

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: P966717

Luminaire Tested: **NAV-SB4C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966717
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-SB4C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32169.6 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 200.7
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



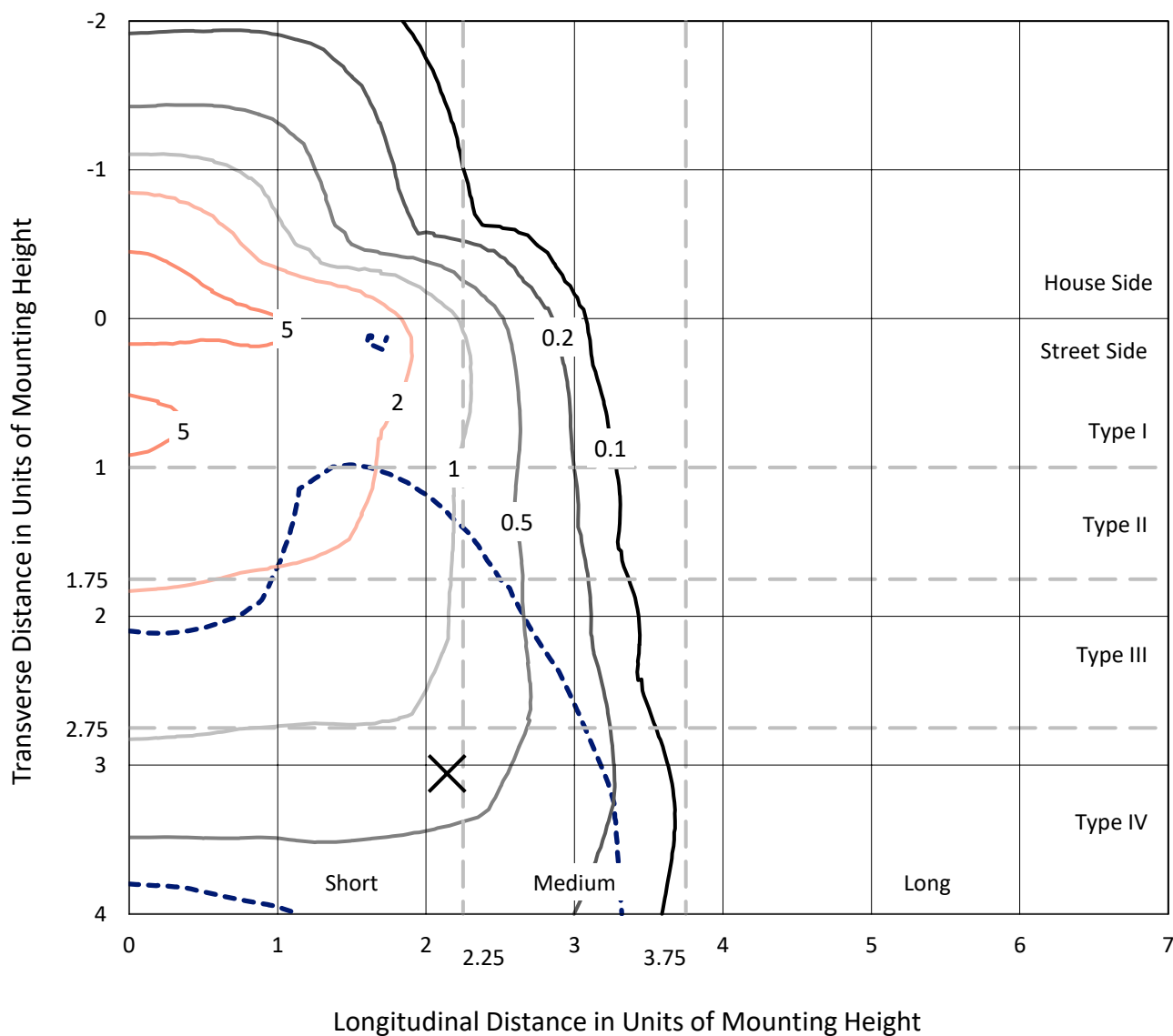
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

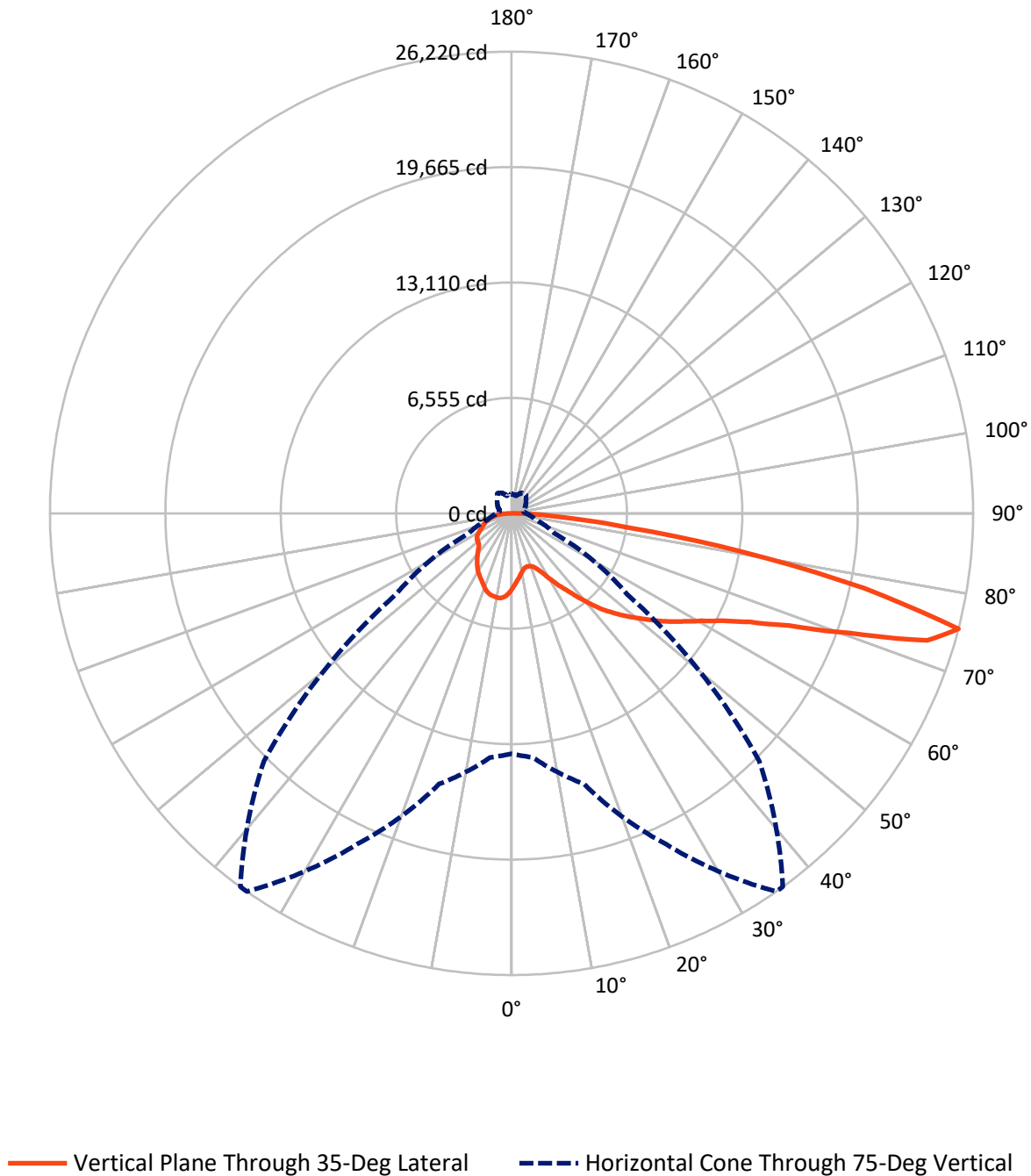


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

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	7655.6	0.0	7655.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24514.0	0.0	24514.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	32169.6	0.0	32169.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.3
10°-20°	1170.7	3.6
20°-30°	1965.9	6.1
30°-40°	3055.4	9.5
40°-50°	4535.0	14.1
50°-60°	6260.8	19.5
60°-70°	7595.8	23.6
70°-80°	6277.3	19.5
80°-90°	902.9	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°	32169.6	100.0
0°-180°	32169.6	100.0

Coefficient of Utilization



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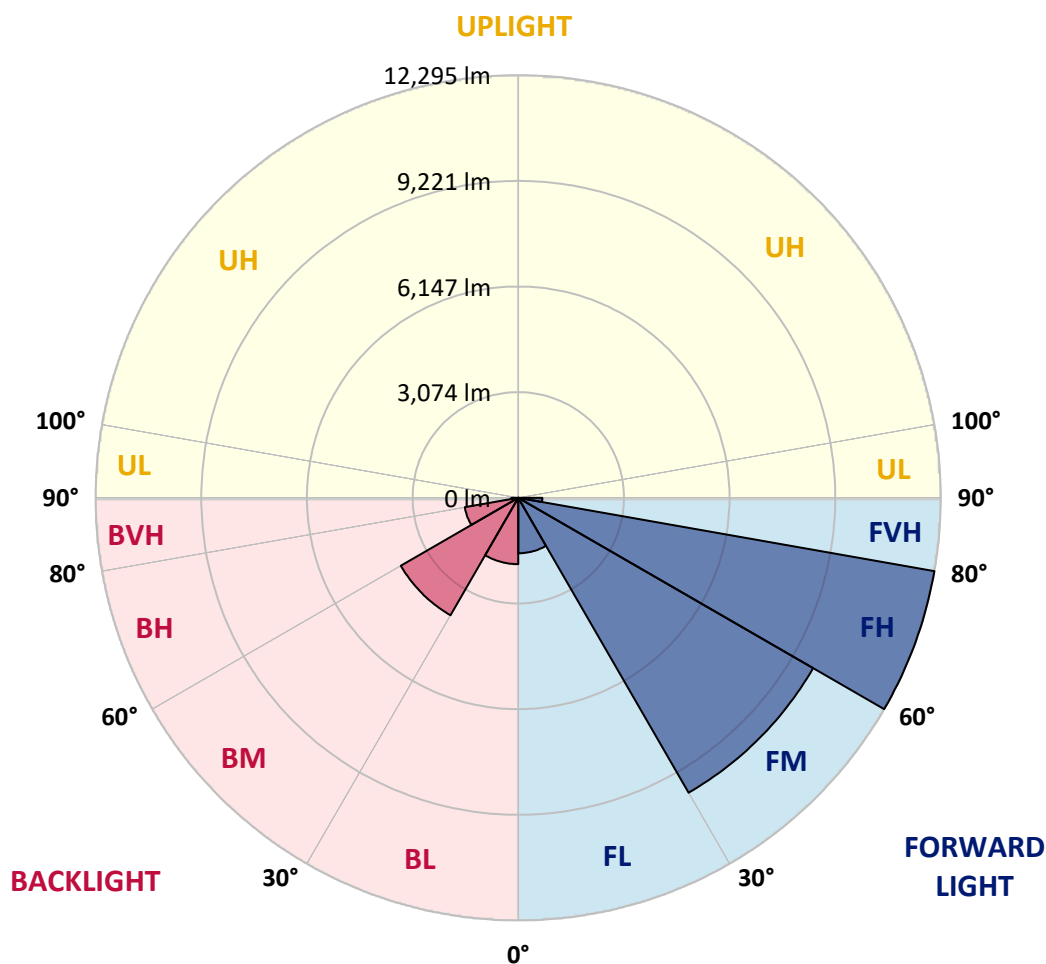
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1613.2	5.0			
FM	(30°-60°)	9906.5	30.8			
FH	(60°-80°)	12294.7	38.2			G5
FVH	(80°-90°)	699.6	2.2			G4/750
BL	(0°-30°)	1929.3	6.0	B3/2500		
BM	(30°-60°)	3944.6	12.3	B3/5000		
