

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: P971431

Luminaire Tested: **NAV-SB6D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63127.7 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

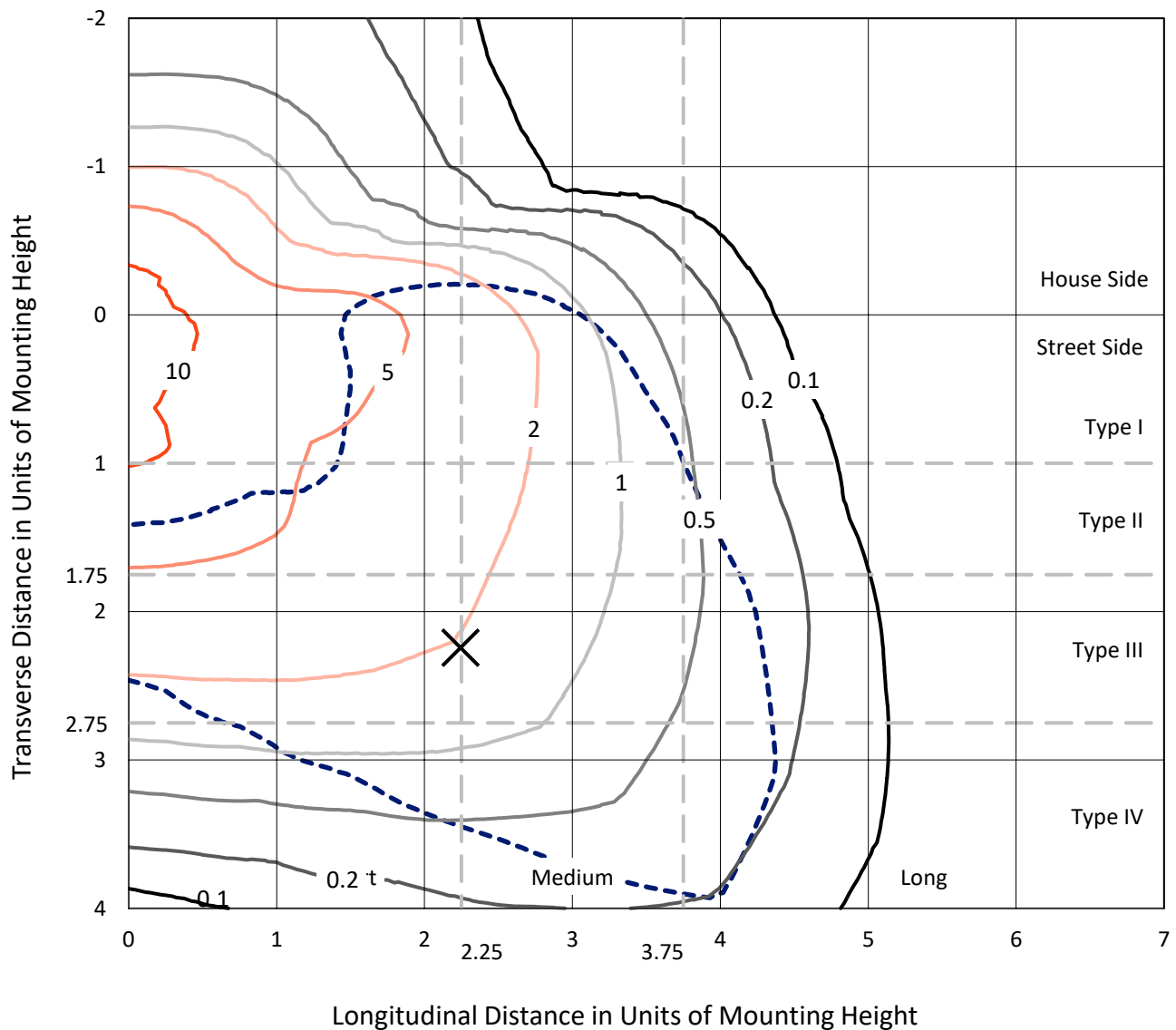


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Iso-Footcandle Lines of Horizontal Illumination

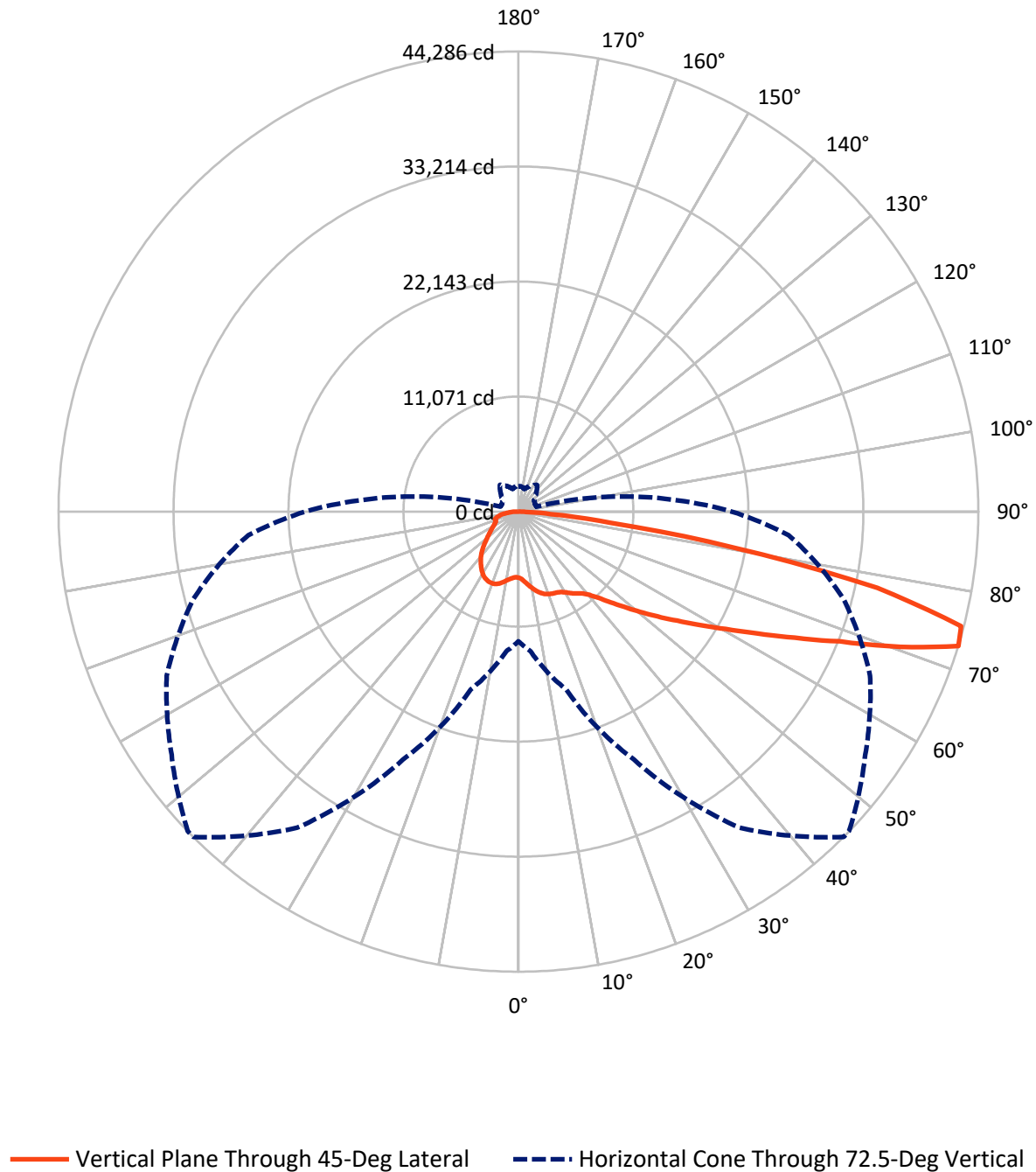
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	14271.0	0.0	14271.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	48856.7	0.0	48856.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	63127.7	0.0	63127.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.2	1.0
10°-20°	2161.1	3.4
20°-30°	3759.3	6.0
30°-40°	5389.2	8.5
40°-50°	7588.3	12.0
50°-60°	11623.1	18.4
60°-70°	16837.8	26.7
70°-80°	13446.0	21.3
80°-90°	1674.6	2.7
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°	63127.7	100.0
0°-180°	63127.7	100.0

Coefficient of Utilization



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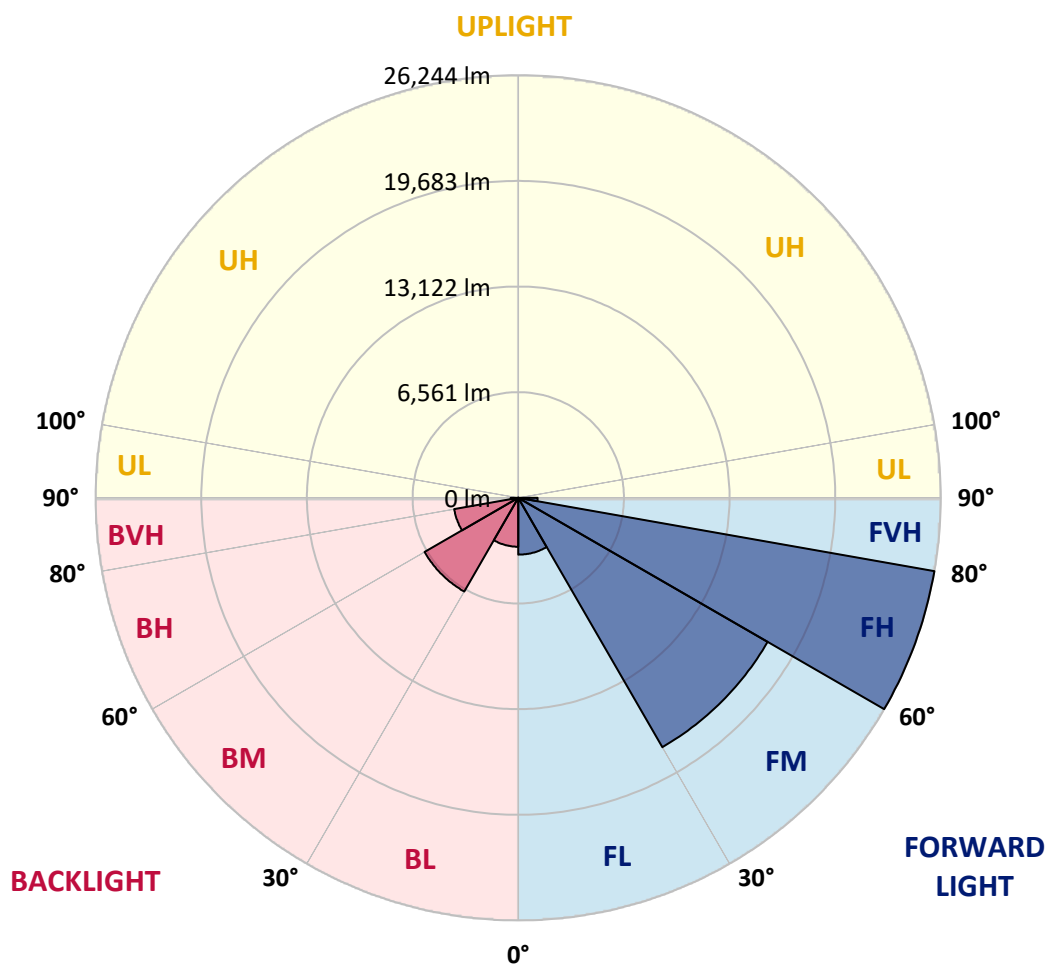
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3530.2	5.6			
FM	(30°-60°)	17881.1	28.3			
FH	(60°-80°)	26244.0	41.6			G5
FVH	(80°-90°)	1201.4	1.9			G5
BL	(0°-30°)	3038.4	4.8	B4/5000		
BM	(30°-60°)	6719.6	10.6	B4/8500		
BH	(60°-80°)	4039.7	6.4	B4/5000		G4/5000
BVH	(80°-90°)	473.2	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3
2.5°	6617.8	6661.0	6621.1	6584.5	6567.9	6524.6	6521.4	6494.7	6478.1	6431.6	6418.2
