

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: P971336

Luminaire Tested: **NAV-SB6D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971336
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-SB6D-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51643.6 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

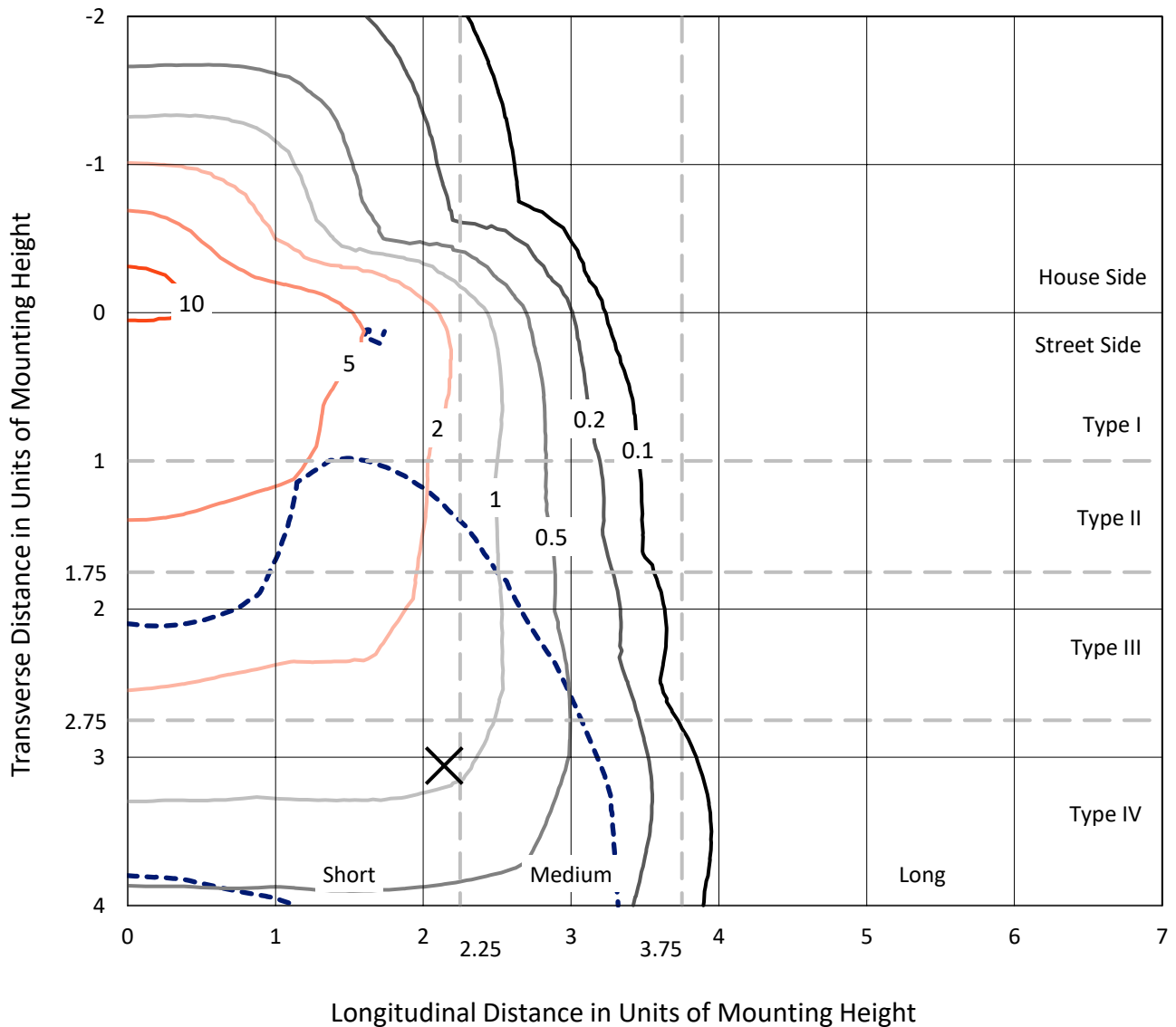
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

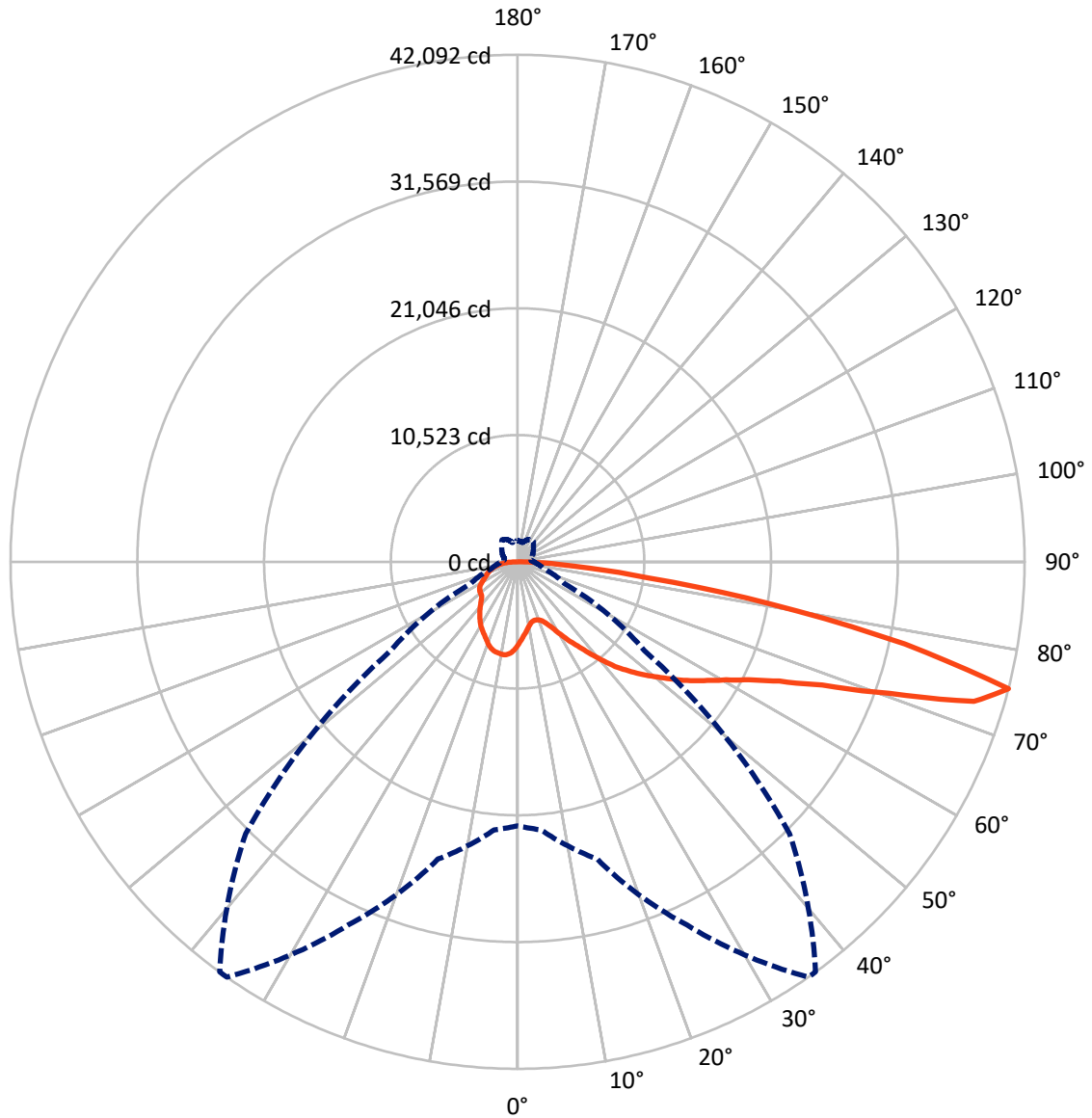
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12289.9	0.0	12289.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	39353.7	0.0	39353.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	51643.6	0.0	51643.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.6	1.3
10°-20°	1879.4	3.6
20°-30°	3156.0	6.1
30°-40°	4904.9	9.5
40°-50°	7280.2	14.1
50°-60°	10050.8	19.5
60°-70°	12193.9	23.6
70°-80°	10077.3	19.5
80°-90°	1449.4	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°	51643.6	100.0
0°-180°	51643.6	100.0

Coefficient of Utilization

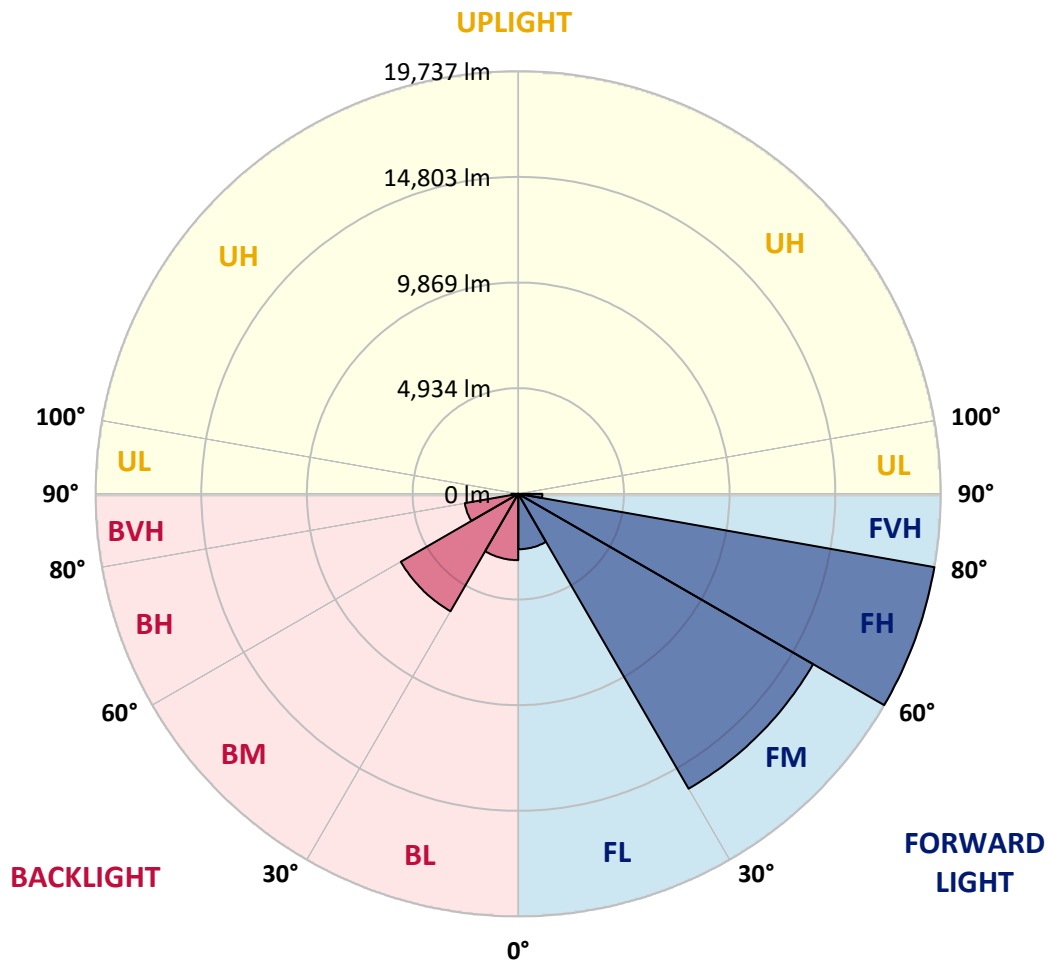


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2589.8	5.0			
FM (30°-60°)	15903.4	30.8			
FH (60°-80°)	19737.4	38.2			G5
FVH (80°-90°)	1123.1	2.2			G5
BL (0°-30°)	3097.2	6.0	B4/5000		
BM (30°-60°)	6332.5	12.3	B4/8500		
BH (60°-80°)	2533.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	326.4	0.6			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°	36°	45°	55°	65°	75°	85°
0°	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8
