

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: P968234

Luminaire Tested: **NAV-SB5B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968234
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-SB5B-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29175.6 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

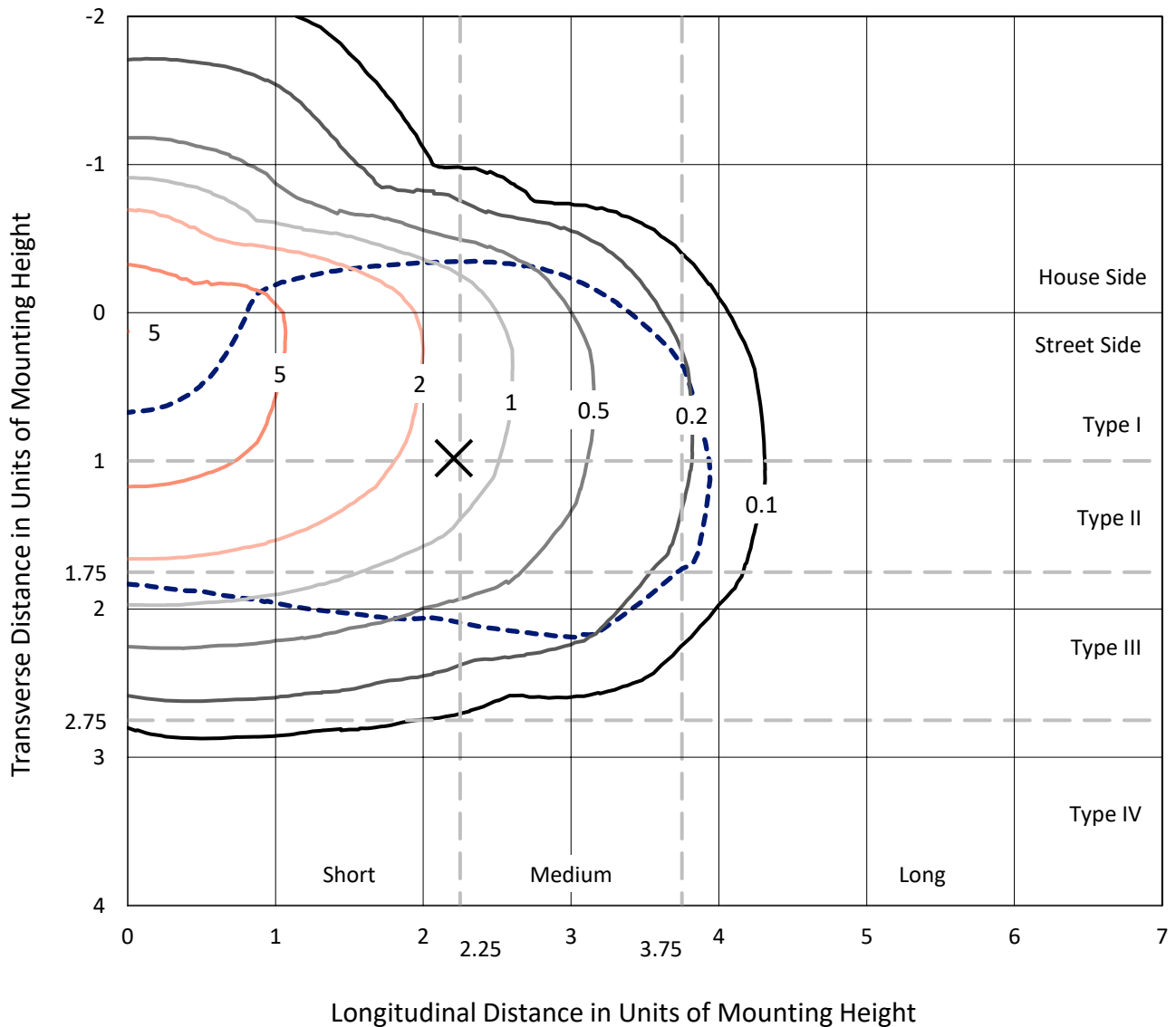
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

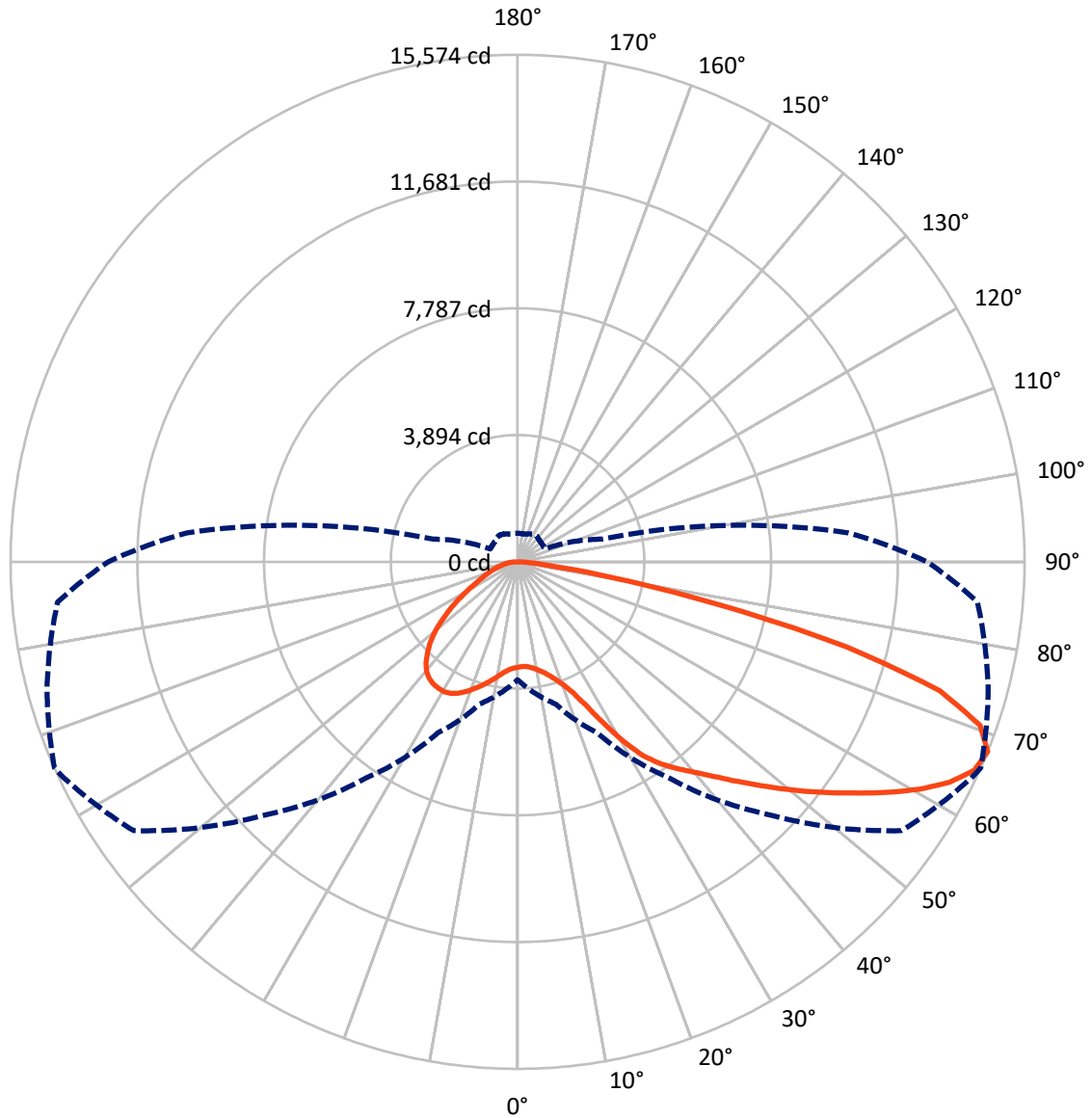
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7254.4	0.0	7254.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21921.2	0.0	21921.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	29175.6	0.0	29175.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	1.1
10°-20°	1060.0	3.6
20°-30°	2043.1	7.0
30°-40°	3582.3	12.3
40°-50°	5325.6	18.3
50°-60°	6750.8	23.1
60°-70°	6605.4	22.6
70°-80°	3150.9	10.8
80°-90°	336.7	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°	29175.6	100.0
0°-180°	29175.6	100.0

Coefficient of Utilization

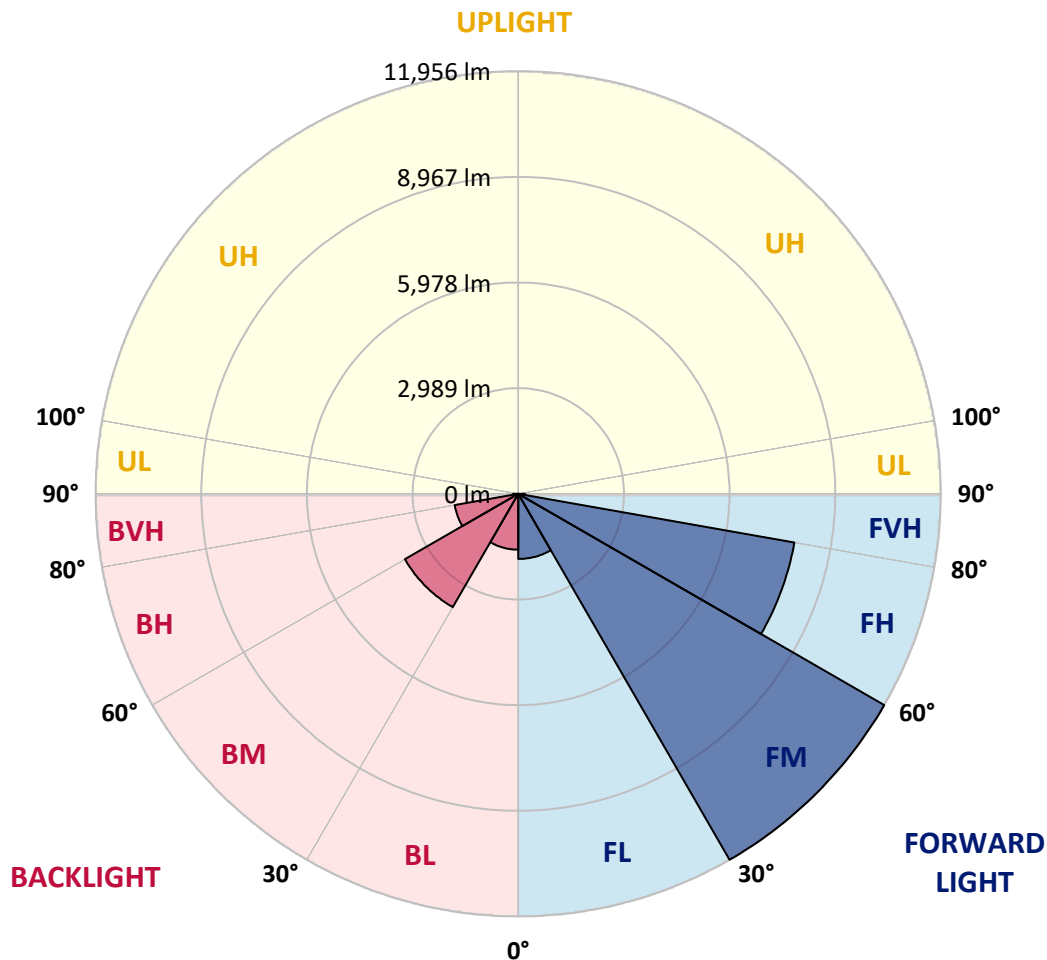


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.6	6.3			
FM (30°-60°)	11955.9	41.0			
FH (60°-80°)	7930.7	27.2			G4/12000
FVH (80°-90°)	190.9	0.7			G2/225
BL (0°-30°)	1580.3	5.4	B3/2500		
BM (30°-60°)	3702.7	12.7	B3/5000		
BH (60°-80°)	1825.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	145.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9
2.5°	3202.2	3220.7	3216.0	3208.4	3206.8	3209.9	3214.5	3219.1	3217.6	3225.3	3237.5
