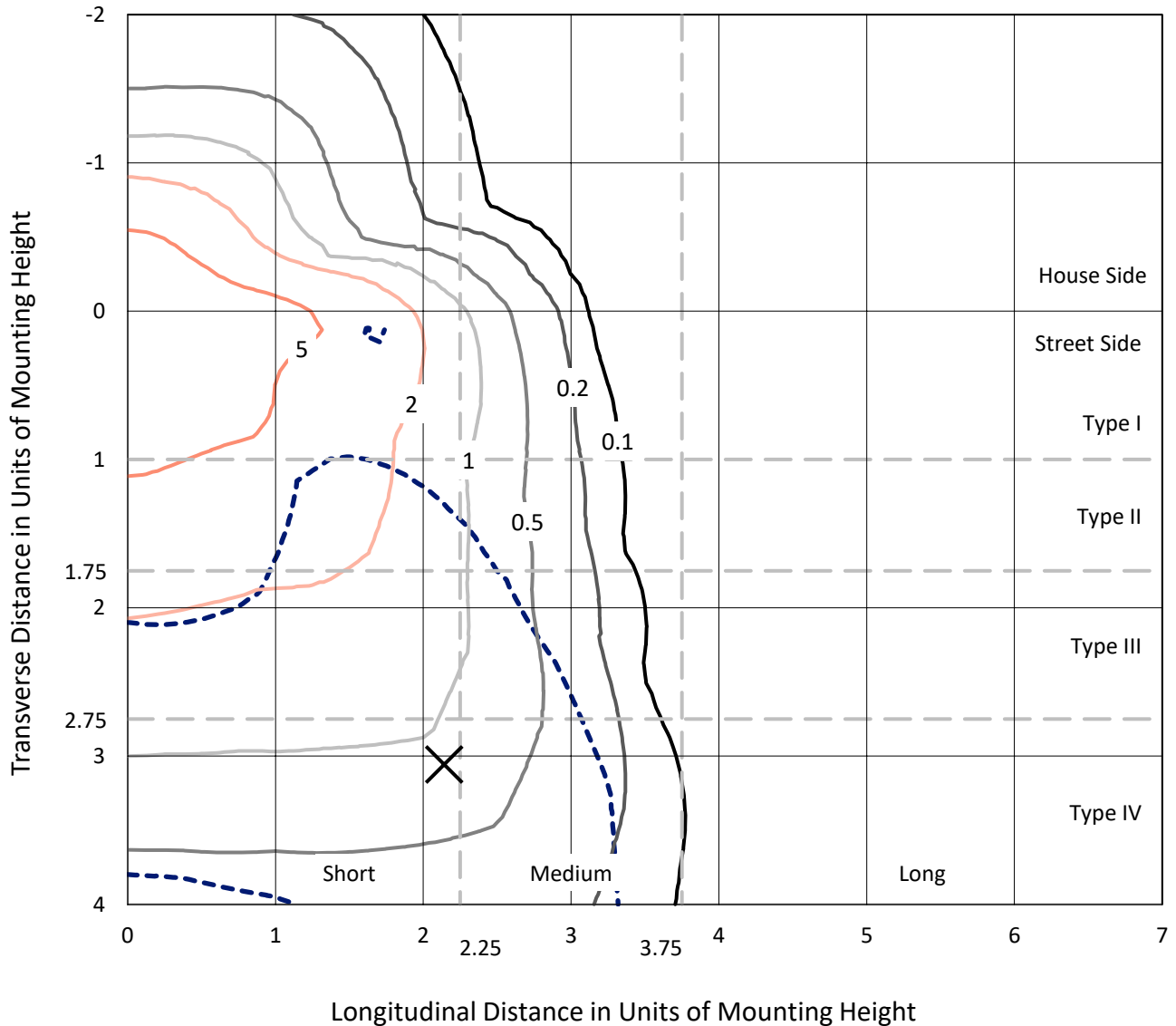
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

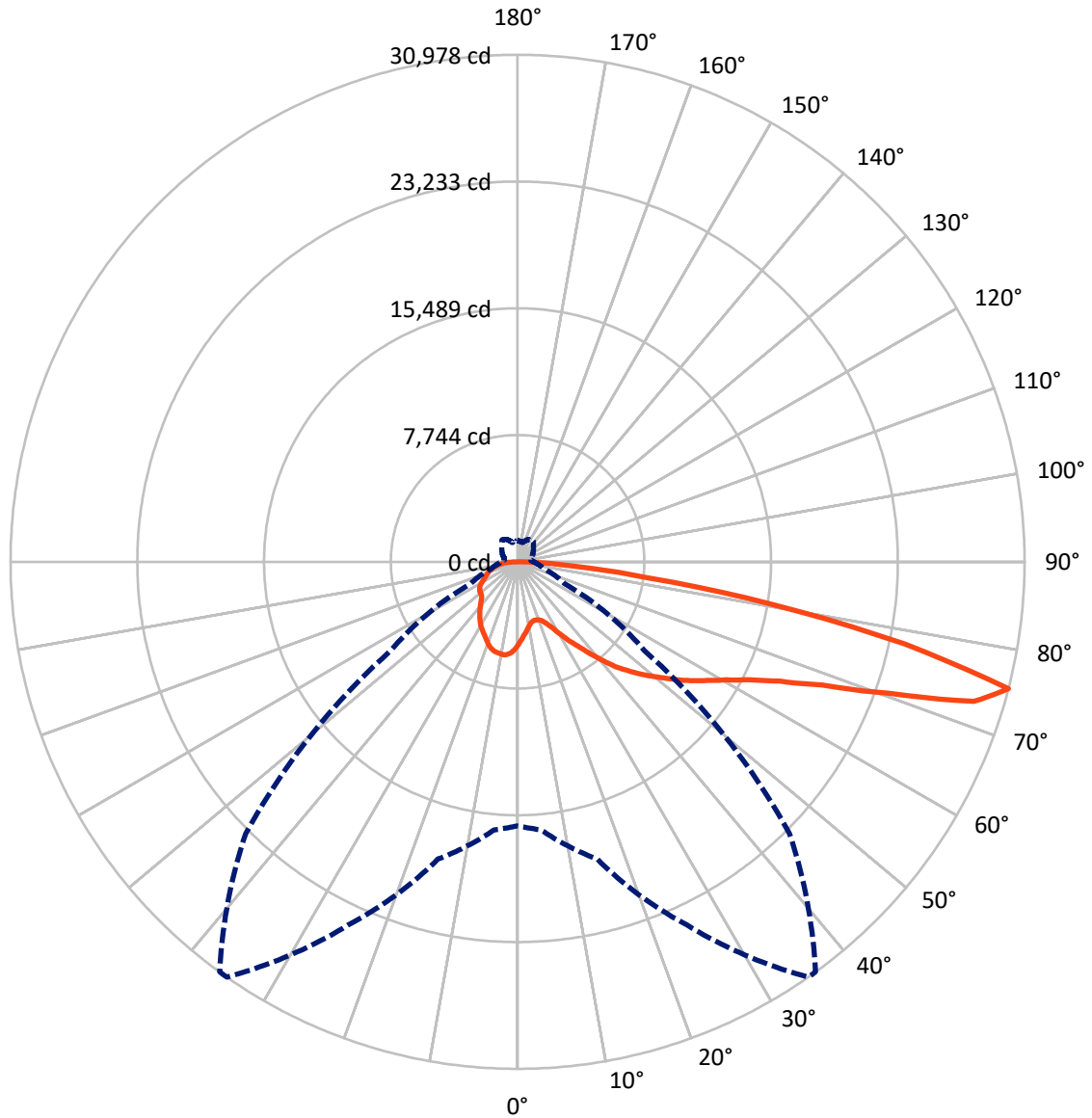
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9044.7	0.0	9044.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28962.3	0.0	28962.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	38007.0	0.0	38007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	1.3
10°-20°	1383.2	3.6
20°-30°	2322.7	6.1
30°-40°	3609.8	9.5
40°-50°	5357.9	14.1
50°-60°	7396.8	19.5
60°-70°	8974.1	23.6
70°-80°	7416.4	19.5
80°-90°	1066.7	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°	38007.0	100.0
0°-180°	38007.0	100.0

Coefficient of Utilization

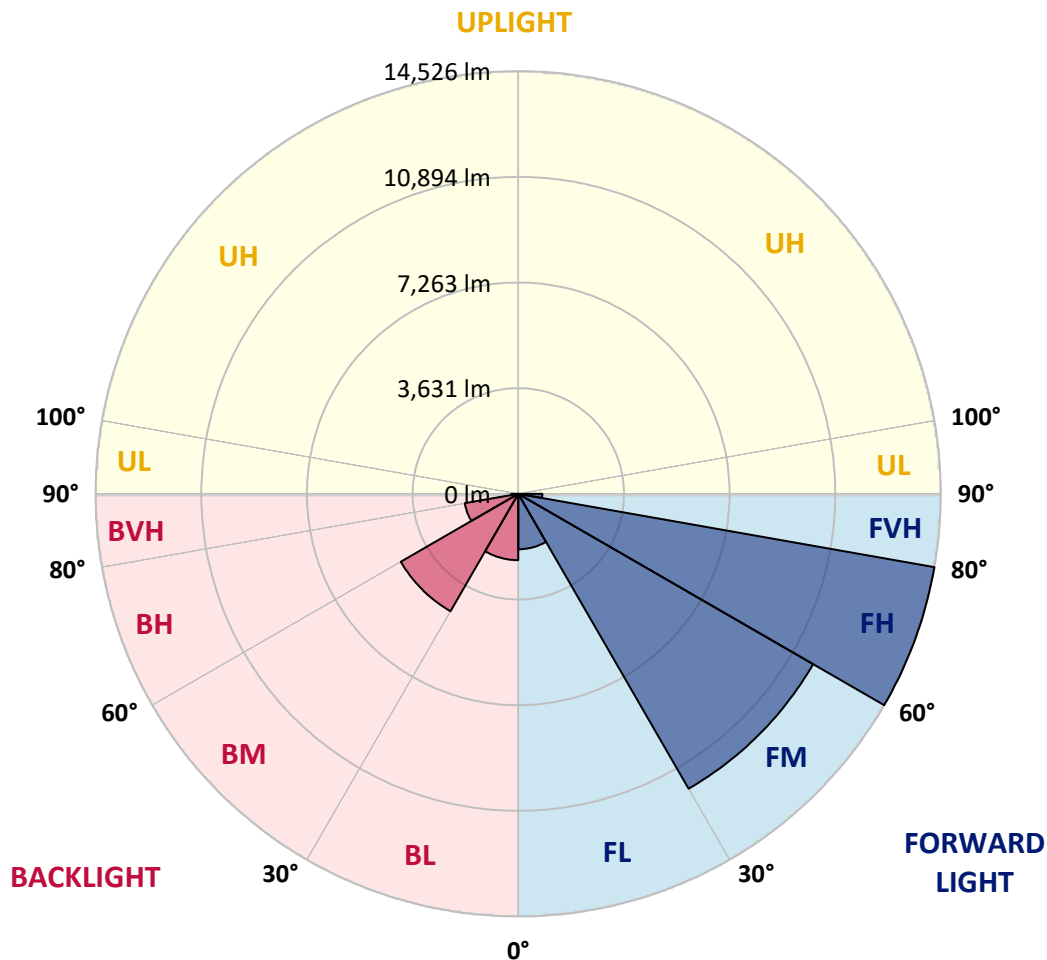


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.0	5.0			
FM (30°-60°)	11704.1	30.8			
FH (60°-80°)	14525.7	38.2			G5
FVH (80°-90°)	826.5	2.2			G5
BL (0°-30°)	2279.4	6.0	B3/2500		
BM (30°-60°)	4660.4	12.3	B3/5000		
BH (60°-80°)	1864.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	240.2	0.6			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°	36°	45°	55°	65°	75°	85°
0°	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7
2.5°	4670.2	4699.0	4711.3	4705.2	4735.9	4731.8	4775.0	4828.4	4902.4	4974.3	5079.1
5°	4310.6	4341.5	4368.1	4392.8	4452.4	4470.9	4538.7	4641.4	4777.0	4914.7	5087.3
7.5°	3975.8	4002.4	4043.5	4088.7	4189.4	4207.9	4320.9	4481.2	4670.2	4871.5	5109.9
