

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: P968980

Luminaire Tested: **NAV-SB5C-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968980
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-SB5C-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35548 lumens
Efficiency: N/A
Efficacy: 142.5 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): 249.5
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



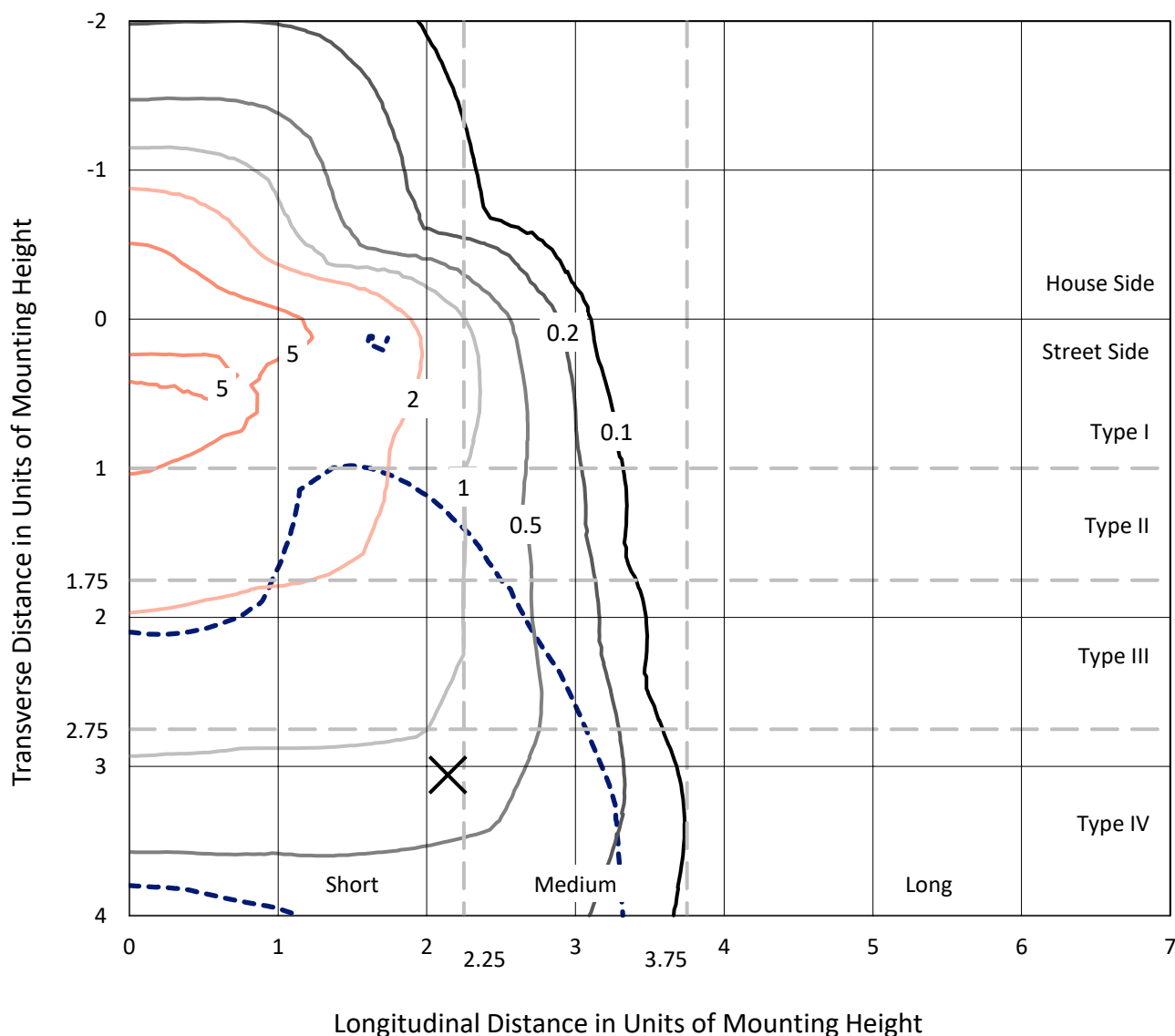
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

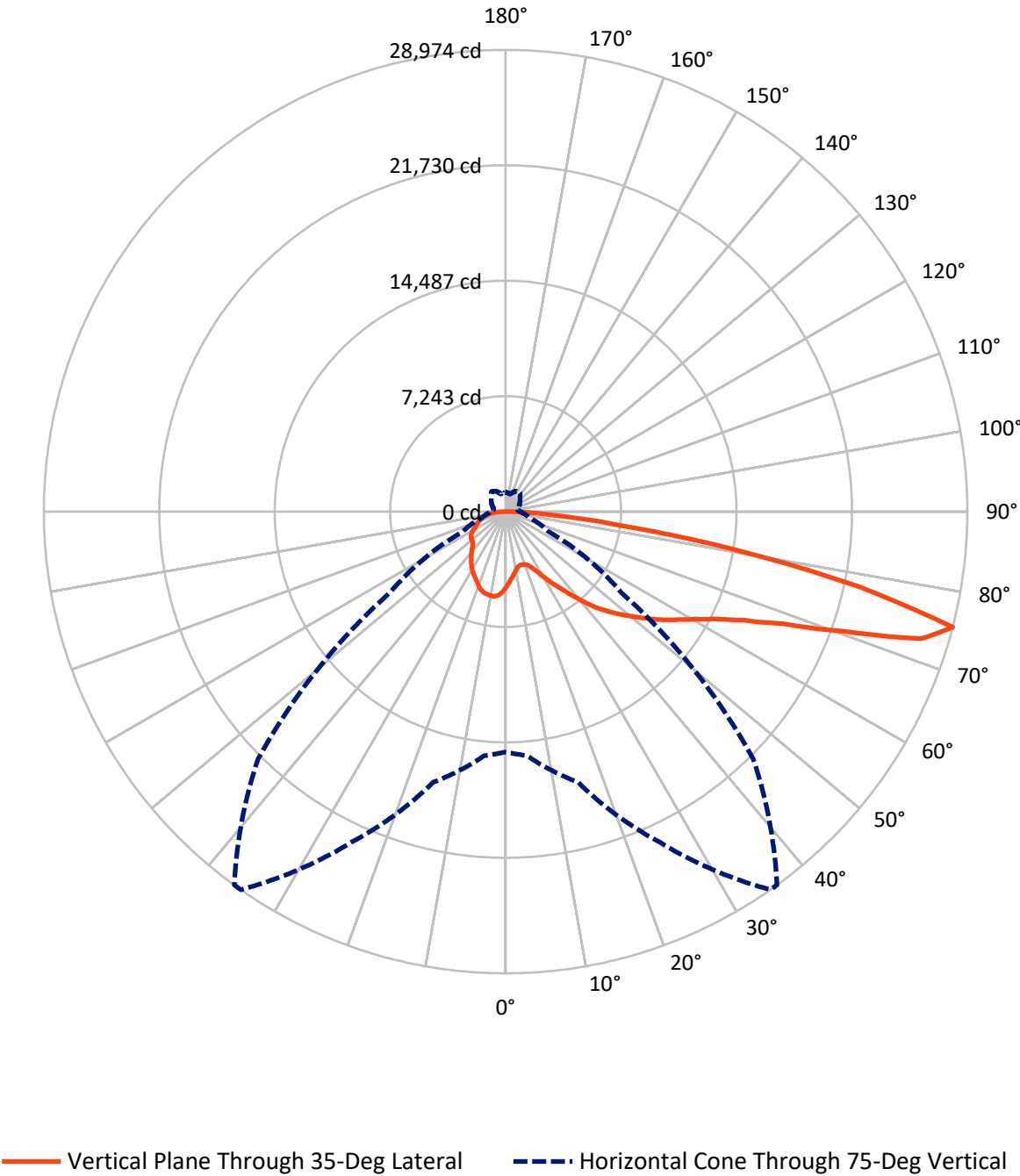


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8459.5	0.0	8459.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27088.5	0.0	27088.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	35548.0	0.0	35548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.5	1.3
10°-20°	1293.7	3.6
20°-30°	2172.4	6.1
30°-40°	3376.2	9.5
40°-50°	5011.2	14.1
50°-60°	6918.3	19.5
60°-70°	8393.5	23.6
70°-80°	6936.6	19.5
80°-90°	997.7	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°	35548.0	100.0
0°-180°	35548.0	100.0

Coefficient of Utilization



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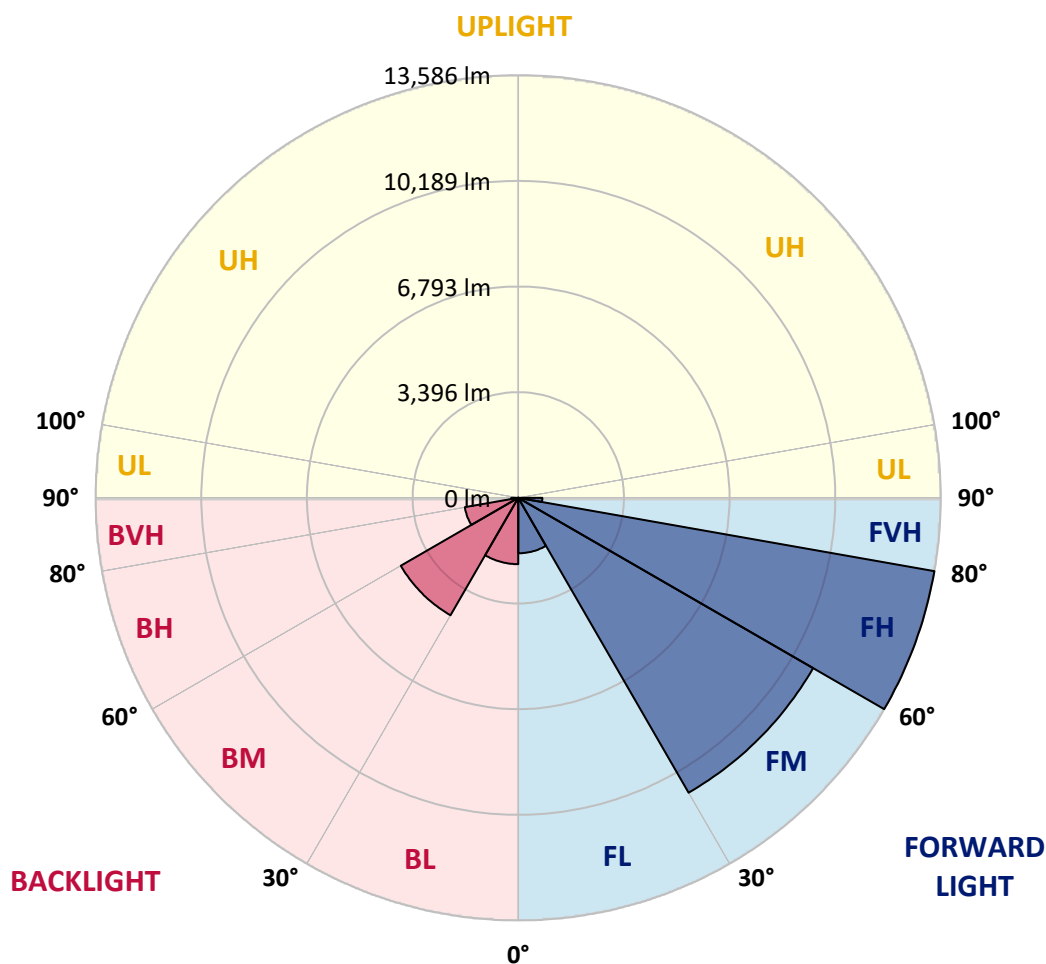
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1782.7	5.0			
FM	(30°-60°)	10946.9	30.8			
FH	(60°-80°)	13585.9	38.2			G5
FVH	(80°-90°)	773.0	2.2			G5
BL	(0°-30°)	2131.9	6.0	B3/2500		
BM	(30°-60°)	4358.9	12.3	B3/5000		
BH	(60°-80°)	1744.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	224.7	0.6			G2/225