5°	3193.1	3211.4	3209.9	3209.9	3216.0	3228.3	3235.9	3243.6	3235.9	3245.1	3262.1
7.5°	3199.1	3213.0	3219.1	3225.3	3240.5	3263.6	3281.9	3298.8	3289.6	3300.3	3321.8
10°	3277.3	3288.1	3294.2	3294.2	3304.9	3331.0	3349.4	3380.0	3372.4	3389.3	3416.8
12.5°	3419.9	3430.7	3430.7	3424.5	3432.2	3449.0	3455.2	3488.9	3475.1	3502.7	3530.3
15°	3594.7	3616.1	3599.3	3588.5	3591.6	3608.4	3606.9	3633.0	3619.2	3642.1	3666.7
17.5°	3787.8	3815.4	3787.8	3786.2	3780.1	3798.5	3800.1	3823.0	3798.5	3815.4	3832.3
20°	4016.3	4054.5	4031.5	4039.2	4025.4	4033.1	4040.8	4074.5	4036.1	4048.4	4043.8
22.5°	4338.1	4384.1	4359.5	4388.7	4379.5	4373.4	4371.8	4431.6	4371.8	4376.4	4332.0
25°	4807.1	4862.4	4819.4	4859.3	4859.3	4879.2	4902.3	4978.8	4879.2	4850.1	4735.1
27.5°	5500.0	5555.2	5470.9	5495.4	5487.7	5536.8	5512.3	5702.4	5595.1	5547.6	5316.1
30°	6334.0	6432.1	6272.7	6266.5	6258.9	6337.1	6372.3	6498.0	6389.1	6341.6	6062.7
32.5°	7235.3	7338.0	7147.9	7092.8	7063.6	7111.1	7082.0	7183.2	7108.1	7034.5	6689.6
35°	8188.7	8289.9	8109.1	8001.8	7885.2	7785.6	7681.4	7707.5	7637.0	7525.0	7167.8
37.5°	9090.1	9275.6	9084.0	8969.1	8754.4	8559.8	8268.5	8147.4	8081.5	7978.8	7618.5
40°	10008.3	10114.1	9968.4	9870.3	9637.4	9332.3	8866.4	8610.3	8521.4	8421.8	8116.8
42.5°	10684.3	10785.5	10707.4	10639.9	10457.5	10103.3	9500.9	9180.5	9051.8	8939.8	8680.8
45°	11220.9	11296.0	11246.9	11271.4	11193.3	10849.9	10158.6	9792.2	9658.8	9522.4	9318.5