2.5°	6345.9	6384.9	6401.6	6393.3	6435.2	6429.6	6488.2	6560.8	6661.3	6759.1	6901.4
5°	5857.3	5899.2	5935.5	5968.9	6049.9	6075.0	6167.1	6306.7	6491.0	6678.1	6912.6
7.5°	5402.2	5438.4	5494.3	5555.7	5692.5	5717.7	5871.2	6089.0	6345.9	6619.4	6943.2
10°	5030.9	5067.2	5125.8	5195.6	5365.9	5396.6	5592.0	5882.4	6217.4	6563.6	6976.8
12.5°	4871.7	4882.9	4916.4	4986.2	5134.2	5153.7	5368.6	5700.9	6091.8	6521.7	7027.0
15°	4863.3	4885.7	4888.5	4924.8	5047.6	5056.0	5254.3	5583.7	6013.6	6513.4	7102.4
17.5°	4947.2	4963.9	4938.8	4961.1	5064.4	5078.4	5234.7	5527.8	5988.5	6549.6	7230.9
20°	5170.5	5184.4	5109.0	5078.4	5153.7	5164.9	5318.4	5564.1	6013.6	6625.0	7406.8
22.5°	5645.1	5653.5	5469.2	5343.5	5349.2	5354.7	5488.8	5712.1	6111.4	6761.8	7630.1
25°	6384.9	6379.3	6086.1	5843.3	5703.7	5673.0	5762.3	5952.2	6276.1	6943.2	7917.6
27.5°	7250.3	7208.5	6915.4	6552.4	6248.1	6203.4	6183.9	6264.9	6510.6	7183.4	8269.4
30°	8227.5	8188.4	7872.9	7398.3	6976.8	6904.2	6719.9	6678.1	6859.5	7510.0	8758.0
32.5°	9299.6	9274.5	8897.5	8322.5	7758.5	7674.7	7364.8	7253.2	7395.6	8004.2	9439.2
35°	10198.5	10176.2	9863.6	9271.6	8582.1	8478.8	8163.3	8037.6	8110.3	8637.9	10329.7
37.5°	11011.0	10999.8	10731.7	10265.6	9553.6	9428.1	9073.4	9031.6	9017.6	9472.6	11410.2
40°	11764.7	11736.9	11457.7	11212.0	10684.3	10569.9	10257.2	10220.9	10114.8	10500.1	12633.0
42.5°	12599.5	12526.9	12122.2	12007.7	11865.3	11770.4	11583.3	11588.9	11354.3	11658.7	13928.4
45°	13280.7	13238.9	12822.9	12755.8	12909.5	12870.3	13032.3	13074.2	12619.1	12873.1	15274.1