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°	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0
2.5°	4368.0	4395.0	4406.5	4400.7	4429.5	4425.7	4466.0	4516.0	4585.2	4652.5	4750.5
5°	4031.7	4060.5	4085.5	4108.6	4164.4	4181.6	4245.0	4341.2	4468.0	4596.7	4758.2
7.5°	3718.5	3743.5	3781.9	3824.2	3918.4	3935.7	4041.4	4191.2	4368.0	4556.3	4779.3
10°	3463.0	3487.9	3528.3	3576.3	3693.5	3714.7	3849.2	4049.1	4279.7	4517.9	4802.3
12.5°	3353.4	3361.1	3384.1	3432.2	3534.0	3547.5	3695.4	3924.1	4193.2	4489.1	4837.0
15°	3347.6	3363.0	3364.9	3389.9	3474.4	3480.2	3616.6	3843.4	4139.4	4483.3	4888.8
17.5°	3405.3	3416.8	3399.5	3414.9	3486.0	3495.6	3603.2	3805.0	4122.0	4508.4	4977.2
20°	3559.0	3568.6	3516.8	3495.6	3547.5	3555.2	3660.9	3830.0	4139.4	4560.2	5098.2
22.5°	3885.7	3891.4	3764.6	3678.1	3682.0	3685.8	3778.0	3931.8	4206.6	4654.4	5252.0
25°	4395.0	4391.1	4189.3	4022.1	3926.1	3904.9	3966.4	4097.1	4320.0	4779.3	5449.9
27.5°	4990.7	4961.8	4760.1	4510.2	4300.8	4270.0	4256.6	4312.3	4481.4	4944.6	5692.1
30°	5663.3	5636.4	5419.2	5092.5	4802.3	4752.4	4625.5	4596.7	4721.7	5169.4	6028.4
32.5°	6401.2	6383.9	6124.5	5728.6	5340.5	5282.7	5069.4	4992.6	5090.6	5509.6	6497.3
35°	7020.0	7004.6	6789.4	6382.0	5907.4	5836.2	5619.0	5532.6	5582.6	5945.8	7110.3
37.5°	7579.3	7571.6	7387.1	7066.1	6576.1	6489.6	6245.5	6216.7	6207.1	6520.3	7854.1
40°	8098.1	8078.8	7886.7	7717.6	7354.4	7275.6	7060.4	7035.4	6962.3	7227.6	8695.7
42.5°	8672.6	8622.7	8344.1	8265.3	8167.3	8101.9	7973.2	7977.1	7815.6	8025.0	9587.4