10°	3702.5	3729.2	3772.3	3823.7	3949.0	3971.7	4115.5	4329.1	4575.7	4830.4	5134.5
12.5°	3585.3	3593.5	3618.2	3669.6	3778.5	3792.9	3951.1	4195.5	4483.2	4799.7	5171.5
15°	3579.2	3595.6	3597.6	3624.4	3714.8	3721.0	3866.8	4109.3	4425.7	4793.5	5227.0
17.5°	3640.8	3653.2	3634.6	3651.0	3727.1	3737.4	3852.5	4068.2	4407.2	4820.2	5321.5
20°	3805.2	3815.5	3760.0	3737.4	3792.9	3801.1	3914.1	4094.9	4425.7	4875.6	5451.0
22.5°	4154.5	4160.7	4025.1	3932.6	3936.7	3940.8	4039.4	4203.8	4497.6	4976.4	5615.4
25°	4699.0	4694.8	4479.1	4300.4	4197.7	4175.0	4240.7	4380.5	4618.9	5109.9	5826.9
27.5°	5335.9	5305.1	5089.3	4822.2	4598.3	4565.5	4551.0	4610.7	4791.5	5286.5	6085.8
30°	6055.0	6026.3	5794.1	5444.8	5134.5	5081.1	4945.5	4914.7	5048.2	5527.0	6445.4
32.5°	6844.0	6825.5	6548.1	6124.9	5709.9	5648.2	5420.1	5338.0	5442.7	5890.7	6946.7
35°	7505.6	7489.2	7259.0	6823.4	6315.9	6240.0	6007.7	5915.3	5968.8	6357.0	7602.2
37.5°	8103.5	8095.2	7898.0	7554.9	7031.0	6938.5	6677.6	6646.7	6636.5	6971.4	8397.3
40°	8658.3	8637.7	8432.3	8251.5	7863.1	7778.8	7548.7	7522.1	7444.0	7727.5	9297.3
42.5°	9272.6	9219.2	8921.3	8837.0	8732.2	8662.4	8524.7	8528.8	8356.2	8580.2	10250.6
45°	9773.9	9743.1	9437.0	9387.7	9500.6	9471.9	9591.0	9621.9	9287.0	9474.0	11241.0
47.5°	10312.2	10283.5	10024.6	9989.6	10295.8	10304.0	10725.2	10735.5	10195.2	10402.6	12233.4
50°	10975.9	10934.8	10677.9	10721.1	11064.3	11095.0	11865.5	11795.7	11031.4	11345.7	13217.5
