

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: P885531

Luminaire Tested: **NAV-SB6D-835-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885531
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-SB6D-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA 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: 51508 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

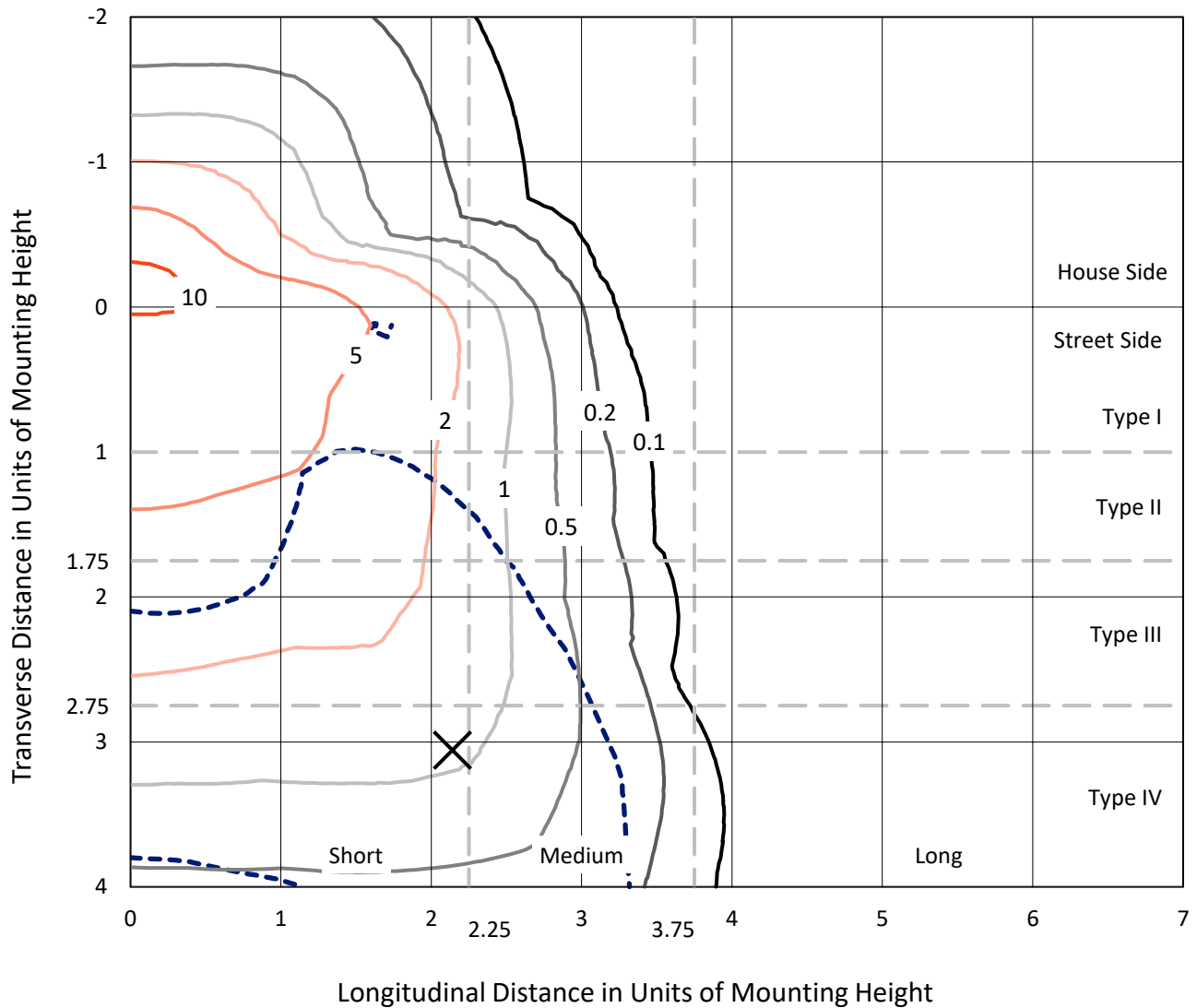
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

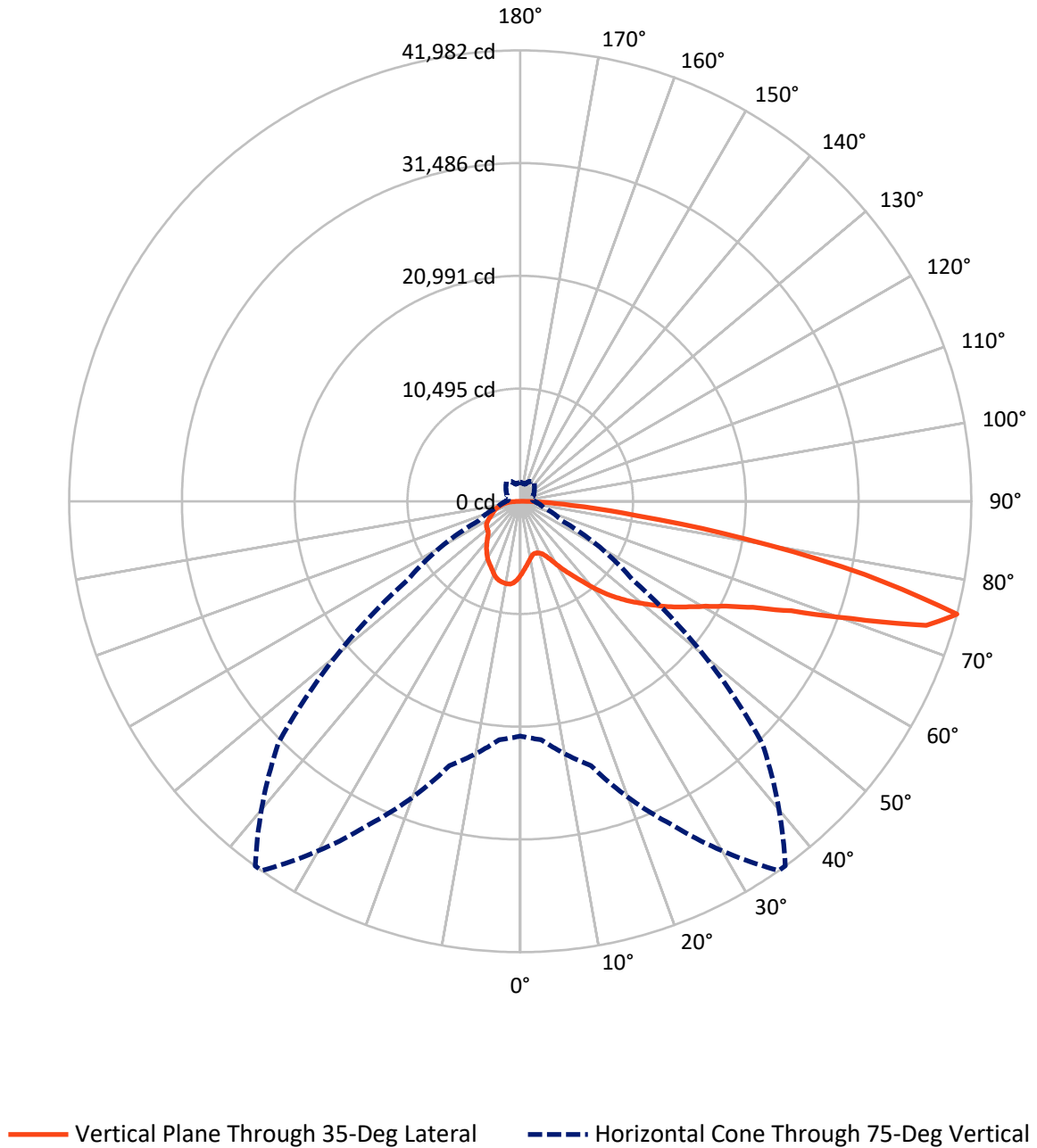
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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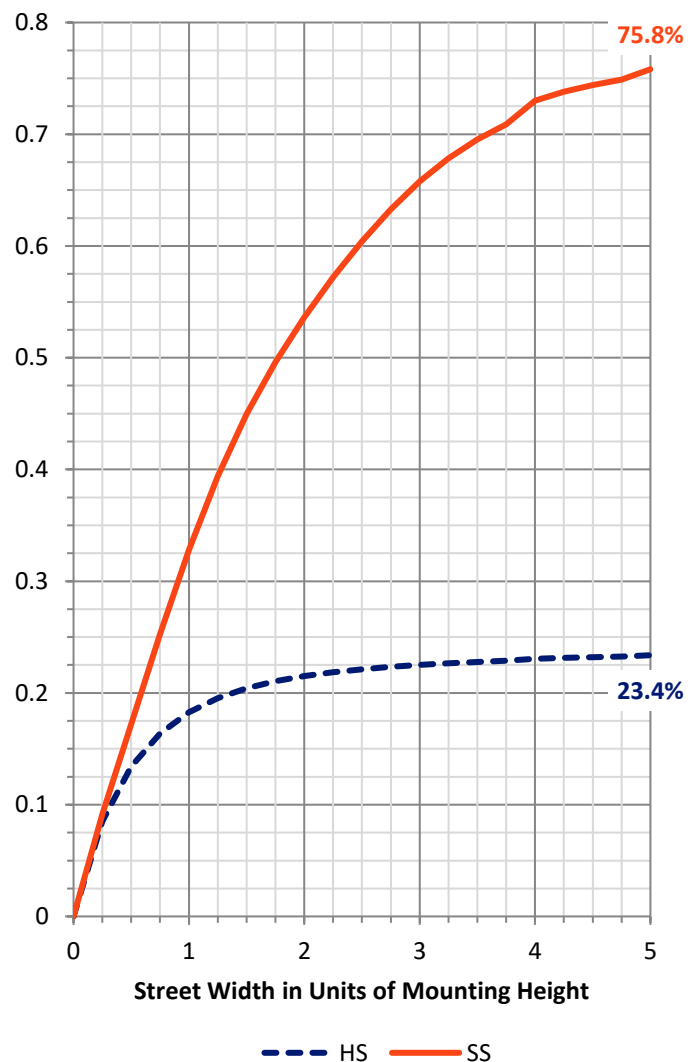
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12257.6	0.0	12257.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	39250.4	0.0	39250.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	51508.0	0.0	51508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.9	1.3
10°-20°	1874.5	3.6
20°-30°	3147.8	6.1
30°-40°	4892.0	9.5
40°-50°	7261.1	14.1
50°-60°	10024.4	19.5
60°-70°	12161.9	23.6
70°-80°	10050.9	19.5