5°	7080.0	7136.6	7070.0	6996.9	6930.3	6823.9	6810.6	6734.1	6647.7	6547.9	6491.4
7.5°	7602.1	7652.0	7575.5	7465.8	7349.4	7173.2	7169.8	7030.2	6893.7	6724.2	6627.8
10°	8057.7	8124.3	8021.1	7871.5	7725.1	7525.7	7502.4	7342.7	7169.8	6950.3	6804.0
12.5°	8460.1	8506.7	8406.8	8224.0	8054.3	7854.9	7825.0	7648.7	7455.8	7206.4	7020.1
15°	8779.3	8839.2	8706.1	8510.0	8330.4	8134.2	8107.6	7948.0	7755.0	7492.3	7252.9
17.5°	8988.8	9038.8	8902.4	8682.9	8510.0	8347.0	8327.1	8194.1	8024.4	7758.4	7502.4
20°	9068.7	9121.9	8978.9	8756.1	8596.5	8470.1	8460.1	8363.7	8247.3	8004.5	7745.1
22.5°	9148.5	9198.3	9012.1	8779.3	8639.7	8559.9	8556.5	8493.4	8446.8	8247.3	7994.5
25°	9471.1	9484.3	9234.9	8899.0	8699.6	8629.7	8626.4	8623.0	8643.0	8486.7	8263.9
27.5°	9750.4	9747.0	9534.2	9218.3	8909.1	8762.7	8759.4	8792.7	8855.8	8726.1	8543.3
30°	10159.4	10122.9	9870.1	9540.9	9258.2	9032.1	9012.1	8982.2	9032.1	8929.0	8822.6
32.5°	11027.4	10911.0	10501.9	9916.7	9547.6	9374.6	9348.0	9161.8	9181.7	9118.6	9065.3
35°	12271.1	12118.2	11572.8	10628.3	9906.7	9660.6	9647.3	9411.2	9371.3	9314.8	9334.7
37.5°	13751.0	13561.5	12926.3	11659.3	10525.2	9993.1	9973.2	9760.4	9597.4	9537.5	9650.7
40°	15237.5	14998.1	14472.6	12916.3	11436.4	10548.5	10485.3	10162.8	9976.5	9876.8	10116.2
42.5°	16680.7	16481.3	16032.3	14326.3	12560.5	11360.0	11220.3	10668.2	10528.6	10435.4	10867.8
45°	17957.8	17778.2	17449.0	15832.8	13877.4	12464.0	12327.7	11426.5	11383.2	11383.2	12008.4
47.5°	18995.3	18955.4	18606.2	17369.1	15430.4	13721.1	13485.0	12480.6	12597.0	12776.6	13628.0
