

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: P968794

Luminaire Tested: **NAV-SB5C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968794
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-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 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: 38325.8 lumens
Efficiency: N/A
Efficacy: 153.6 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



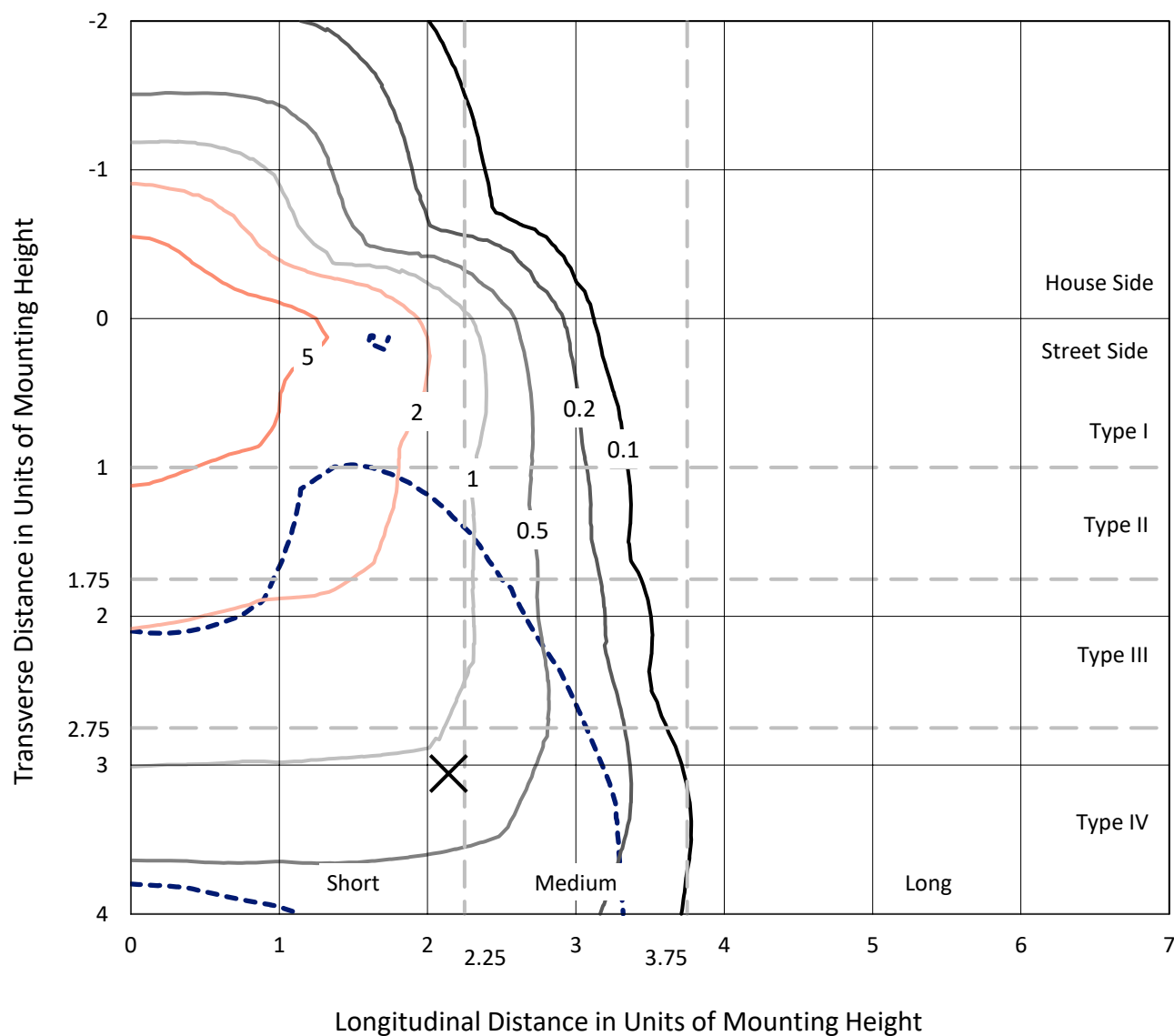
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



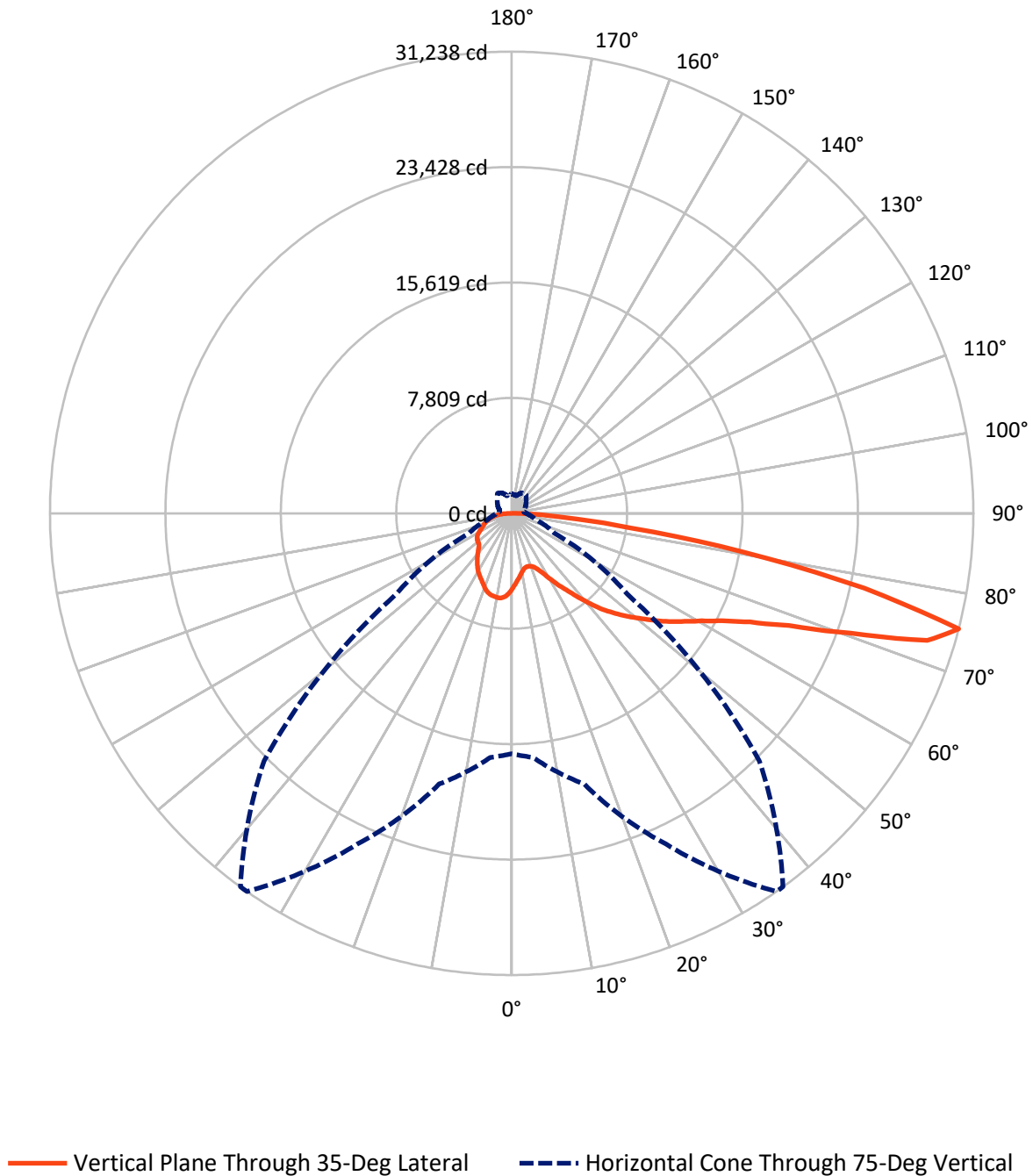
Based on 25 foot mounting height. Maximum calculated value = 9 fc

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	9120.6	0.0	9120.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	29205.2	0.0	29205.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	38325.8	0.0	38325.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.5	1.3
10°-20°	1394.8	3.6
20°-30°	2342.2	6.1
30°-40°	3640.0	9.5
40°-50°	5402.8	14.1
50°-60°	7458.9	19.5
60°-70°	9049.3	23.6
70°-80°	7478.6	19.5
80°-90°	1075.6	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°	38325.8	100.0
0°-180°	38325.8	100.0

Coefficient of Utilization



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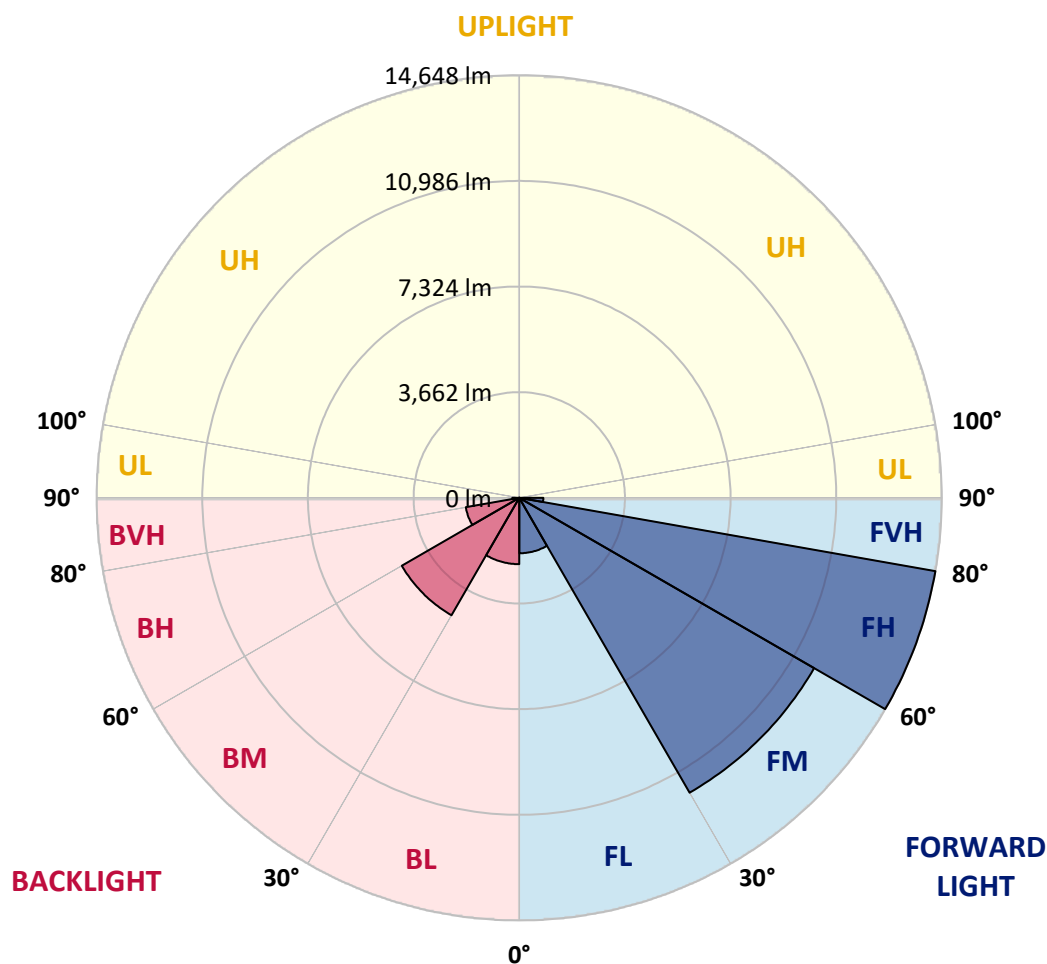
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1922.0	5.0			
FM	(30°-60°)	11802.3	30.8			
FH	(60°-80°)	14647.5	38.2			G5
FVH	(80°-90°)	833.4	2.2			G5
BL	(0°-30°)	2298.5	6.0	B3/2500		
BM	(30°-60°)	4699.5	12.3	B3/5000		