80°-90°	1445.6	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°	51508.0	100.0
0°-180°	51508.0	100.0

Coefficient of Utilization



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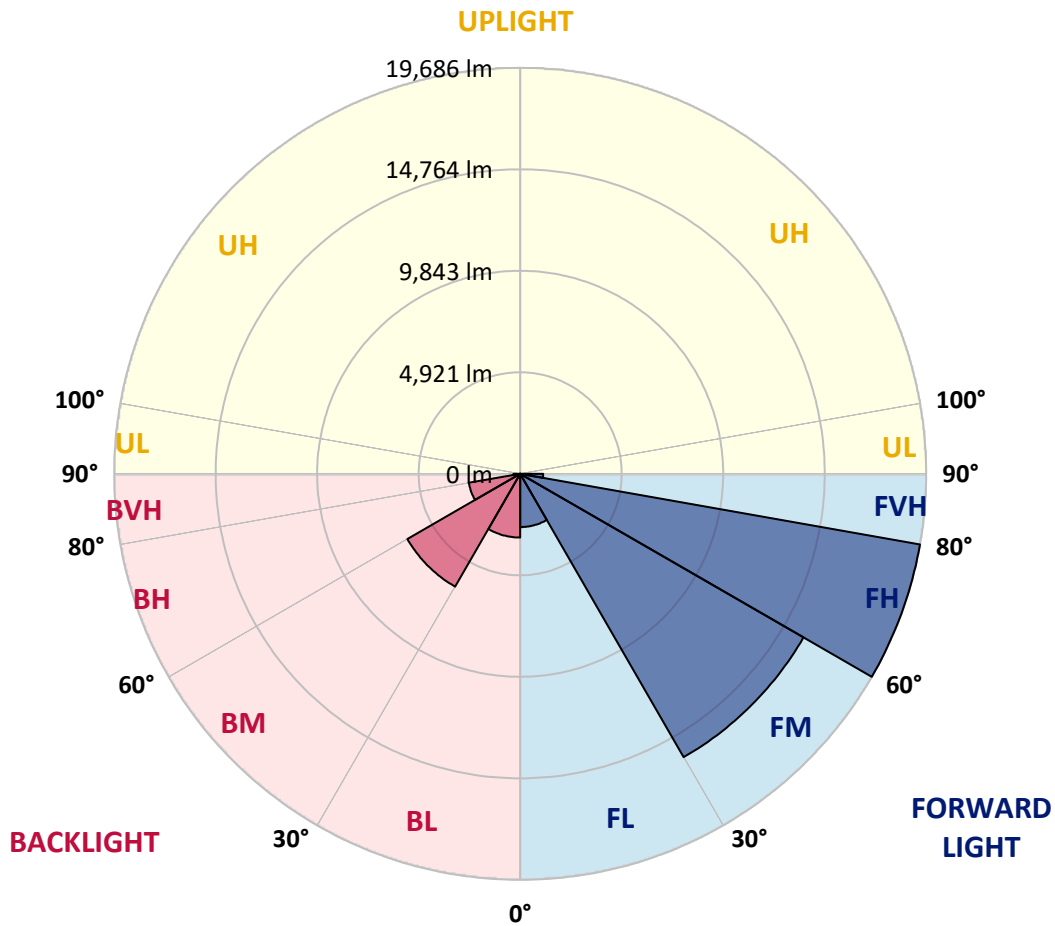
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2583.0	5.0			
FM (30°-60°)	15861.7	30.8			
FH (60°-80°)	19685.6	38.2			G5
FVH (80°-90°)	1120.1	2.2			G5
BL (0°-30°)	3089.1	6.0	B4/5000		
BM (30°-60°)	6315.9	12.3	B4/8500		
BH (60°-80°)	2527.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	325.5	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°	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8
2.5°	6329.2	6368.1	6384.9	6376.5	6418.3	6412.7	6471.2	6543.6	6643.8	6741.3	6883.3
5°	5841.9	5883.6	5919.8	5953.3	6034.0	6059.1	6151.0	6290.2	6474.0	6660.5	6894.4
7.5°	5388.0	5424.2	5479.9	5541.2	5677.6	5702.7	5855.8	6073.0	6329.2	6602.0	6925.0
10°	5017.7	5053.9	5112.3	5182.0	5351.8	5382.4	5577.4	5866.9	6201.1	6546.4	6958.5
12.5°	4859.0	4870.1	4903.5	4973.1	5120.7	5140.2	5354.6	5685.9	6075.8	6504.6	7008.6
15°	4850.6	4872.9	4875.7	4911.9	5034.4	5042.7	5240.4	5569.0	5997.8	6496.2	7083.8
