

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: P885304

Luminaire Tested: **NAV-SB6C-740-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48580 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

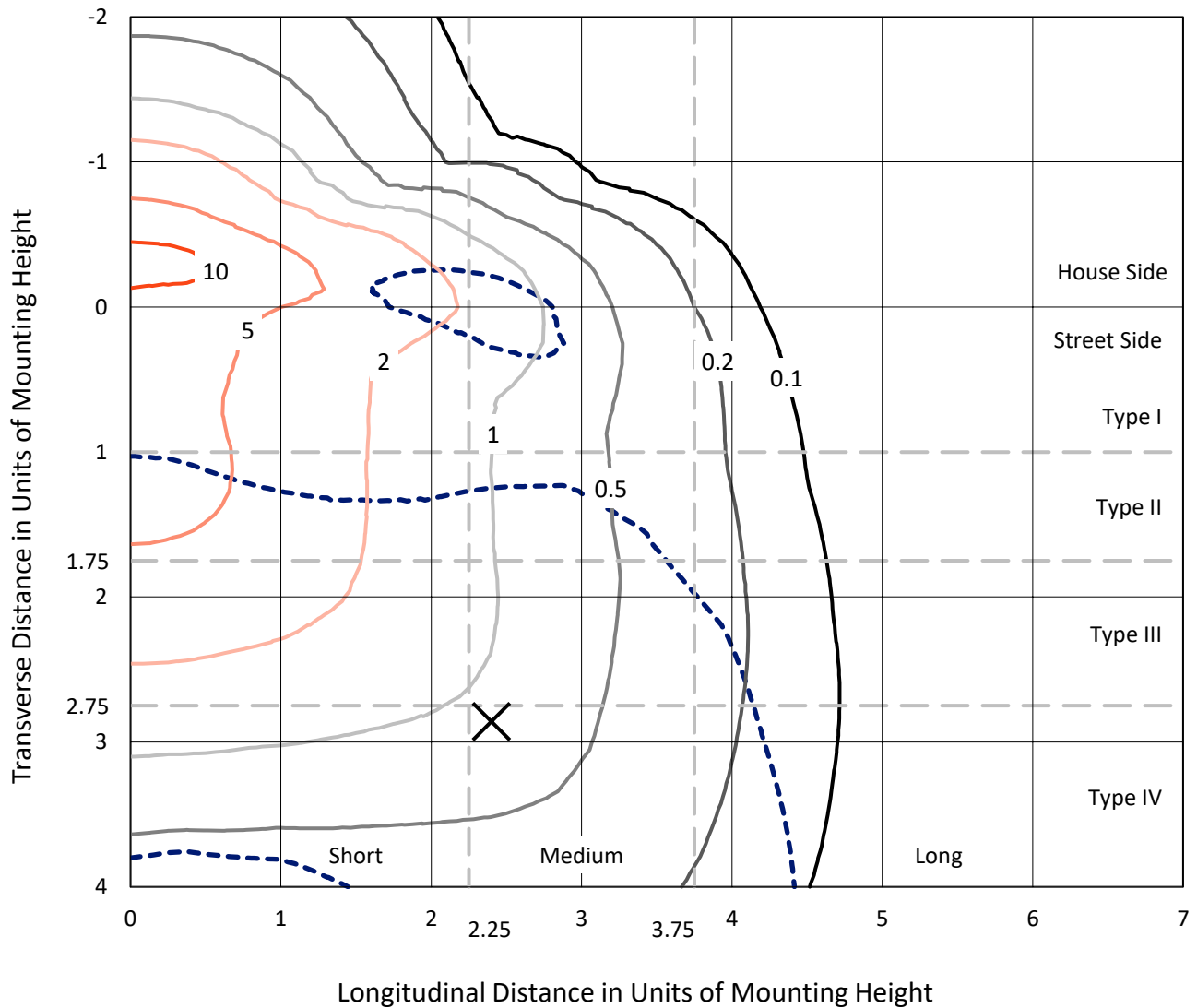
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

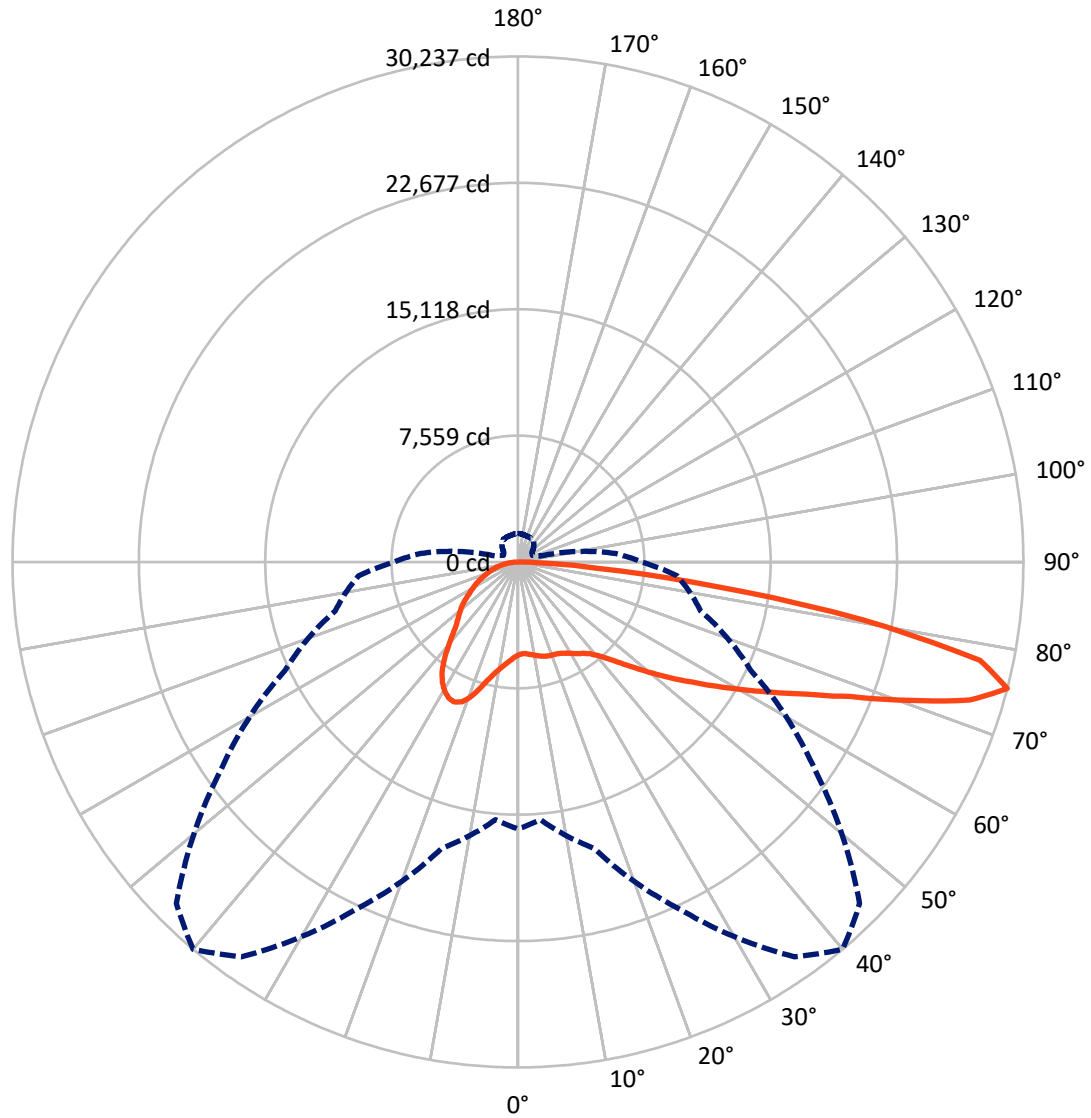
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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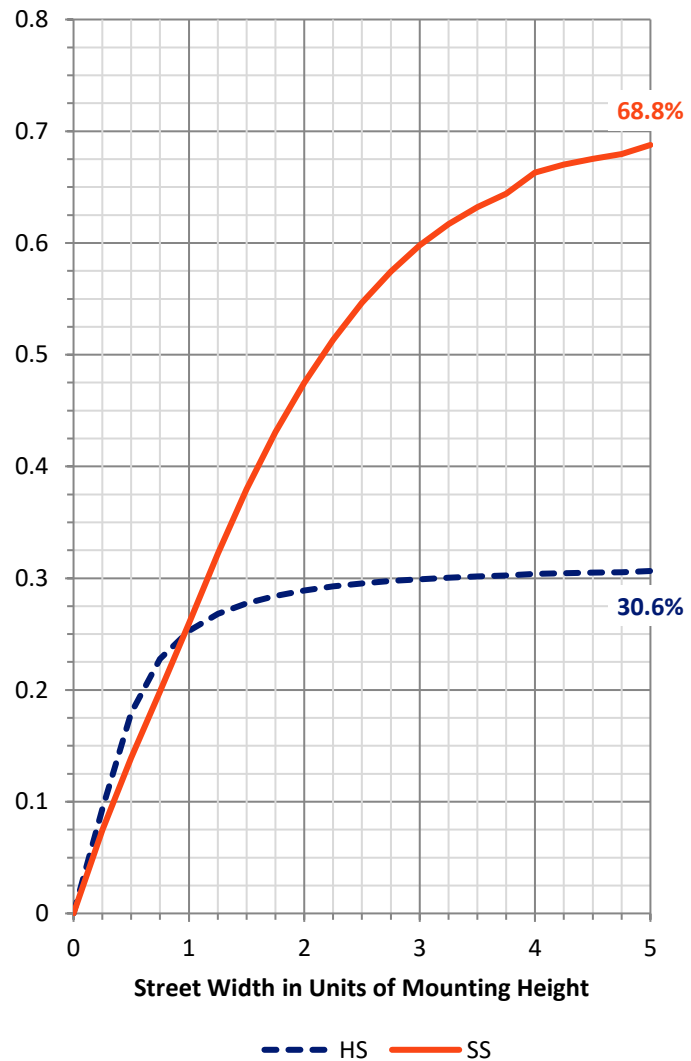
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15051.7	0.0	15051.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	33528.3	0.0	33528.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	48580.0	0.0	48580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.5	1.1
10°-20°	1861.8	3.8
20°-30°	3399.4	7.0
30°-40°	4821.3	9.9
40°-50°	6510.2	13.4
50°-60°	8758.0	18.0
60°-70°	11115.9	22.9
70°-80°	10088.3	20.8
80°-90°	1470.6	3.0
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°	48580.0	100.0
0°-180°	48580.0	100.0

Coefficient of Utilization



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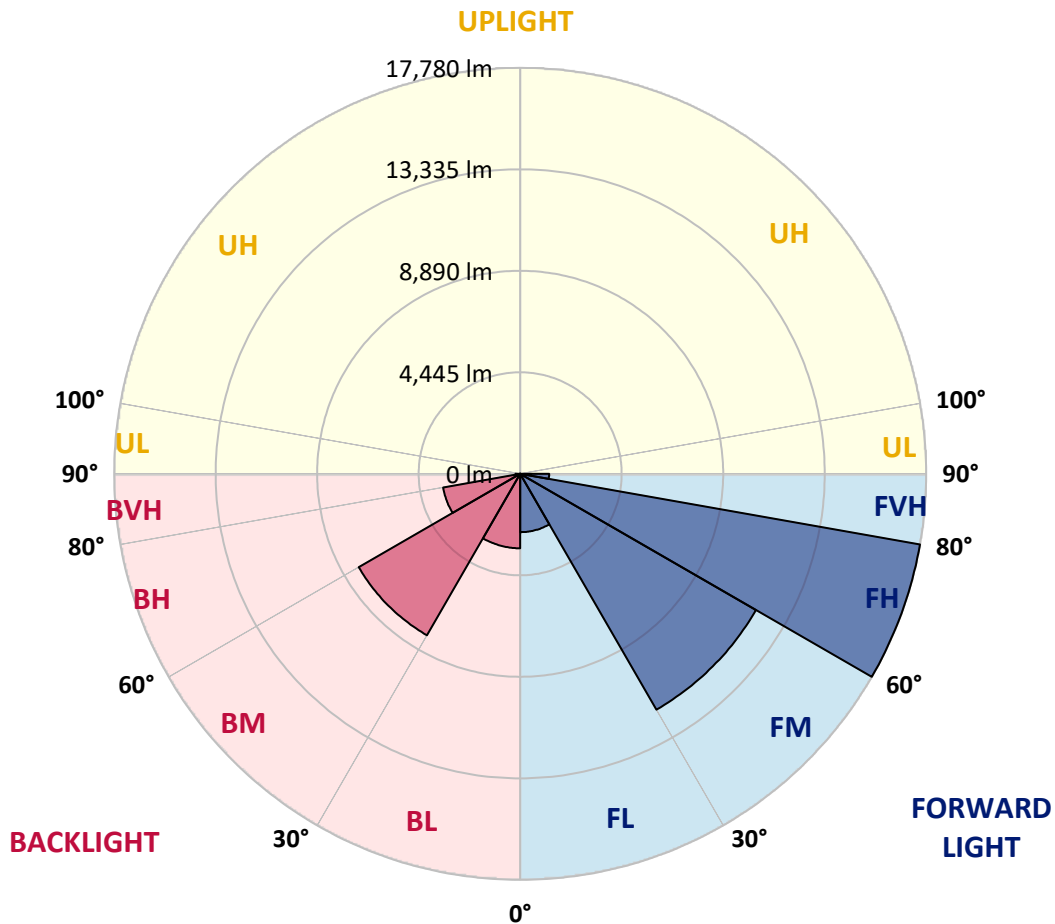
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.4	5.3			
FM (30°-60°)	11925.3	24.5			