50°	20146.0	20036.2	19663.8	18882.2	17256.1	15161.0	14968.2	13774.3	14209.9	14702.1	15969.1
52.5°	21203.5	21263.3	20847.7	20458.6	19317.9	16767.3	16428.0	15300.7	16241.8	17056.5	18712.7
55°	22290.9	22294.3	22177.8	22124.6	21479.5	18543.1	18170.6	17136.4	18632.9	19643.8	21911.8
57.5°	23311.9	23318.4	23491.5	23960.3	23986.9	20591.5	20169.2	19391.1	21290.0	22320.8	25210.7
60°	24223.0	24269.5	24741.9	25839.2	26191.7	22939.4	22540.4	22054.8	24036.8	25074.4	28679.2
62.5°	24529.0	24698.6	25749.4	27309.1	28370.0	25819.2	25426.9	25137.5	26923.4	27887.8	31579.0
65°	24010.2	24399.3	26431.2	28522.9	30611.3	29241.2	28852.1	28536.2	29922.9	30830.9	33960.1
67.5°	22736.6	23238.7	26391.3	29796.5	33331.6	33358.2	32995.8	32254.2	33138.8	33487.9	34735.0
70°	19381.1	20132.6	24066.7	30272.1	36454.2	38988.3	38639.1	36730.3	36347.8	34658.5	32553.5
72.5°	12487.3	13498.2	17721.6	26358.0	37149.3	44285.8	44265.9	40770.8	37362.2	32383.8	26108.6
75°	4555.9	5174.5	8233.9	16544.4	31183.4	44016.5	44146.1	40079.0	34106.5	25014.5	16265.1
77.5°	1659.5	1815.7	2687.0	6358.4	19178.3	35317.0	35586.3	32041.3	24276.2	12553.8	6444.9
80°	871.2	957.8	1376.8	2467.5	8217.3	20974.0	21396.4	19041.8	11409.8	3781.1	1932.1
82.5°	482.2	522.1	771.5	1340.2	3701.3	8969.0	9221.6	7522.3	4013.9	1602.9	798.2
85°	259.4	276.0	362.4	731.6	1809.1	3109.3	3179.1	2248.0	1599.6	941.2	385.8
87.5°	76.5	93.1	119.7	232.8	708.4	698.3	714.9	445.6	631.8	475.5	126.4
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°	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3	6368.3