17.5°	4934.1	4950.8	4925.8	4948.1	5051.1	5065.0	5220.9	5513.3	5972.7	6532.4	7211.9
20°	5156.9	5170.8	5095.6	5065.0	5140.2	5151.3	5304.5	5549.5	5997.8	6607.6	7387.3
22.5°	5630.3	5638.6	5454.8	5329.5	5335.1	5340.7	5474.3	5697.1	6095.3	6744.1	7610.0
25°	6368.1	6362.6	6070.2	5828.0	5688.7	5658.1	5747.2	5936.6	6259.6	6925.0	7896.8
27.5°	7231.3	7189.6	6897.2	6535.2	6231.7	6187.2	6167.7	6248.4	6493.5	7164.5	8247.7
30°	8205.9	8166.9	7852.3	7378.9	6958.5	6886.1	6702.3	6660.5	6841.5	7490.3	8735.0
32.5°	9275.2	9250.1	8874.2	8300.6	7738.1	7654.6	7345.5	7234.1	7376.1	7983.2	9414.4
35°	10171.8	10149.5	9837.6	9247.3	8559.5	8456.5	8141.9	8016.6	8089.0	8615.2	10302.6
37.5°	10982.1	10970.9	10703.6	10238.6	9528.6	9403.3	9049.6	9007.9	8993.9	9447.8	11380.2
40°	11733.9	11706.0	11427.6	11182.5	10656.3	10542.1	10230.2	10194.0	10088.2	10472.5	12599.9
42.5°	12566.4	12494.0	12090.3	11976.1	11834.1	11739.4	11552.9	11558.5	11324.6	11628.1	13891.9
45°	13245.9	13204.1	12789.2	12722.4	12875.5	12836.5	12998.0	13039.8	12585.9	12839.3	15234.0
47.5°	13975.4	13936.4	13585.6	13538.2	13953.1	13964.3	14535.1	14549.0	13816.7	14097.9	16578.9