FH (60°-80°)	17779.5	36.6			G5
FVH (80°-90°)	1268.1	2.6			G5
BL (0°-30°)	3260.3	6.7	B4/5000		
BM (30°-60°)	8164.2	16.8	B4/8500		
BH (60°-80°)	3424.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	202.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2
2.5°	5470.2	5501.1	5493.3	5483.0	5483.0	5485.6	5483.0	5501.1	5519.1	5537.2	5565.5
5°	5526.8	5557.8	5542.3	5529.4	5519.1	5516.5	5508.8	5506.2	5516.5	5539.7	5578.4
7.5°	5637.6	5668.6	5645.4	5622.2	5601.6	5591.3	5581.0	5565.5	5557.8	5570.6	5624.8
10°	5761.3	5792.2	5763.9	5722.7	5689.2	5676.3	5666.0	5650.5	5640.2	5647.9	5707.2
12.5°	5885.0	5915.9	5877.3	5820.6	5776.8	5769.0	5756.2	5751.0	5748.4	5745.9	5805.1
15°	6000.9	6026.7	5977.8	5910.8	5864.4	5851.5	5838.6	5846.3	5859.2	5874.7	5941.7
17.5°	6091.1	6116.9	6044.7	5957.1	5913.3	5908.2	5900.5	5926.2	5962.3	6000.9	6083.4
20°	6173.6	6199.3	6106.6	5988.1	5936.5	5936.5	5939.1	5993.2	6044.7	6101.4	6214.8
22.5°	6289.5	6310.1	6196.8	6034.4	5959.7	5964.9	5985.5	6039.6	6104.0	6181.3	6338.5
25°	6462.2	6477.6	6338.5	6122.0	6037.0	6052.5	6070.5	6096.3	6158.1	6248.3	6459.6
27.5°	6740.4	6753.3	6570.4	6276.6	6147.8	6173.6	6199.3	6181.3	6209.6	6286.9	6557.5
30°	7132.1	7139.8	6907.9	6518.8	6335.9	6348.8	6353.9	6279.2	6225.1	6286.9	6627.1
