

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: P885311

Luminaire Tested: **NAV-SB6C-740-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48438 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

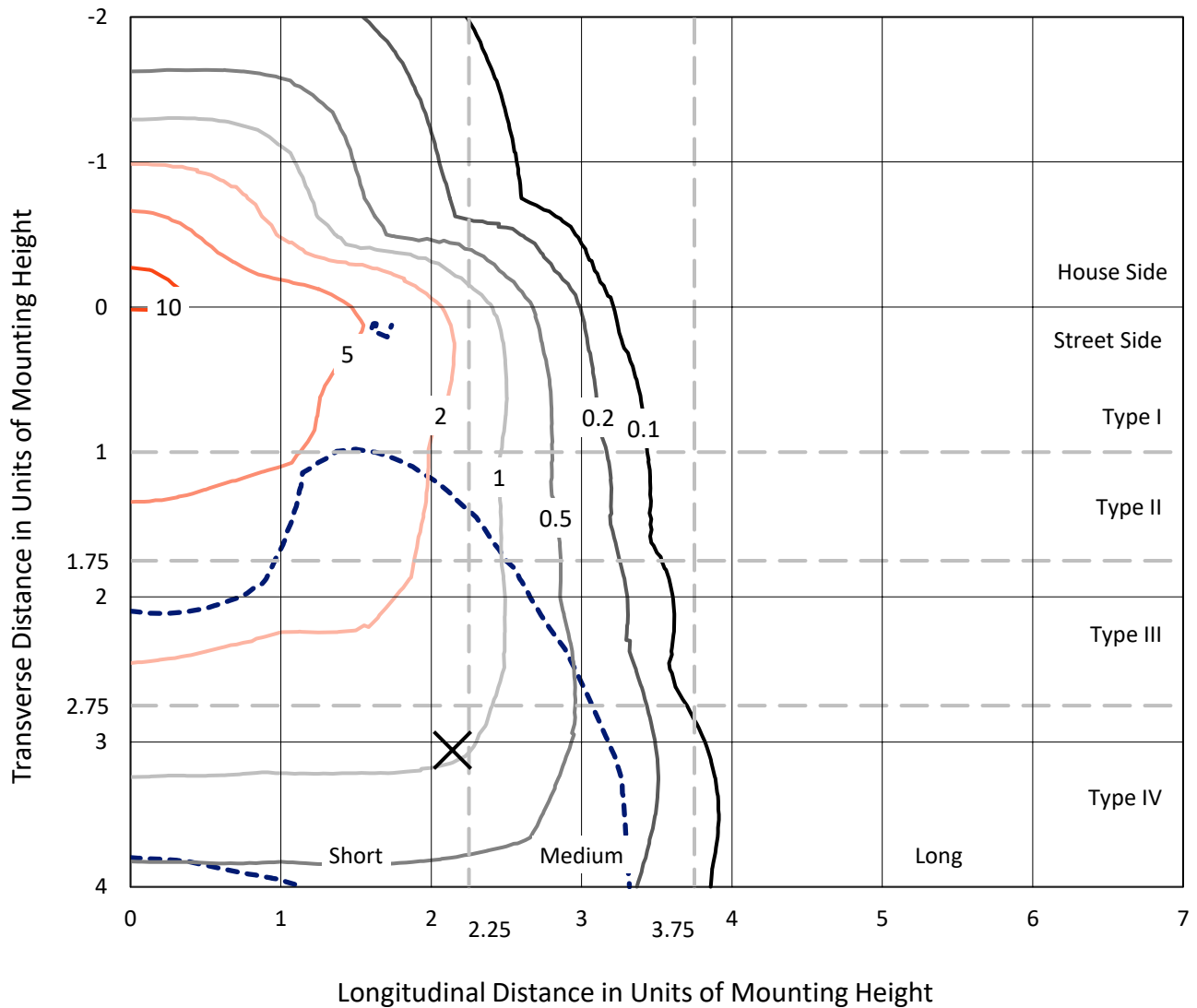
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

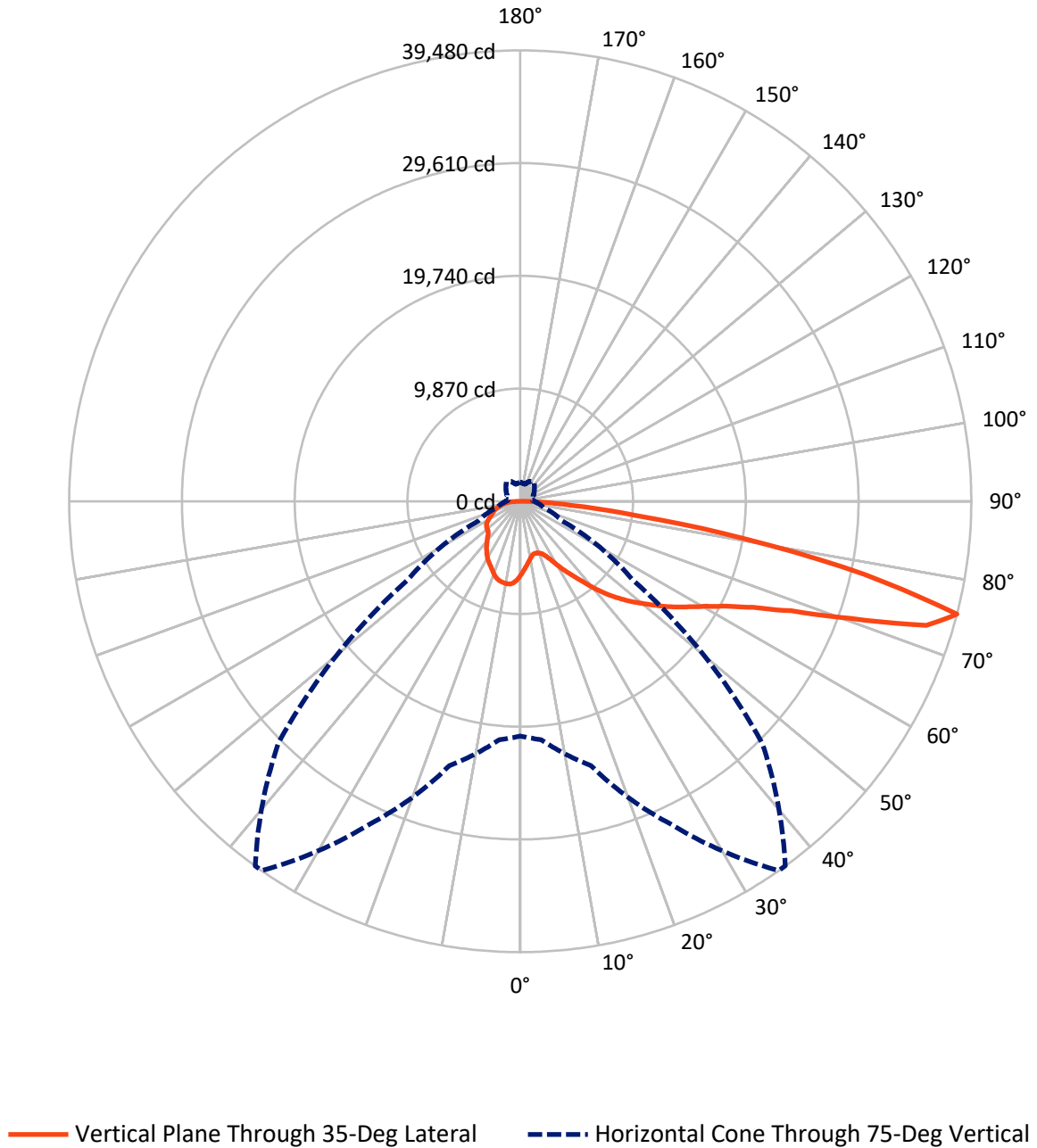
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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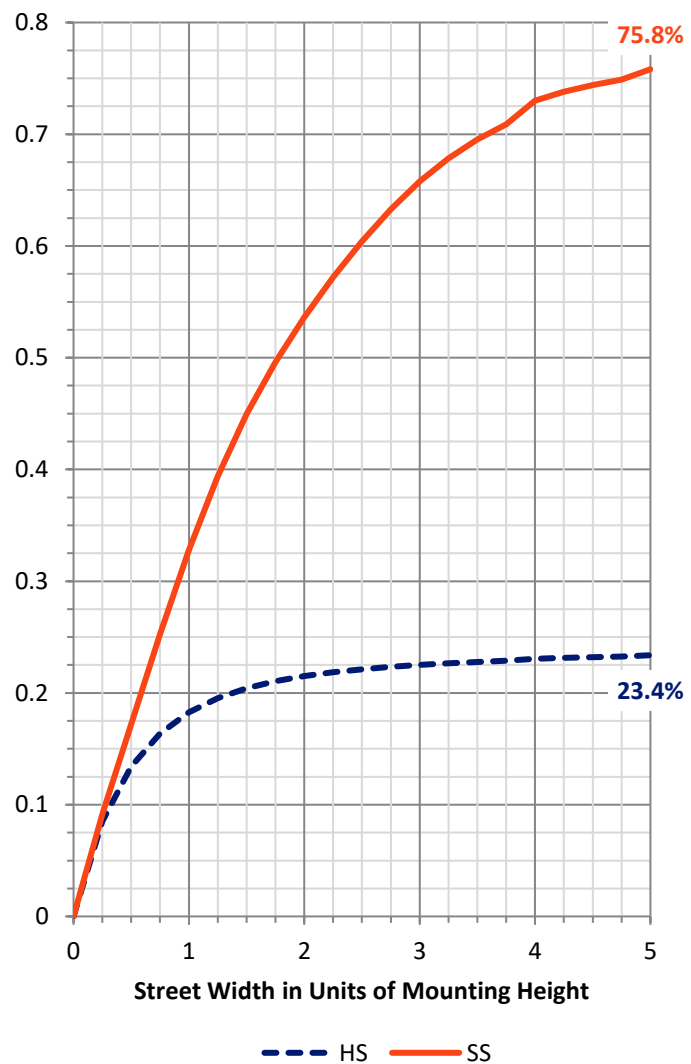
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11527.0	0.0	11527.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36911.0	0.0	36911.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	48438.0	0.0	48438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.1	1.3
10°-20°	1762.8	3.6
20°-30°	2960.1	6.1
30°-40°	4600.5	9.5
40°-50°	6828.3	14.1
50°-60°	9426.9	19.5
60°-70°	11437.0	23.6
70°-80°	9451.8	19.5
80°-90°	1359.5	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°	48438.0	100.0
0°-180°	48438.0	100.0

Coefficient of Utilization



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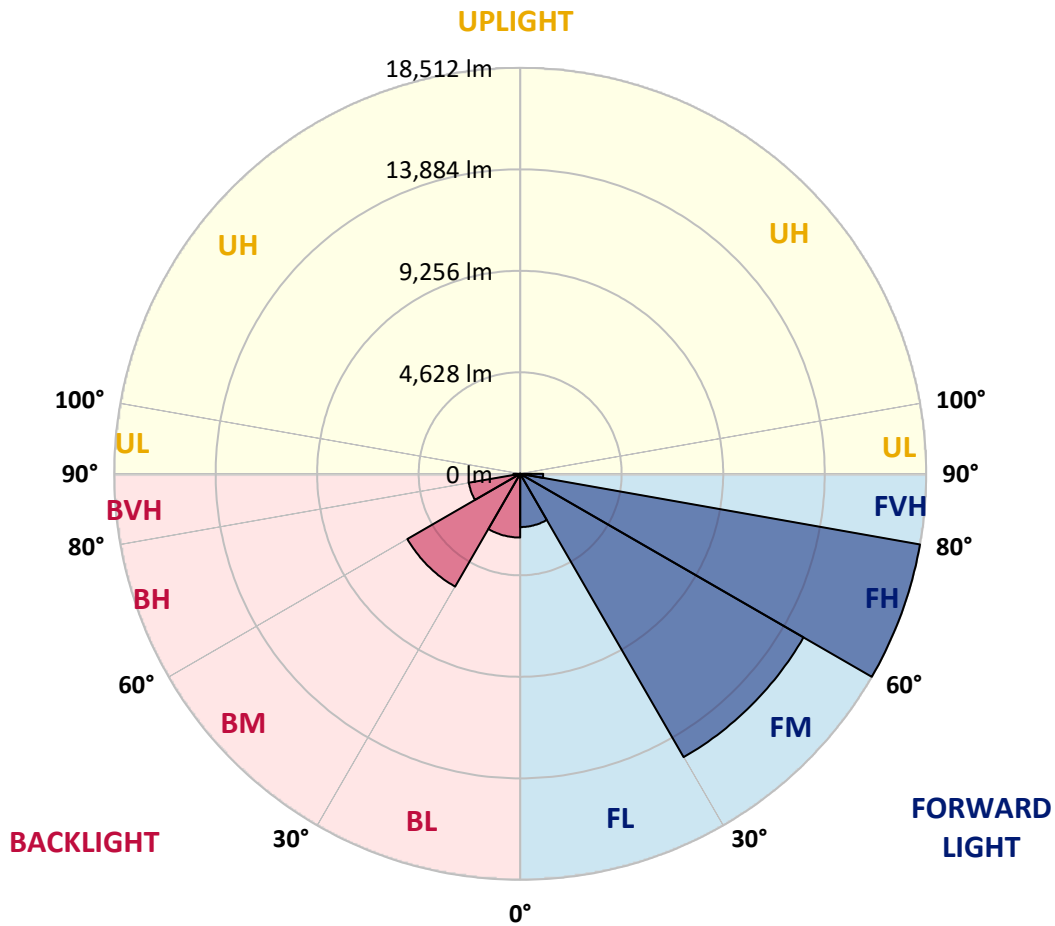
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.1	5.0			
FM (30°-60°)	14916.3	30.8			
FH (60°-80°)	18512.3	38.2			G5