BH	(60°-80°)	1578.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	203.3	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°	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9
2.5°	3952.9	3977.3	3987.7	3982.4	4008.6	4005.1	4041.6	4086.8	4149.4	4210.3	4299.0
5°	3648.6	3674.6	3697.3	3718.2	3768.6	3784.2	3841.6	3928.6	4043.3	4159.9	4305.9
7.5°	3365.1	3387.7	3422.5	3460.8	3546.0	3561.7	3657.3	3792.9	3952.9	4123.4	4325.1
10°	3133.8	3156.4	3193.0	3236.4	3342.5	3361.6	3483.4	3664.3	3873.0	4088.5	4345.9
12.5°	3034.7	3041.7	3062.5	3106.0	3198.2	3210.3	3344.3	3551.2	3794.7	4062.5	4377.3
15°	3029.5	3043.4	3045.1	3067.7	3144.3	3149.4	3272.9	3478.1	3746.0	4057.3	4424.2
17.5°	3081.7	3092.1	3076.4	3090.4	3154.6	3163.4	3260.7	3443.4	3730.3	4079.9	4504.2
20°	3220.8	3229.5	3182.5	3163.4	3210.3	3217.3	3312.9	3465.9	3746.0	4126.9	4613.7
22.5°	3516.4	3521.6	3406.9	3328.6	3332.1	3335.6	3419.0	3558.2	3806.8	4212.0	4752.9
25°	3977.3	3973.8	3791.2	3639.9	3553.0	3533.8	3589.4	3707.7	3909.5	4325.1	4932.0
27.5°	4516.4	4490.3	4307.7	4081.7	3892.0	3864.2	3852.1	3902.5	4055.5	4474.6	5151.1
30°	5125.1	5100.7	4904.2	4608.5	4345.9	4300.7	4186.0	4159.9	4272.9	4678.1	5455.5
32.5°	5792.9	5777.2	5542.5	5184.1	4832.9	4780.7	4587.7	4518.1	4606.8	4985.9	5879.8
35°	6352.8	6338.9	6144.2	5775.5	5345.9	5281.6	5085.0	5006.8	5052.0	5380.7	6434.5
37.5°	6858.9	6851.9	6685.0	6394.6	5951.2	5872.8	5652.0	5625.9	5617.2	5900.7	7107.6
40°	7328.4	7311.1	7137.2	6984.1	6655.4	6584.1	6389.3	6366.8	6300.7	6540.6	7869.3
42.5°	7848.4	7803.2	7551.1	7479.7	7391.1	7331.9	7215.4	7218.9	7072.8	7262.3	8676.2