32.5°	7595.9	7593.3	7317.6	6812.6	6549.8	6536.9	6493.1	6346.2	6220.0	6274.1	6688.9
35°	8314.7	8286.4	7930.8	7224.8	6792.0	6712.1	6609.0	6420.9	6245.7	6261.2	6743.0
37.5°	9505.1	9417.5	8925.4	7899.9	7152.7	6949.1	6797.1	6542.0	6302.4	6256.0	6807.4
40°	10847.6	10736.8	10195.7	8824.9	7693.8	7366.5	7121.8	6714.7	6395.2	6279.2	6902.8
42.5°	12439.9	12282.7	11700.4	9914.8	8379.2	7905.1	7536.6	6933.7	6531.7	6353.9	7031.6
45°	14395.6	14186.9	13362.3	11143.9	9242.3	8611.1	8118.9	7266.1	6740.4	6498.2	7224.8
47.5°	16371.8	16423.4	15251.0	12550.7	10278.1	9482.0	8848.1	7765.9	7044.5	6730.1	7536.6
50°	18471.8	18507.8	17129.4	14109.6	11453.1	10466.2	9667.5	8325.1	7467.0	7059.9	8003.0
52.5°	20110.5	20115.7	18835.1	15740.6	12677.0	11548.4	10551.2	8964.1	7956.6	7498.0	8623.9
55°	21136.0	21123.1	20030.6	17284.0	14083.8	12684.7	11530.4	9690.7	8554.4	8013.3	9404.7
57.5°	21880.6	21842.0	20855.1	18610.9	15583.4	14027.1	12638.3	10515.2	9260.4	8626.5	10432.7
60°	22164.1	22140.9	21414.3	19757.5	17160.3	15511.2	13916.3	11437.6	10061.7	9350.5	11754.5
62.5°	22272.3	22316.1	21963.1	20868.0	18848.0	17155.1	15320.6	12540.4	10963.5	10169.9	13148.5
65°	22653.6	22733.5	22661.4	22321.2	20754.7	19079.9	17183.5	13851.9	11947.8	11048.5	14604.3
67.5°	23408.6	23488.4	23519.4	24060.5	23083.9	21478.7	19507.6	15485.5	13099.5	11960.7	15699.3