52.5°	11413.6	11438.2	11382.7	11452.5	11921.1	11949.8	12987.4	12808.6	11859.4	12276.5	14183.2
55°	11736.1	11785.4	11958.1	12118.3	12825.1	12853.8	14045.6	13772.2	12545.6	13139.5	15091.4
57.5°	12151.2	12081.3	12403.8	12716.2	13684.0	13759.9	15074.9	14701.0	13153.8	13883.2	15713.9
60°	12747.0	12697.7	12948.3	13410.7	14645.5	14766.7	16163.8	15537.2	13599.7	14472.9	15835.1
62.5°	13955.2	13831.9	13870.9	14279.8	15857.7	16018.0	17392.5	16266.5	13821.6	14703.0	15185.9
65°	15761.1	15549.6	15352.2	15635.9	17565.1	17723.4	18779.4	16839.8	13739.4	14257.1	13462.0
67.5°	18035.6	17826.1	17583.6	17850.7	20080.0	20205.3	20491.0	17162.4	13092.2	12539.4	10415.0
70°	19911.5	19833.4	20123.1	21222.4	24096.8	24100.9	22685.3	16895.3	11319.0	8890.4	6026.3
72.5°	19662.9	19615.6	21142.3	24540.7	29159.5	29050.6	24762.6	14873.6	7624.8	4010.6	2258.1
75°	16130.9	16437.1	18802.0	24481.0	30977.9	30963.4	23490.7	9455.4	3153.9	1662.2	1167.1
77.5°	8650.1	9134.9	12206.6	18074.6	24183.1	24546.8	16515.2	3308.0	1354.0	1064.3	807.5
80°	2821.0	3244.2	4865.4	9202.8	15713.9	15646.1	7078.2	1298.6	926.6	754.1	558.8
82.5°	1197.8	1247.1	2173.8	4345.6	8064.5	7939.1	2254.0	745.8	651.3	515.7	345.2
85°	468.4	524.0	959.5	2009.4	3492.9	3416.8	813.6	369.8	417.1	336.9	205.5
87.5°	154.1	187.0	343.2	688.3	1086.9	1047.9	199.3	127.4	180.8	154.1	74.0
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°	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7	5064.7