45°	8272.8	8246.7	7987.6	7945.8	8041.4	8017.1	8118.0	8144.1	7860.6	8018.9	9514.5
47.5°	8728.4	8704.1	8484.9	8455.4	8714.6	8721.4	9078.0	9086.6	8629.3	8805.0	10354.4
50°	9290.2	9255.3	9037.9	9074.5	9364.9	9391.0	10043.2	9984.0	9337.1	9603.1	11187.5
52.5°	9660.5	9681.4	9634.5	9693.6	10090.1	10114.5	10992.7	10841.4	10037.9	10390.9	12004.8
55°	9933.6	9975.3	10121.5	10257.1	10855.3	10879.7	11888.4	11657.0	10618.8	11121.4	12773.6
57.5°	10284.8	10225.8	10498.8	10763.1	11582.2	11646.6	12759.6	12443.1	11133.6	11750.9	13300.4
60°	10789.3	10747.5	10959.6	11351.0	12396.1	12498.7	13681.3	13150.9	11511.0	12250.1	13403.0
62.5°	11811.8	11707.4	11740.5	12086.6	13422.2	13557.9	14721.3	13768.2	11698.7	12444.8	12853.5
65°	13340.5	13161.3	12994.3	13234.4	14867.3	15001.3	15895.2	14253.4	11629.2	12067.4	11394.4
67.5°	15265.6	15088.2	14883.0	15109.1	16995.9	17102.0	17343.8	14526.5	11081.4	10613.6	8815.4
70°	16853.4	16787.2	17032.5	17962.9	20395.9	20399.3	19201.1	14300.4	9580.6	7524.9	5100.7
72.5°	16642.9	16602.9	17895.1	20771.5	24681.0	24588.8	20959.3	12589.2	6453.7	3394.7	1911.2
75°	13653.5	13912.6	15914.3	20721.1	26220.0	26207.8	19882.8	8003.2	2669.5	1406.9	987.8
77.5°	7321.5	7731.9	10331.8	15298.6	20468.9	20776.8	13978.6	2799.9	1146.1	900.9	683.5
80°	2387.7	2746.0	4118.1	7789.3	13300.4	13243.1	5991.1	1099.1	784.3	638.3	473.0
82.5°	1013.9	1055.6	1840.0	3678.1	6825.9	6719.8	1907.7	631.3	551.2	436.5	292.1
85°	396.5	443.4	812.1	1700.8	2956.4	2892.0	688.7	313.0	353.0	285.3	173.9