70°	23390.5	23367.3	23913.6	25444.1	26000.6	24799.9	22640.7	17495.2	14472.9	12718.2	15838.5
72.5°	21290.6	21105.1	22396.0	25428.6	28427.8	28268.1	26467.0	20087.3	15658.1	12810.9	13743.7
75°	15972.5	15477.7	17758.0	22916.4	28832.4	30236.6	28899.3	21695.1	15377.3	11319.1	9564.4
77.5°	6830.6	6333.3	9020.7	16964.5	25804.8	28265.5	26668.0	18927.8	12275.0	7485.1	4697.2
80°	1788.2	1785.6	2726.1	7691.2	17549.3	20873.2	18312.0	12223.5	7013.6	2674.5	1296.0
82.5°	739.5	721.5	1002.3	2991.5	8575.0	11713.3	9559.3	5452.1	2532.8	724.0	430.3
85°	275.7	273.1	487.0	1033.2	3024.9	4831.2	3496.5	1394.0	631.3	353.0	193.2
87.5°	77.3	74.7	105.6	358.1	736.9	1118.3	597.8	229.3	177.8	139.1	56.7
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°	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2	5555.2
2.5°	5573.2	5586.1	5609.3	5627.3	5650.5	5676.3	5712.4	5735.6	5758.7	5774.2	5763.9
5°	5596.4	5624.8	5684.0	5743.3	5812.8	5877.3	5952.0	6006.1	6049.9	6062.8	6067.9
7.5°	5647.9	5694.3	5794.8	5895.3	6006.1	6111.7	6220.0	6312.7	6387.4	6415.8	6418.4
10°	5738.1	5800.0	5941.7	6083.4	6230.3	6392.6	6531.7	6665.7	6771.4	6815.2	6817.7
12.5°	5851.5	5928.8	6114.3	6310.1	6513.7	6737.9	6918.2	7083.1	7214.5	7273.8	7273.8