47.5°	14012.2	13973.1	13621.3	13573.9	13989.8	14001.0	14573.3	14587.3	13853.1	14135.1	16622.5
50°	14914.0	14858.1	14509.2	14567.8	15034.0	15075.9	16122.8	16027.9	14989.3	15416.5	17959.8
52.5°	15508.7	15542.1	15466.7	15561.7	16198.2	16237.2	17647.1	17404.3	16114.4	16681.2	19271.9
55°	15947.0	16013.9	16248.4	16466.2	17426.6	17465.7	19085.0	18713.6	17046.9	17853.8	20505.9
57.5°	16510.9	16416.0	16854.3	17278.6	18593.6	18696.9	20483.6	19975.5	17873.3	18864.4	21351.9
60°	17320.6	17253.5	17594.1	18222.2	19900.2	20064.9	21963.3	21111.8	18479.1	19665.6	21516.6
62.5°	18962.1	18794.6	18847.6	19403.2	21547.3	21765.1	23632.8	22102.9	18780.7	19978.4	20634.4
65°	21416.1	21128.5	20860.6	21245.8	23867.3	24082.3	25517.3	22881.8	18668.9	19372.5	18292.0
67.5°	24506.7	24221.9	23892.4	24255.4	27284.6	27454.8	27842.9	23320.2	17789.5	17038.6	14151.8
70°	27055.6	26949.5	27343.2	28836.8	32742.6	32748.1	30824.6	22957.2	15380.2	12080.2	8188.4
72.5°	26717.9	26653.6	28727.9	33345.6	39621.7	39473.7	33647.2	20210.0	10360.5	5449.6	3068.2
75°	21918.7	22334.6	25548.0	33264.6	42092.4	42072.9	31919.0	12848.0	4285.4	2258.6	1585.8
77.5°	11753.6	12412.4	16586.2	24559.7	32859.9	33354.0	22440.7	4494.8	1839.8	1446.2	1097.2
80°	3833.2	4408.3	6611.0	12504.6	21351.9	21259.7	9617.9	1764.4	1259.1	1024.6	759.4
82.5°	1627.6	1694.6	2953.7	5904.7	10958.0	10787.6	3062.6	1013.4	885.0	700.8	469.0
85°	636.5	712.0	1303.8	2730.4	4746.2	4642.8	1105.6	502.6	566.7	457.9	279.2
87.5°	209.4	254.1	466.3	935.3	1476.9	1423.8	270.8	173.1	245.7	209.4	100.6