87.5°	130.4	158.3	290.4	582.6	919.9	886.9	168.7	107.8	153.0	130.4	62.6
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°	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9	4286.9
2.5°	4323.3	4351.1	4384.2	4432.9	4474.6	4509.4	4546.0	4568.5	4577.2	4603.4	4601.6
5°	4354.6	4415.5	4497.3	4577.2	4655.5	4702.5	4744.2	4765.0	4784.2	4798.1	4801.6
7.5°	4406.8	4485.1	4613.7	4718.1	4784.2	4822.4	4850.3	4843.3	4850.3	4853.8	4859.0
10°	4452.0	4561.6	4714.6	4813.8	4864.2	4866.0	4859.0	4834.6	4822.4	4824.2	4827.6
12.5°	4505.9	4627.7	4792.9	4876.3	4890.3	4852.0	4822.4	4780.7	4765.0	4758.2	4754.7
15°	4579.0	4718.1	4878.1	4909.4	4874.6	4825.9	4775.5	4707.7	4672.9	4645.1	4653.8
17.5°	4667.6	4820.7	4944.2	4921.5	4846.8	4766.8	4685.1	4582.5	4511.1	4481.6	4483.3
20°	4791.2	4928.5	4994.6	4895.5	4782.4	4660.7	4521.6	4396.4	4330.3	4300.7	4297.2
22.5°	4940.7	5072.9	5043.3	4850.3	4690.3	4495.5	4321.6	4229.5	4196.3	4175.5	4179.0
25°	5119.9	5232.8	5078.1	4784.2	4539.0	4276.4	4142.4	4112.9	4097.2	4081.7	4081.7
27.5°	5352.9	5413.7	5104.2	4686.8	4302.4	4043.3	3994.6	3999.9	3994.6	3968.6	3973.8
30°	5660.7	5648.5	5128.5	4528.6	4031.2	3832.9	3836.4	3859.0	3862.5	3845.1	3853.8
32.5°	6065.8	5942.4	5140.7	4323.3	3772.1	3648.6	3652.1	3676.4	3693.8	3664.3	3678.1
35°	6556.3	6285.0	5121.6	4066.0	3572.0	3472.9	3446.9	3453.8	3459.1	3431.2	3450.4
37.5°	7128.5	6669.4	5036.3	3780.7	3406.9	3300.8	3245.1	3198.2	3170.3	3144.3	3161.6
40°	7756.3	7088.5	4879.8	3502.5	3222.5	3118.2	3034.7	2946.0	2852.1	2817.3	2833.0
42.5°	8413.6	7519.8	4690.3	3236.4	3010.3	2925.1	2836.5	2707.7	2566.9	2495.6	2504.3