47.5°	11436.9	11516.7	11594.9	11740.6	11873.9	11620.9	10865.2	10454.4	10313.3	10173.8	9973.0
50°	11412.5	11493.7	11720.6	12030.2	12444.1	12359.8	11610.2	11159.6	11029.2	10869.8	10684.3
52.5°	11216.3	11308.2	11599.5	12114.6	12773.7	12913.2	12369.0	11887.6	11765.1	11574.9	11389.5
55°	10701.2	10756.3	11193.3	11922.9	12851.9	13299.5	13112.4	12663.4	12540.7	12275.5	12073.2
57.5°	9746.2	9826.0	10462.1	11406.3	12655.7	13561.6	13765.4	13478.9	13360.8	12979.1	12767.6
60°	8499.9	8627.2	9355.3	10538.7	12155.9	13560.0	14358.7	14280.5	14182.4	13672.0	13451.3
62.5°	7089.7	7236.8	7937.4	9312.4	11282.2	13175.4	14729.7	14952.0	14901.3	14311.2	14029.2
65°	5444.9	5546.1	6243.5	7725.8	9922.5	12349.1	14772.6	15410.3	15419.5	14797.1	14331.1
67.5°	3625.3	3916.5	4522.1	5797.4	8101.4	10998.6	14395.5	15485.4	15574.3	14964.2	14179.3
70°	1768.9	2152.2	2745.5	3767.9	5797.4	8927.6	13409.9	14869.2	15066.9	14476.8	13275.0
72.5°	734.3	858.4	1181.8	1859.5	3328.0	6024.3	11429.4	13198.3	13564.6	12827.4	11161.1
75°	495.2	536.5	676.0	953.5	1516.1	2970.8	8242.4	9841.2	10431.4	9688.0	7918.9
77.5°	381.7	407.7	492.1	666.8	901.4	1123.6	4411.7	5930.9	6235.9	5772.9	4120.4
80°	300.4	320.4	367.9	486.0	639.2	600.9	1503.8	2687.1	2863.4	2402.1	1324.4
82.5°	260.6	268.2	263.6	329.5	424.7	351.1	493.6	991.8	1094.5	794.1	432.2
85°	188.5	210.0	219.2	203.9	225.3	177.8	202.3	351.1	386.3	344.9	243.7
87.5°	76.7	113.5	139.5	131.8	82.8	50.6	62.8	102.7	118.1	128.7	79.7