FVH (80°-90°)	1053.3	2.2			G5
BL (0°-30°)	2905.0	6.0	B4/5000		
BM (30°-60°)	5939.4	12.3	B4/8500		
BH (60°-80°)	2376.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	306.1	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°	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7
2.5°	5951.9	5988.6	6004.3	5996.4	6035.7	6030.5	6085.5	6153.6	6247.8	6339.5	6473.0
5°	5493.7	5533.0	5567.0	5598.4	5674.4	5697.9	5784.3	5915.3	6088.1	6263.5	6483.5
7.5°	5066.9	5100.9	5153.3	5210.9	5339.2	5362.8	5506.8	5711.0	5951.9	6208.5	6512.3
10°	4718.6	4752.6	4807.6	4873.1	5032.8	5061.6	5244.9	5517.3	5831.5	6156.2	6543.7
12.5°	4569.3	4579.8	4611.2	4676.7	4815.5	4833.8	5035.4	5347.1	5713.6	6116.9	6590.9
15°	4561.5	4582.4	4585.1	4619.1	4734.3	4742.2	4928.1	5237.1	5640.3	6109.0	6661.6
17.5°	4640.0	4655.8	4632.2	4653.1	4750.0	4763.1	4909.8	5184.7	5616.8	6143.1	6782.0
20°	4849.5	4862.6	4791.9	4763.1	4833.8	4844.3	4988.3	5218.7	5640.3	6213.8	6947.0
22.5°	5294.7	5302.5	5129.7	5011.9	5017.1	5022.4	5148.0	5357.5	5732.0	6342.1	7156.5
25°	5988.6	5983.4	5708.4	5480.6	5349.7	5320.9	5404.7	5582.7	5886.5	6512.3	7426.2
27.5°	6800.3	6761.1	6486.1	6145.7	5860.3	5818.4	5800.1	5876.0	6106.4	6737.5	7756.1
30°	7716.8	7680.2	7384.3	6939.1	6543.7	6475.6	6302.8	6263.5	6433.7	7043.9	8214.3