BH	(60°-80°)	1880.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	242.2	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°	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2
2.5°	4709.4	4738.4	4750.8	4744.6	4775.7	4771.5	4815.0	4868.9	4943.5	5016.0	5121.7
5°	4346.8	4377.9	4404.8	4429.6	4489.7	4508.4	4576.7	4680.4	4817.1	4955.9	5129.9
7.5°	4009.1	4036.0	4077.4	4123.1	4224.5	4243.2	4357.2	4518.7	4709.4	4912.4	5152.8
10°	3733.6	3760.4	3804.0	3855.7	3982.1	4005.0	4149.9	4365.5	4614.0	4871.0	5177.6
12.5°	3615.4	3623.7	3648.6	3700.4	3810.1	3824.7	3984.2	4230.8	4520.9	4839.9	5214.9
15°	3609.2	3625.7	3627.9	3654.7	3746.0	3752.1	3899.3	4143.8	4462.8	4833.7	5270.9
17.5°	3671.3	3683.7	3665.2	3681.7	3758.4	3768.7	3884.7	4102.4	4444.2	4860.7	5366.2
20°	3837.1	3847.4	3791.6	3768.7	3824.7	3833.0	3947.0	4129.2	4462.8	4916.5	5496.7
22.5°	4189.3	4195.5	4058.8	3965.5	3969.7	3973.8	4073.3	4239.1	4535.3	5018.1	5662.4
25°	4738.4	4734.3	4516.7	4336.5	4232.8	4210.1	4276.3	4417.2	4657.6	5152.8	5875.8
27.5°	5380.6	5349.6	5132.1	4862.7	4636.9	4603.7	4589.2	4649.3	4831.6	5330.9	6136.9
30°	6105.8	6076.8	5842.7	5490.5	5177.6	5123.8	4987.0	4955.9	5090.6	5573.3	6499.4
32.5°	6901.4	6882.8	6603.0	6176.2	5757.7	5695.6	5465.6	5382.7	5488.4	5940.1	7005.1
35°	7568.6	7552.0	7319.9	6880.7	6368.9	6292.3	6058.2	5964.9	6018.8	6410.3	7666.0
37.5°	8171.5	8163.2	7964.2	7618.3	7089.9	6996.8	6733.6	6702.5	6692.1	7029.9	8467.7
40°	8730.8	8710.1	8503.0	8320.6	7929.1	7844.1	7612.1	7585.1	7506.4	7792.4	9375.3
42.5°	9350.4	9296.5	8996.1	8911.1	8805.5	8735.0	8596.2	8600.4	8426.3	8652.1	10336.6