2.5°	6398.3	6388.3	6351.7	6335.1	6315.1	6311.8	6328.5	6331.7	6335.1	6338.4	6351.7
5°	6458.1	6424.9	6391.6	6371.7	6378.4	6381.6	6415.0	6438.2	6454.8	6468.2	6474.8
7.5°	6574.6	6547.9	6491.4	6488.0	6498.1	6528.0	6571.2	6624.4	6654.3	6677.7	6684.2
10°	6747.5	6697.6	6631.0	6641.1	6661.0	6704.2	6794.0	6837.3	6887.2	6930.3	6920.4
12.5°	6923.7	6880.5	6804.0	6810.6	6843.9	6920.4	7006.9	7060.1	7093.3	7126.6	7139.8
15°	7153.2	7076.7	6993.6	6993.6	7053.4	7136.6	7176.4	7219.7	7239.7	7276.3	7289.5
17.5°	7389.3	7289.5	7179.8	7173.2	7246.3	7286.2	7309.5	7316.1	7322.8	7362.7	7376.0
20°	7625.4	7515.6	7359.4	7346.1	7362.7	7356.0	7352.7	7346.1	7356.0	7405.9	7425.9
22.5°	7858.2	7731.8	7515.6	7455.8	7409.2	7346.1	7342.7	7339.4	7346.1	7396.0	7429.2
25°	8130.9	7977.9	7688.6	7509.0	7352.7	7266.2	7276.3	7279.6	7286.2	7326.1	7379.3
27.5°	8426.8	8257.3	7848.2	7492.3	7209.7	7149.9	7133.2	7143.2	7166.5	7229.6	7292.9
30°	8722.9	8523.3	7994.5	7425.9	7030.2	6947.0	6893.7	6917.1	6990.2	7053.4	7123.2
32.5°	8992.2	8792.7	8110.9	7279.6	6800.7	6671.0	6601.1	6631.0	6704.2	6727.5	6810.6
35°	9308.1	9082.0	8160.8	7046.8	6551.3	6351.7	6258.6	6215.4	6252.0	6228.7	6301.8
37.5°	9660.6	9424.5	8154.2	6740.8	6258.6	6029.2	5899.5	5736.5	5660.0	5580.2	5630.1
40°	10182.8	9843.5	8074.3	6371.7	5896.1	5686.6	5453.8	5177.8	5004.9	4848.6	4858.6
42.5°	10894.4	10425.5	7928.1	5966.0	5487.1	5290.8	4974.9	4652.4	4379.7	4120.3	4097.0