32.5°	8722.3	8698.8	8345.3	7805.9	7276.9	7198.4	6907.7	6803.0	6936.5	7507.3	8853.3
35°	9565.5	9544.6	9251.3	8696.2	8049.4	7952.5	7656.6	7538.8	7606.8	8101.8	9688.6
37.5°	10327.5	10317.0	10065.7	9628.4	8960.6	8842.8	8510.2	8471.0	8457.9	8884.7	10702.0
40°	11034.5	11008.3	10746.5	10516.0	10021.1	9913.8	9620.5	9586.5	9487.0	9848.3	11848.9
42.5°	11817.5	11749.4	11369.7	11262.3	11128.8	11039.7	10864.3	10869.5	10649.6	10935.0	13063.9
45°	12456.4	12417.1	12026.9	11964.1	12108.1	12071.5	12223.3	12262.6	11835.8	12074.1	14326.0
47.5°	13142.4	13105.8	12775.8	12731.3	13121.5	13132.0	13668.8	13681.9	12993.2	13257.6	15590.8
50°	13988.2	13935.8	13608.5	13663.5	14100.8	14140.1	15122.0	15033.0	14058.9	14459.6	16845.0
52.5°	14546.0	14577.4	14506.7	14595.7	15192.7	15229.4	16551.8	16324.0	15114.2	15645.8	18075.8
55°	14957.1	15019.9	15239.9	15444.1	16344.9	16381.6	17900.3	17552.0	15988.8	16745.5	19233.1
57.5°	15486.0	15397.0	15808.1	16206.1	17439.4	17536.3	19212.2	18735.6	16763.9	17693.4	20026.6
60°	16245.4	16182.6	16502.0	17091.2	18664.9	18819.4	20600.0	19801.4	17332.1	18445.0	20181.1
62.5°	17785.1	17628.0	17677.7	18198.8	20209.9	20414.1	22165.9	20730.9	17614.9	18738.2	19353.6
65°	20086.8	19817.1	19565.7	19927.1	22385.9	22587.5	23933.4	21461.5	17510.2	18170.0	17156.6