15°	5998.4	6098.9	6335.9	6598.7	6897.6	7209.4	7438.7	7621.6	7768.5	7840.6	7835.5
17.5°	6158.1	6292.1	6591.0	6987.8	7415.5	7825.2	8093.2	8227.1	8379.2	8448.7	8446.2
20°	6312.7	6477.6	6905.3	7482.5	8051.9	8487.4	8703.8	8739.9	8750.2	8757.9	8778.5
22.5°	6472.5	6694.1	7299.6	8106.0	8716.7	9018.2	9049.1	8894.5	8678.0	8577.6	8605.9
25°	6647.7	6941.4	7814.9	8794.0	9288.7	9324.8	9087.7	8711.5	8301.9	8113.8	8142.1
27.5°	6817.7	7227.4	8433.3	9451.0	9701.0	9384.0	8873.9	8340.5	7845.8	7647.4	7670.6
30°	6987.8	7554.6	9116.1	10025.6	9889.1	9237.2	8536.3	7941.1	7443.8	7235.1	7258.3
32.5°	7160.4	7936.0	9901.9	10440.5	9855.6	8925.4	8116.3	7492.8	7054.8	6835.8	6864.1
35°	7356.2	8404.9	10646.6	10667.2	9631.4	8466.8	7562.4	6956.9	6575.5	6400.3	6439.0
37.5°	7611.3	9000.1	11303.6	10723.9	9239.8	7794.3	6874.4	6323.0	6008.7	5928.8	5985.5
40°	7928.3	9716.4	11806.1	10633.7	8660.0	6977.5	6122.0	5681.4	5503.7	5521.7	5583.5
42.5°	8340.5	10517.8	12159.1	10401.8	7853.5	6134.9	5462.4	5266.6	5351.6	5423.8	5490.8
45°	8876.4	11350.0	12378.1	10007.6	6941.4	5421.2	5073.4	5119.7	5184.2	5191.9	5243.4
47.5°	9561.8	12192.6	12522.4	9412.4	6011.2	4918.8	4826.0	4836.3	4823.4	4769.3	4810.5
50°	10417.3	13011.9	12651.2	8623.9	5220.2	4604.4	4480.7	4444.7	4266.9	4091.7	4114.9