2.5°	5107.9	5140.7	5179.7	5237.2	5286.5	5327.6	5370.8	5397.5	5407.8	5438.6	5436.6
5°	5144.8	5216.7	5313.3	5407.8	5500.3	5555.7	5605.1	5629.7	5652.4	5668.8	5672.9
7.5°	5206.5	5298.9	5451.0	5574.3	5652.4	5697.6	5730.4	5722.2	5730.4	5734.5	5740.7
10°	5259.9	5389.3	5570.2	5687.2	5746.9	5748.9	5740.7	5711.9	5697.6	5699.6	5703.7
12.5°	5323.5	5467.3	5662.6	5761.2	5777.6	5732.4	5697.6	5648.2	5629.7	5621.5	5617.4
15°	5409.8	5574.3	5763.3	5800.3	5759.2	5701.7	5642.0	5562.0	5520.9	5488.0	5498.2
17.5°	5514.7	5695.5	5841.4	5814.6	5726.3	5631.8	5535.2	5413.9	5329.7	5294.8	5296.9
20°	5660.6	5822.8	5900.9	5783.8	5650.3	5506.4	5342.1	5194.1	5116.1	5081.1	5077.0
22.5°	5837.3	5993.4	5958.4	5730.4	5541.4	5311.2	5105.8	4996.9	4957.8	4933.2	4937.3
25°	6048.8	6182.4	5999.5	5652.4	5362.6	5052.3	4894.2	4859.2	4840.8	4822.2	4822.2
27.5°	6324.1	6396.1	6030.4	5537.3	5083.2	4777.0	4719.5	4725.7	4719.5	4688.7	4694.8
30°	6687.8	6673.5	6059.2	5350.3	4762.7	4528.4	4532.5	4559.2	4563.4	4542.8	4553.0
32.5°	7166.6	7020.7	6073.5	5107.9	4456.5	4310.6	4314.7	4343.5	4364.0	4329.1	4345.6
35°	7746.0	7425.5	6050.9	4803.8	4220.2	4103.1	4072.3	4080.5	4086.7	4053.8	4076.4
37.5°	8422.0	7879.6	5950.2	4466.7	4025.1	3899.7	3833.9	3778.5	3745.7	3714.8	3735.3
40°	9163.7	8374.8	5765.3	4138.0	3807.3	3684.0	3585.3	3480.6	3369.6	3328.5	3347.0
42.5°	9940.3	8884.3	5541.4	3823.7	3556.5	3455.9	3351.1	3199.0	3032.7	2948.4	2958.7
45°	10745.8	9406.1	5321.5	3513.4	3299.8	3256.6	3135.4	2952.5	2771.7	2664.9	2656.7