67.5°	22985.5	22718.4	22409.4	22749.8	25591.0	25750.7	26114.7	21872.6	16685.3	15980.9	13273.4
70°	25376.2	25276.7	25645.9	27046.9	30710.2	30715.4	28911.3	21532.2	14425.5	11330.4	7680.2
72.5°	25059.4	24999.2	26944.7	31275.8	37162.3	37023.5	31558.6	18955.6	9717.4	5111.4	2877.8
75°	20558.1	20948.3	23962.2	31199.9	39479.7	39461.3	29937.7	12050.5	4019.5	2118.4	1487.3
77.5°	11024.0	11642.0	15556.7	23035.3	30820.2	31283.6	21047.8	4215.8	1725.6	1356.4	1029.1
80°	3595.2	4134.7	6200.7	11728.4	20026.6	19940.2	9020.9	1654.9	1181.0	961.0	712.2
82.5°	1526.6	1589.5	2770.4	5538.2	10277.8	10118.0	2872.5	950.5	830.1	657.3	439.9
85°	597.0	667.7	1222.9	2560.9	4451.5	4354.6	1036.9	471.3	531.6	429.4	261.9
87.5°	196.4	238.3	437.3	877.2	1385.2	1335.5	254.0	162.3	230.4	196.4	94.3
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°	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7	6454.7
2.5°	6509.7	6551.6	6601.3	6674.6	6737.5	6789.9	6844.9	6878.9	6892.0	6931.3	6928.6
5°	6556.8	6648.5	6771.5	6892.0	7009.8	7080.5	7143.4	7174.8	7203.6	7224.5	7229.8
7.5°	6635.4	6753.2	6947.0	7104.1	7203.6	7261.2	7303.1	7292.6	7303.1	7308.3	7316.2
10°	6703.5	6868.4	7098.9	7248.1	7324.0	7326.7	7316.2	7279.5	7261.2	7263.8	7269.1
12.5°	6784.6	6967.9	7216.7	7342.4	7363.3	7305.7	7261.2	7198.4	7174.8	7164.3	7159.1