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°	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9	3235.9
2.5°	3239.0	3249.8	3257.4	3266.6	3272.7	3281.9	3300.3	3311.1	3312.6	3320.3	3318.7
5°	3268.1	3283.5	3300.3	3324.9	3352.5	3375.4	3410.7	3435.3	3444.4	3452.1	3450.6
7.5°	3331.0	3352.5	3383.1	3426.1	3465.9	3496.6	3539.4	3568.6	3597.7	3608.4	3609.9
10°	3424.5	3455.2	3499.7	3557.9	3600.8	3640.6	3685.1	3709.6	3738.8	3751.0	3757.1
12.5°	3541.0	3573.2	3631.5	3712.7	3752.5	3780.1	3795.5	3789.3	3795.5	3806.2	3809.3
15°	3674.4	3709.6	3775.6	3862.9	3890.5	3866.0	3832.3	3801.6	3797.0	3800.1	3810.8
17.5°	3832.3	3858.3	3935.0	4008.6	3988.6	3887.4	3813.8	3764.8	3740.3	3732.6	3743.3
20°	4053.0	4053.0	4115.9	4161.8	4028.5	3856.8	3741.9	3662.1	3611.5	3590.1	3585.4
22.5°	4321.3	4296.7	4336.6	4304.4	4020.8	3771.0	3611.5	3473.5	3397.0	3366.3	3361.7
25°	4661.6	4632.4	4621.7	4422.5	3965.6	3634.5	3375.4	3208.4	3140.9	3124.1	3127.2
27.5°	5175.1	5101.5	4962.0	4486.8	3864.5	3419.9	3099.5	2944.7	2906.4	2907.9	2912.5
30°	5858.8	5711.6	5369.8	4497.5	3698.9	3116.4	2817.5	2707.1	2688.7	2696.4	2722.4
32.5°	6491.8	6352.3	5786.7	4448.5	3444.4	2819.1	2564.5	2491.0	2463.4	2472.6	2484.8
35°	6988.6	6950.2	6173.0	4379.5	3131.7	2540.1	2337.7	2274.8	2221.2	2208.9	2218.1
37.5°	7457.6	7442.2	6462.7	4283.0	2822.0	2342.2	2155.3	2072.4	1994.3	1951.4	1952.9
40°	7972.7	7957.3	6652.8	4134.2	2547.6	2170.6	1991.3	1882.4	1785.9	1707.6	1715.3
42.5°	8552.1	8461.6	6743.3	3921.1	2314.7	2025.0	1857.9	1710.7	1583.5	1511.5	1516.1