45°	9141.6	9112.8	8826.4	8780.3	8886.0	8859.1	8970.5	8999.4	8686.2	8861.0	10513.6
47.5°	9645.0	9618.2	9376.0	9343.4	9629.7	9637.4	10031.4	10040.9	9535.6	9729.6	11441.9
50°	10265.8	10227.3	9987.1	10027.5	10348.4	10377.2	11097.9	11032.6	10317.6	10611.7	12362.3
52.5°	10675.1	10698.1	10646.3	10711.7	11149.7	11176.7	12147.2	11979.9	11092.1	11482.3	13265.6
55°	10976.8	11023.0	11184.4	11334.2	11995.3	12022.2	13136.8	12881.2	11734.0	12289.3	14115.0
57.5°	11365.0	11299.7	11601.4	11893.5	12798.6	12869.7	14099.6	13749.9	12302.8	12985.0	14697.3
60°	11922.3	11876.2	12110.6	12543.0	13698.0	13811.4	15118.1	14531.9	12719.8	13536.6	14810.6
62.5°	13052.2	12936.9	12973.4	13355.9	14831.7	14981.6	16267.3	15214.2	12927.3	13751.7	14203.3
65°	14741.4	14543.5	14359.0	14624.2	16428.7	16576.7	17564.4	15750.4	12850.4	13334.7	12591.0
67.5°	16868.7	16672.8	16446.0	16695.8	18780.9	18898.1	19165.2	16052.0	12245.2	11728.2	9741.2
70°	18623.3	18550.2	18821.3	19849.3	22537.8	22541.7	21217.6	15802.2	10586.7	8315.2	5636.4
72.5°	18390.8	18346.6	19774.4	22952.9	27272.9	27171.0	23160.5	13911.3	7131.4	3751.2	2111.9
75°	15087.4	15373.7	17585.6	22897.2	28973.6	28960.1	21970.9	8843.7	2949.8	1554.6	1091.5
77.5°	8090.4	8543.9	11416.9	16905.3	22618.6	22958.7	15446.7	3094.0	1266.4	995.5	755.2
80°	2638.6	3034.4	4550.6	8607.3	14697.3	14633.8	6620.3	1214.5	866.7	705.3	522.8
82.5°	1120.3	1166.4	2033.2	4064.4	7542.7	7425.5	2108.1	697.6	609.2	482.4	322.9
85°	438.2	490.1	897.4	1879.4	3266.9	3195.8	761.0	345.9	390.1	315.2	192.2