15°	6894.6	7104.1	7345.0	7392.1	7339.8	7266.4	7190.5	7088.4	7036.0	6994.1	7007.2
17.5°	7028.2	7258.6	7444.5	7410.5	7297.9	7177.4	7054.3	6899.8	6792.5	6748.0	6750.6
20°	7214.1	7420.9	7520.4	7371.2	7201.0	7017.7	6808.2	6619.7	6520.2	6475.6	6470.4
22.5°	7439.3	7638.3	7593.8	7303.1	7062.2	6768.9	6507.1	6368.3	6318.5	6287.1	6292.3
25°	7709.0	7879.2	7646.1	7203.6	6834.4	6439.0	6237.4	6192.8	6169.3	6145.7	6145.7
27.5°	8059.9	8151.5	7685.4	7057.0	6478.3	6088.1	6014.8	6022.6	6014.8	5975.5	5983.4
30°	8523.3	8505.0	7722.1	6818.7	6069.8	5771.3	5776.5	5810.5	5815.8	5789.6	5802.7
32.5°	9133.5	8947.5	7740.4	6509.7	5679.6	5493.7	5498.9	5535.6	5561.8	5517.3	5538.2
35°	9871.9	9463.4	7711.6	6122.1	5378.5	5229.2	5189.9	5200.4	5208.3	5166.4	5195.2
37.5°	10733.4	10042.1	7583.3	5692.7	5129.7	4970.0	4886.2	4815.5	4773.6	4734.3	4760.5
40°	11678.7	10673.2	7347.6	5273.7	4852.1	4695.0	4569.3	4435.8	4294.4	4242.0	4265.6
42.5°	12668.5	11322.5	7062.2	4873.1	4532.7	4404.4	4270.8	4077.1	3865.0	3757.6	3770.7
45°	13694.9	11987.7	6782.0	4477.7	4205.4	4150.4	3995.9	3762.8	3532.4	3396.2	3385.8
47.5°	14700.5	12616.1	6370.9	4079.7	3899.0	3959.2	3838.8	3624.1	3367.4	3152.7	3129.2
50°	15661.5	13205.3	5697.9	3676.4	3650.2	3901.6	3786.4	3477.4	3184.1	2909.2	2885.6