45°	9855.9	9824.8	9516.1	9466.4	9580.4	9551.4	9671.5	9702.5	9364.9	9553.4	11335.3
47.5°	10398.7	10369.7	10108.7	10073.5	10382.1	10390.4	10815.2	10825.5	10280.6	10489.8	12336.0
50°	11067.9	11026.5	10767.5	10811.1	11157.0	11188.1	11965.0	11894.6	11123.9	11440.8	13328.4
52.5°	11509.2	11534.1	11478.2	11548.7	12021.0	12050.0	13096.3	12916.0	11958.9	12379.4	14302.1
55°	11834.5	11884.3	12058.3	12219.9	12932.6	12961.6	14163.3	13887.7	12650.9	13249.7	15217.9
57.5°	12253.1	12182.6	12507.9	12822.9	13798.7	13875.3	15201.4	14824.3	13264.1	13999.7	15845.7
60°	12853.9	12804.2	13057.0	13523.1	14768.3	14890.6	16299.4	15667.5	13713.8	14594.3	15968.0
62.5°	14072.1	13947.9	13987.3	14399.5	15990.7	16152.4	17538.4	16403.1	13937.5	14826.3	15313.2
65°	15893.3	15679.9	15481.1	15767.0	17712.4	17872.0	18936.9	16981.1	13854.6	14376.8	13574.9
67.5°	18186.9	17975.5	17731.1	18000.4	20248.5	20374.8	20662.8	17306.4	13202.0	12644.6	10502.4
70°	20078.5	19999.8	20291.9	21400.4	24299.0	24303.1	22875.5	17037.0	11414.0	8965.0	6076.8
72.5°	19827.8	19780.1	21319.6	24746.5	29404.1	29294.2	24970.2	14998.3	7688.7	4044.3	2277.0
75°	16266.2	16575.0	18959.7	24686.4	31237.6	31223.1	23687.7	9534.8	3180.4	1676.2	1176.8
77.5°	8722.5	9211.6	12309.0	18226.2	24386.0	24752.7	16653.7	3335.8	1365.4	1073.3	814.3
80°	2844.7	3271.5	4906.2	9279.9	15845.7	15777.3	7137.6	1309.4	934.4	760.3	563.5
82.5°	1207.9	1257.7	2192.1	4382.0	8132.1	8005.8	2272.8	752.0	656.8	520.1	348.1
85°	472.4	528.3	967.6	2026.3	3522.2	3445.5	820.5	372.9	420.6	339.8	207.2