45°	9095.3	7961.5	4504.2	2973.8	2792.9	2756.4	2653.8	2499.1	2346.0	2255.6	2248.6
47.5°	9763.1	8378.9	4231.2	2709.5	2589.5	2629.4	2549.5	2406.9	2236.4	2093.9	2078.2
50°	10401.4	8770.1	3784.2	2441.7	2424.2	2591.2	2514.7	2309.5	2114.7	1932.1	1916.4
52.5°	11034.4	9086.6	3212.0	2198.2	2335.6	2580.7	2469.5	2243.4	2005.1	1813.8	1793.0
55°	11571.8	9250.1	2660.8	1989.5	2206.9	2492.1	2415.6	2165.1	1850.3	1646.9	1629.5
57.5°	11877.9	9118.0	2201.7	1784.3	2029.5	2346.0	2323.4	1998.2	1666.0	1509.5	1488.6
60°	11745.7	8582.3	1826.0	1605.1	1860.8	2187.8	2163.4	1833.0	1525.2	1377.4	1356.5
62.5°	11017.0	7561.5	1528.7	1448.6	1707.8	2026.0	2003.5	1706.0	1417.4	1274.8	1252.1
65°	9549.3	6151.1	1297.3	1318.3	1553.0	1831.3	1864.3	1599.9	1332.1	1193.0	1170.4
67.5°	7283.2	4455.5	1116.5	1205.2	1401.7	1639.9	1735.6	1523.5	1260.9	1128.6	1107.8
70°	4151.1	2530.3	963.4	1095.6	1267.8	1462.6	1636.5	1462.6	1184.3	1074.7	1060.9
72.5°	1573.9	1161.7	833.0	986.0	1139.1	1313.0	1526.9	1366.9	1095.6	1013.9	1000.0
75°	840.0	707.8	700.9	857.4	991.3	1167.0	1389.5	1273.0	1029.5	1071.2	1106.1
77.5°	572.2	500.8	586.1	733.9	829.5	1005.2	1243.4	1130.4	892.2	888.7	819.1
80°	396.5	354.8	476.5	591.3	641.8	845.2	1085.2	970.4	726.9	678.2	648.7
82.5°	238.2	231.3	356.5	441.8	453.9	652.1	899.1	813.8	594.8	518.2	521.7
85°	130.4	137.4	227.9	259.1	264.3	455.6	704.3	629.6	457.4	384.4	387.9
87.5°	36.5	46.9	83.4	102.6	127.0	236.5	419.1	373.9	229.6	160.0	160.0
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)