45°	9185.1	8981.3	6741.7	3649.8	2118.5	1891.6	1715.3	1506.9	1388.8	1321.3	1318.3
47.5°	9856.6	9478.0	6658.9	3349.4	1928.4	1744.4	1494.6	1335.2	1257.0	1215.5	1206.4
50°	10549.4	9942.4	6517.9	3004.5	1733.7	1577.4	1356.6	1247.7	1188.0	1149.6	1135.9
52.5°	11200.9	10364.0	6347.7	2613.6	1536.0	1414.9	1295.3	1211.0	1148.1	1105.3	1086.8
55°	11806.5	10727.2	6107.1	2213.5	1375.0	1306.1	1266.2	1195.7	1123.6	1073.1	1053.1
57.5°	12344.5	10963.3	5691.7	1837.9	1260.0	1230.9	1235.5	1169.6	1086.8	1043.9	1016.3
60°	12792.1	11136.5	5076.9	1489.9	1166.6	1157.3	1188.0	1120.5	1024.0	974.9	953.5
62.5°	13060.3	11133.4	4322.8	1220.2	1086.8	1089.9	1125.1	1059.2	961.1	915.1	901.4
65°	13037.4	10860.6	3495.0	1043.9	1010.1	1013.2	1059.2	991.8	909.0	881.4	879.9
67.5°	12575.9	10195.4	2681.1	929.0	925.9	939.7	993.3	945.8	876.8	873.7	878.3
70°	11326.7	8814.2	1931.4	837.0	838.4	858.4	929.0	916.7	860.0	866.1	864.6
72.5°	9082.4	6720.2	1296.8	740.4	741.9	774.1	867.7	893.7	843.1	924.3	936.6
75°	6048.8	4190.9	833.9	637.7	639.2	680.6	814.0	849.2	797.1	921.3	929.0
77.5°	2906.4	1884.0	603.9	536.5	536.5	574.8	703.6	760.3	679.1	715.9	656.1
80°	1004.1	708.2	475.2	432.2	423.1	449.2	593.3	659.2	585.6	539.6	505.8
82.5°	395.4	367.9	381.7	335.7	305.0	322.0	461.5	544.2	430.7	389.4	387.9
85°	226.8	239.1	269.8	222.2	176.3	197.7	338.8	390.9	324.9	286.7	292.7
87.5°	61.3	84.4	124.1	115.0	79.7	84.4	160.9	216.2	187.1	144.1	148.7
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)