87.5°	155.4	188.5	346.0	694.0	1096.0	1056.7	201.0	128.4	182.3	155.4	74.6
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°	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2	5107.2
2.5°	5150.7	5183.8	5223.2	5281.2	5330.9	5372.3	5415.9	5442.9	5453.2	5484.3	5482.2
5°	5187.9	5260.5	5357.9	5453.2	5546.4	5602.3	5652.1	5677.0	5699.7	5716.3	5720.4
7.5°	5250.2	5343.3	5496.7	5621.0	5699.7	5745.3	5778.4	5770.1	5778.4	5782.6	5788.8
10°	5304.0	5434.5	5616.9	5735.0	5795.0	5797.1	5788.8	5759.8	5745.3	5747.4	5751.5
12.5°	5368.2	5513.3	5710.1	5809.5	5826.1	5780.5	5745.3	5695.6	5677.0	5668.7	5664.5
15°	5455.3	5621.0	5811.6	5848.9	5807.4	5749.4	5689.4	5608.6	5567.1	5534.0	5544.3
17.5°	5560.9	5743.3	5890.4	5863.4	5774.3	5679.0	5581.6	5459.4	5374.5	5339.2	5341.3
20°	5708.0	5871.7	5950.4	5832.4	5697.7	5552.6	5386.9	5237.6	5158.9	5123.8	5119.6
22.5°	5886.2	6043.6	6008.4	5778.4	5587.9	5355.8	5148.6	5038.8	4999.4	4974.5	4978.7
25°	6099.6	6234.3	6049.9	5699.7	5407.6	5094.8	4935.2	4900.0	4881.4	4862.7	4862.7
27.5°	6377.2	6449.7	6080.9	5583.7	5125.8	4817.1	4759.1	4765.3	4759.1	4728.0	4734.3
30°	6744.0	6729.4	6109.9	5395.2	4802.6	4566.4	4570.6	4597.5	4601.6	4580.9	4591.3
32.5°	7226.7	7079.6	6124.5	5150.7	4493.9	4346.8	4350.9	4379.9	4400.6	4365.5	4382.0
35°	7811.0	7487.7	6101.6	4844.0	4255.6	4137.5	4106.5	4114.8	4120.9	4087.8	4110.6
37.5°	8492.6	7945.6	6000.1	4504.3	4058.8	3932.4	3866.1	3810.1	3777.0	3746.0	3766.7
40°	9240.6	8445.0	5813.7	4172.8	3839.1	3714.9	3615.4	3509.8	3397.9	3356.5	3375.1
42.5°	10023.7	8958.8	5587.9	3855.7	3586.4	3484.9	3379.2	3225.9	3058.1	2973.1	2983.5