50°	14874.8	14819.1	14471.0	14529.5	14994.5	15036.3	16080.5	15985.8	14950.0	15376.0	17912.7
52.5°	15467.9	15501.3	15426.1	15520.8	16155.7	16194.6	17600.8	17358.6	16072.1	16637.4	19221.4
55°	15905.1	15971.9	16205.8	16423.0	17380.8	17419.8	19034.8	18664.5	17002.1	17806.9	20452.1
57.5°	16467.5	16372.9	16810.0	17233.3	18544.8	18647.8	20429.9	19923.1	17826.4	18814.9	21295.8
60°	17275.0	17208.2	17547.9	18174.4	19847.9	20012.2	21905.7	21056.4	18430.6	19614.0	21460.1
62.5°	18912.3	18745.2	18798.2	19352.3	21490.8	21708.0	23570.8	22044.9	18731.3	19925.9	20580.2
65°	21359.9	21073.1	20805.8	21190.0	23804.7	24019.1	25450.3	22821.8	18619.9	19321.6	18244.0
67.5°	24442.3	24158.3	23829.7	24191.7	27212.9	27382.8	27769.8	23258.9	17742.8	16993.8	14114.6
70°	26984.6	26878.8	27271.4	28761.1	32656.6	32662.2	30743.7	22896.9	15339.8	12048.5	8166.9
72.5°	26647.7	26583.6	28652.5	33258.1	39517.6	39370.0	33558.8	20157.0	10333.3	5435.3	3060.2
75°	21861.1	22276.0	25480.9	33177.3	41981.9	41962.4	31835.2	12814.3	4274.2	2252.7	1581.6
77.5°	11722.7	12379.9	16542.7	24495.2	32773.6	33266.4	22381.8	4483.0	1835.0	1442.4	1094.3