87.5°	144.1	174.9	320.9	643.8	1016.6	980.1	186.4	119.1	169.1	144.1	69.2
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°	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0
2.5°	4777.3	4808.1	4844.7	4898.5	4944.6	4983.0	5023.3	5048.3	5058.0	5086.8	5084.8
5°	4812.0	4879.2	4969.5	5058.0	5144.4	5196.3	5242.5	5265.5	5286.6	5302.0	5305.8
7.5°	4869.6	4956.1	5098.2	5213.6	5286.6	5328.9	5359.6	5351.9	5359.6	5363.5	5369.3
10°	4919.6	5040.6	5209.8	5319.3	5375.0	5376.9	5369.3	5342.4	5328.9	5330.8	5334.7
12.5°	4979.1	5113.6	5296.3	5388.4	5403.8	5361.6	5328.9	5282.7	5265.5	5257.8	5253.9
15°	5059.9	5213.6	5390.4	5425.0	5386.6	5332.8	5277.0	5202.1	5163.6	5132.9	5142.5
17.5°	5157.9	5327.0	5463.5	5438.4	5355.8	5267.4	5177.1	5063.7	4984.9	4952.3	4954.1
20°	5294.3	5446.1	5519.1	5409.6	5284.7	5150.2	4996.5	4858.1	4785.0	4752.4	4748.5
22.5°	5459.6	5605.6	5572.9	5359.6	5182.8	4967.7	4775.5	4673.6	4637.1	4614.0	4617.8
25°	5657.5	5782.4	5611.4	5286.6	5015.6	4725.5	4577.5	4544.8	4527.5	4510.2	4510.2
27.5°	5915.1	5982.3	5640.3	5179.0	4754.4	4468.0	4414.2	4419.9	4414.2	4385.4	4391.1
30°	6255.2	6241.7	5667.1	5004.2	4454.5	4235.4	4239.3	4264.3	4268.1	4248.9	4258.5
32.5°	6702.9	6566.5	5680.5	4777.3	4168.2	4031.7	4035.6	4062.5	4081.8	4049.1	4064.4
35°	7244.8	6945.1	5659.4	4493.0	3947.2	3837.7	3808.8	3816.5	3822.3	3791.6	3812.7
37.5°	7877.1	7369.7	5565.2	4177.8	3764.6	3647.4	3585.9	3534.0	3503.2	3474.4	3493.7
40°	8570.8	7832.8	5392.3	3870.3	3561.0	3445.6	3353.4	3255.4	3151.6	3113.1	3130.5
42.5°	9297.3	8309.5	5182.8	3576.3	3326.4	3232.3	3134.3	2992.1	2836.5	2757.7	2767.3