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°	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8	6881.8
2.5°	6940.5	6985.2	7038.2	7116.4	7183.4	7239.2	7297.8	7334.2	7348.1	7389.9	7387.2
5°	6990.7	7088.5	7219.7	7348.1	7473.7	7549.1	7616.2	7649.6	7680.3	7702.7	7708.2
7.5°	7074.4	7200.1	7406.8	7574.2	7680.3	7741.7	7786.4	7775.2	7786.4	7791.9	7800.4
10°	7147.1	7323.0	7568.6	7727.8	7808.8	7811.5	7800.4	7761.3	7741.7	7744.5	7750.1
12.5°	7233.6	7429.1	7694.3	7828.3	7850.6	7789.2	7741.7	7674.7	7649.6	7638.4	7632.9
15°	7350.9	7574.2	7831.1	7881.3	7825.5	7747.4	7666.4	7557.5	7501.7	7457.0	7470.9
17.5°	7493.3	7739.0	7937.2	7900.9	7780.9	7652.4	7521.1	7356.4	7242.0	7194.6	7197.3
20°	7691.5	7912.1	8018.2	7859.0	7677.6	7482.1	7258.7	7057.7	6951.7	6904.2	6898.7
22.5°	7931.6	8143.7	8096.3	7786.4	7529.5	7216.9	6937.7	6789.7	6736.7	6703.2	6708.7
25°	8219.2	8400.6	8152.1	7680.3	7286.7	6865.1	6650.1	6602.6	6577.5	6552.4	6552.4
27.5°	8593.3	8691.0	8194.1	7524.0	6907.0	6491.0	6412.8	6421.2	6412.8	6371.0	6379.3
30°	9087.4	9067.9	8233.1	7269.9	6471.4	6153.2	6158.8	6195.1	6200.6	6172.8	6186.7
32.5°	9737.9	9539.7	8252.7	6940.5	6055.5	5857.3	5862.8	5902.0	5929.8	5882.4	5904.7
35°	10525.2	10089.7	8221.9	6527.3	5734.5	5575.3	5533.4	5544.5	5552.9	5508.2	5539.0
37.5°	11443.7	10706.6	8085.1	6069.4	5469.2	5298.9	5209.6	5134.2	5089.5	5047.6	5075.6
40°	12451.6	11379.4	7833.9	5622.7	5173.3	5005.8	4871.7	4729.3	4578.6	4522.8	4547.9
42.5°	13506.8	12071.8	7529.5	5195.6	4832.7	4695.8	4553.5	4346.9	4120.7	4006.3	4020.3