47.5°	11534.7	9899.2	4998.9	3201.2	3059.3	3106.6	3012.1	2843.7	2642.2	2473.8	2455.3
50°	12288.8	10361.5	4470.9	2884.8	2864.2	3061.4	2971.0	2728.5	2498.4	2282.7	2264.2
52.5°	13036.7	10735.5	3795.0	2597.0	2759.4	3049.1	2917.6	2650.4	2369.0	2143.0	2118.4
55°	13671.6	10928.7	3143.6	2350.5	2607.3	2944.3	2853.9	2558.0	2186.1	1945.8	1925.2
57.5°	14033.2	10772.4	2601.1	2108.0	2397.8	2771.7	2745.0	2360.8	1968.3	1783.4	1758.8
60°	13877.1	10139.6	2157.4	1896.5	2198.4	2584.7	2555.9	2165.6	1802.0	1627.3	1602.6
62.5°	13016.2	8933.6	1806.0	1711.5	2017.6	2393.7	2366.9	2015.6	1674.5	1506.0	1479.4
65°	11282.1	7267.2	1532.8	1557.4	1834.7	2163.6	2202.6	1890.3	1573.9	1409.5	1382.7
67.5°	8604.9	5264.0	1319.1	1423.8	1656.0	1937.6	2050.5	1799.9	1489.6	1333.4	1308.8
70°	4904.4	2989.5	1138.3	1294.5	1497.8	1727.9	1933.5	1727.9	1399.2	1269.8	1253.4
72.5°	1859.5	1372.5	984.2	1165.0	1345.8	1551.2	1804.0	1615.0	1294.5	1197.8	1181.4
75°	992.4	836.2	828.0	1012.9	1171.2	1378.6	1641.6	1504.0	1216.4	1265.7	1306.8
77.5°	676.0	591.7	692.4	867.0	980.1	1187.6	1469.0	1335.5	1054.0	1049.9	967.7
80°	468.4	419.1	562.9	698.5	758.2	998.6	1282.1	1146.5	858.8	801.3	766.4
82.5°	281.5	273.3	421.2	521.9	536.3	770.5	1062.2	961.6	702.6	612.2	616.4
85°	154.1	162.4	269.2	306.2	312.3	538.3	832.1	743.7	540.4	454.1	458.2
87.5°	43.2	55.5	98.6	121.3	150.0	279.4	495.2	441.8	271.2	189.0	189.0
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)