52.5°	11391.2	13764.3	12705.3	7644.8	4604.4	4341.6	4140.6	3913.9	3581.5	3527.4	3545.4
55°	12473.4	14460.0	12566.2	6441.5	4086.5	4004.1	3700.0	3426.9	3390.8	3344.4	3352.2
57.5°	13766.9	15209.8	12282.7	5099.1	3555.7	3609.8	3313.5	3344.4	3280.0	3207.9	3195.0
60°	15181.4	15985.3	11785.4	3875.2	3006.9	3117.7	3213.0	3210.5	3192.4	3133.2	3112.6
62.5°	16454.3	16495.5	10806.3	2968.3	2525.1	2736.4	2996.6	2994.0	2978.6	2945.1	2932.2
65°	17211.8	16418.2	9172.8	2337.0	2128.3	2422.0	2702.9	2723.5	2726.1	2723.5	2723.5
67.5°	17077.8	15513.8	6931.1	1860.3	1801.1	2102.5	2411.7	2440.1	2460.7	2465.8	2471.0
70°	15562.8	13527.2	4519.4	1484.1	1509.9	1821.7	2136.0	2164.4	2182.4	2203.0	2213.3
72.5°	12130.7	9945.7	2586.9	1200.7	1254.8	1579.5	1862.9	1896.4	1906.7	1945.3	1960.8
75°	7392.3	5848.9	1396.5	945.6	1030.6	1350.1	1592.3	1631.0	1649.0	1695.4	1700.6
77.5°	3514.5	2532.8	796.2	736.9	829.7	1102.8	1345.0	1388.8	1339.8	1365.6	1345.0
80°	1187.8	940.5	502.4	561.7	633.8	860.6	1077.0	1120.8	1017.8	1012.6	1002.3
82.5°	414.8	381.3	319.5	373.6	409.7	615.8	814.2	870.9	757.5	754.9	718.9
85°	162.3	154.6	177.8	203.6	244.8	378.8	535.9	564.3	466.4	376.2	371.0
87.5°	33.5	36.1	43.8	46.4	74.7	131.4	193.2	237.0	188.1	159.8	146.9
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)