52.5°	16614.6	13681.9	4836.4	3309.8	3516.7	3885.9	3718.3	3377.9	3019.2	2731.1	2699.7
55°	17423.7	13928.0	4006.4	2995.6	3322.9	3752.4	3637.1	3260.1	2786.1	2479.8	2453.6
57.5°	17884.6	13729.0	3315.1	2686.6	3055.8	3532.4	3498.4	3008.7	2508.6	2272.9	2241.5
60°	17685.6	12922.5	2749.5	2416.9	2801.8	3294.1	3257.5	2759.9	2296.5	2073.9	2042.5
62.5°	16588.4	11385.4	2301.7	2181.2	2571.4	3050.6	3016.6	2568.8	2134.1	1919.4	1885.3
65°	14378.4	9261.8	1953.4	1984.9	2338.4	2757.3	2807.1	2409.1	2005.8	1796.3	1762.3
67.5°	10966.4	6708.7	1681.1	1814.6	2110.5	2469.3	2613.3	2293.8	1898.4	1699.4	1668.0
70°	6250.4	3810.0	1450.7	1649.7	1908.9	2202.2	2464.0	2202.2	1783.2	1618.3	1597.3
72.5°	2369.8	1749.2	1254.3	1484.7	1715.1	1977.0	2299.1	2058.2	1649.7	1526.6	1505.7
75°	1264.8	1065.7	1055.3	1290.9	1492.6	1757.0	2092.2	1916.8	1550.2	1613.0	1665.4
77.5°	861.5	754.1	882.4	1105.0	1249.0	1513.5	1872.3	1702.0	1343.3	1338.1	1233.3
80°	597.0	534.2	717.5	890.3	966.2	1272.6	1634.0	1461.1	1094.5	1021.2	976.7
82.5°	358.7	348.3	536.8	665.1	683.4	982.0	1353.8	1225.5	895.5	780.3	785.6
85°	196.4	206.9	343.0	390.2	398.0	686.1	1060.5	947.9	688.7	578.7	583.9
87.5°	55.0	70.7	125.7	154.5	191.2	356.1	631.1	563.0	345.6	240.9	240.9
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)