45°	10835.9	9485.0	5366.2	3542.9	3327.5	3283.9	3161.7	2977.3	2795.0	2687.2	2678.9
47.5°	11631.5	9982.3	5040.8	3227.9	3085.0	3132.7	3037.4	2867.4	2664.4	2494.5	2475.9
50°	12391.8	10448.4	4508.4	2909.0	2888.1	3087.1	2996.0	2751.4	2519.3	2301.8	2283.2
52.5°	13146.0	10825.5	3826.7	2618.9	2782.6	3074.7	2942.1	2672.7	2388.9	2161.0	2136.1
55°	13786.2	11020.3	3170.0	2370.2	2629.2	2969.0	2877.8	2579.5	2204.5	1962.1	1941.4
57.5°	14150.9	10862.8	2623.0	2125.7	2417.9	2795.0	2768.0	2380.6	1984.8	1798.4	1773.6
60°	13993.4	10224.7	2175.5	1912.3	2216.9	2606.4	2577.4	2183.8	1817.0	1640.9	1616.0
62.5°	13125.3	9008.5	1821.2	1725.9	2034.6	2413.8	2386.8	2032.5	1688.6	1518.6	1491.8
65°	11376.7	7328.2	1545.6	1570.5	1850.2	2181.7	2221.1	1906.1	1587.0	1421.3	1394.4
67.5°	8677.0	5308.2	1330.1	1435.8	1669.9	1953.8	2067.7	1815.0	1502.1	1344.6	1319.8
70°	4945.5	3014.6	1147.8	1305.2	1510.4	1742.4	1949.7	1742.4	1410.9	1280.4	1263.8
72.5°	1875.0	1384.1	992.4	1174.8	1357.1	1564.3	1819.1	1628.5	1305.2	1207.9	1191.4
75°	1000.7	843.3	835.0	1021.4	1181.0	1390.2	1655.5	1516.6	1226.5	1276.2	1317.7
77.5°	681.6	596.7	698.2	874.3	988.3	1197.5	1481.4	1346.7	1062.8	1058.7	975.9
80°	472.4	422.7	567.6	704.5	764.5	1007.0	1292.8	1156.1	866.0	808.0	772.8
82.5°	283.8	275.5	424.8	526.2	540.8	776.9	1071.1	969.6	708.6	617.5	621.6
85°	155.4	163.7	271.4	308.7	314.9	542.8	839.1	750.0	544.9	457.9	462.1
87.5°	43.5	56.0	99.4	122.3	151.3	281.8	499.3	445.5	273.5	190.6	190.6
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)