45°	14601.2	12781.0	7230.9	4774.0	4483.7	4425.0	4260.3	4011.8	3766.2	3621.0	3609.8
47.5°	15673.4	13451.1	6792.5	4349.7	4157.0	4221.3	4092.8	3863.9	3590.3	3361.4	3336.3
50°	16698.0	14079.2	6075.0	3919.7	3891.8	4159.9	4037.0	3707.5	3394.9	3101.8	3076.6
52.5°	17714.2	14587.3	5156.5	3528.9	3749.4	4143.0	3964.4	3601.4	3219.0	2911.9	2878.4
55°	18576.8	14849.8	4271.5	3193.9	3542.8	4000.7	3877.9	3475.9	2970.6	2643.9	2615.9
57.5°	19068.2	14637.5	3534.4	2864.5	3258.1	3766.2	3729.9	3207.8	2674.5	2423.3	2389.8
60°	18856.0	13777.6	2931.4	2576.8	2987.3	3512.2	3473.0	2942.6	2448.4	2211.1	2177.6
62.5°	17686.3	12138.9	2454.1	2325.6	2741.6	3252.5	3216.1	2738.8	2275.3	2046.4	2010.1
65°	15329.9	9874.7	2082.7	2116.2	2493.1	2939.8	2992.8	2568.4	2138.6	1915.2	1878.9
67.5°	11692.2	7152.7	1792.3	1934.7	2250.2	2632.7	2786.3	2445.6	2024.1	1811.9	1778.4
70°	6664.1	4062.1	1546.6	1758.9	2035.2	2348.0	2627.1	2348.0	1901.3	1725.4	1703.0
72.5°	2526.6	1865.0	1337.3	1583.0	1828.6	2107.8	2451.2	2194.4	1758.9	1627.6	1605.3
75°	1348.5	1136.3	1125.1	1376.4	1591.3	1873.3	2230.7	2043.6	1652.8	1719.7	1775.6
77.5°	918.5	804.0	940.8	1178.1	1331.7	1613.7	1996.2	1814.7	1432.2	1426.6	1315.0
80°	636.5	569.5	765.0	949.3	1030.2	1356.8	1742.1	1557.8	1167.0	1088.9	1041.4
82.5°	382.5	371.4	572.4	709.1	728.7	1046.9	1443.4	1306.6	954.8	832.0	837.5
85°	209.4	220.6	365.7	415.9	424.4	731.4	1130.7	1010.6	734.2	616.9	622.6
87.5°	58.6	75.3	134.0	164.7	203.8	379.7	672.8	600.2	368.5	256.9	256.9
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)