45°	11955.2	11187.1	7745.1	5533.7	5044.8	4851.9	4509.4	4146.9	3837.6	3505.1	3465.2
47.5°	13485.0	12211.2	7572.2	5041.5	4579.2	4403.0	4093.7	3757.9	3392.0	3069.5	3032.9
50°	15586.7	13681.2	7412.6	4562.6	4120.3	3987.2	3741.2	3398.7	3029.6	2770.2	2753.6
52.5°	18260.4	15679.8	7346.1	4100.3	3691.3	3641.4	3445.2	3125.9	2776.8	2557.3	2540.7
55°	21329.8	18070.9	7346.1	3658.0	3315.6	3332.2	3195.8	2899.8	2597.2	2401.1	2381.1
57.5°	24462.4	20491.8	7213.0	3249.0	2996.3	3066.1	2979.7	2720.2	2447.6	2244.8	2211.4
60°	27349.0	22520.4	6674.3	2876.6	2713.6	2823.4	2766.8	2544.0	2211.4	2041.9	2015.3
62.5°	29567.2	23664.4	5636.8	2580.6	2480.8	2607.2	2577.3	2311.3	2168.3	2098.4	2075.1
65°	30677.8	23478.1	4309.8	2317.8	2284.6	2480.8	2417.7	2407.6	2294.6	2214.8	2188.2
67.5°	29996.1	21875.2	3125.9	2125.0	2171.6	2364.5	2607.2	2647.1	2437.6	2281.3	2254.7
70°	27006.5	18975.4	2327.9	1942.1	2028.6	2367.8	2973.0	2770.2	2391.0	2208.2	2178.2
72.5°	20545.0	14150.0	1805.7	1749.3	1842.3	2384.4	3136.0	2713.6	2258.0	2440.9	2420.9
75°	11749.1	7768.4	1450.0	1513.1	1609.6	2228.0	3052.9	2567.3	2155.0	2241.4	2241.4
77.5°	4479.5	2986.3	1197.2	1280.3	1293.7	1945.4	2919.8	2557.3	2051.8	2001.9	1825.7
80°	1553.0	1167.3	991.0	1017.6	1001.0	1729.3	2800.1	2224.8	1679.4	1503.2	1453.2
82.5°	635.2	582.0	784.8	751.5	711.7	1343.5	2261.4	1819.1	1373.4	1213.8	1200.5
85°	276.0	369.1	518.8	455.6	412.4	931.1	1812.4	1539.8	1160.6	1001.0	997.6
87.5°	56.6	139.7	219.5	206.2	212.8	621.9	1287.0	1094.1	821.4	615.2	482.2
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)