45°	10050.5	8797.6	4977.2	3286.2	3086.3	3045.9	2932.5	2761.5	2592.4	2492.5	2484.8
47.5°	10788.4	9258.8	4675.5	2994.0	2861.4	2905.7	2817.2	2659.7	2471.3	2313.7	2296.4
50°	11493.7	9691.2	4181.6	2698.1	2678.8	2863.3	2778.8	2552.0	2336.8	2135.0	2117.8
52.5°	12193.3	10040.9	3549.4	2429.0	2580.8	2851.9	2728.9	2479.0	2215.7	2004.4	1981.3
55°	12787.1	10221.6	2940.2	2198.4	2438.7	2753.8	2669.3	2392.6	2044.7	1819.9	1800.6
57.5°	13125.2	10075.5	2432.8	1971.7	2242.6	2592.4	2567.4	2208.1	1841.0	1668.1	1645.0
60°	12979.3	9483.6	2017.8	1773.8	2056.3	2417.5	2390.6	2025.5	1685.3	1522.0	1499.0
62.5°	12174.0	8355.6	1689.2	1600.7	1887.1	2238.8	2213.8	1885.2	1566.2	1408.7	1383.6
65°	10552.1	6797.1	1433.6	1456.6	1716.1	2023.6	2060.0	1768.0	1472.0	1318.3	1293.3
67.5°	8048.1	4923.4	1233.7	1331.8	1548.9	1812.2	1917.9	1683.5	1393.3	1247.2	1224.2
70°	4587.1	2796.1	1064.7	1210.6	1401.0	1616.1	1808.3	1616.1	1308.7	1187.7	1172.3
72.5°	1739.1	1283.7	920.4	1089.6	1258.7	1450.9	1687.3	1510.4	1210.6	1120.3	1104.9
75°	928.1	782.2	774.5	947.4	1095.4	1289.4	1535.4	1406.7	1137.6	1183.8	1222.2
77.5°	632.2	553.5	647.6	811.0	916.7	1110.8	1374.0	1249.1	985.8	982.0	905.1
80°	438.2	392.1	526.5	653.3	709.1	934.0	1199.1	1072.4	803.3	749.5	716.8
82.5°	263.3	255.6	393.9	488.1	501.5	720.7	993.5	899.3	657.2	572.7	576.6
85°	144.1	151.8	251.7	286.4	292.1	503.5	778.3	695.7	505.4	424.7	428.6
87.5°	40.4	51.9	92.2	113.4	140.3	261.4	463.1	413.2	253.7	176.8	176.8
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)