80°	3823.1	4396.7	6593.7	12471.8	21295.8	21204.0	9592.6	1759.8	1255.8	1021.9	757.4
82.5°	1623.4	1690.2	2946.0	5889.2	10929.2	10759.3	3054.6	1010.8	882.7	698.9	467.8
85°	634.9	710.0	1300.4	2723.2	4733.6	4630.6	1102.7	501.2	565.3	456.7	278.4
87.5°	208.8	253.4	465.0	932.8	1473.0	1420.1	270.1	172.6	245.0	208.8	100.2
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°	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8	6863.8
2.5°	6922.3	6966.8	7019.7	7097.7	7164.5	7220.2	7278.7	7314.9	7328.8	7370.6	7367.8
5°	6972.4	7069.8	7200.7	7328.8	7454.1	7529.3	7596.1	7629.5	7660.2	7682.4	7688.0
7.5°	7055.9	7181.2	7387.3	7554.3	7660.2	7721.4	7766.0	7754.8	7766.0	7771.5	7779.9
10°	7128.3	7303.7	7548.8	7707.5	7788.2	7791.0	7779.9	7740.9	7721.4	7724.2	7729.8
12.5°	7214.6	7409.6	7674.1	7807.7	7830.0	7768.8	7721.4	7654.6	7629.5	7618.4	7612.8
15°	7331.6	7554.3	7810.5	7860.6	7805.0	7727.0	7646.2	7537.6	7481.9	7437.4	7451.3
17.5°	7473.6	7718.6	7916.3	7880.1	7760.4	7632.3	7501.4	7337.2	7223.0	7175.7	7178.4
20°	7671.3	7891.3	7997.1	7838.4	7657.4	7462.5	7239.7	7039.2	6933.4	6886.1	6880.5
22.5°	7910.8	8122.4	8075.0	7766.0	7509.8	7197.9	6919.5	6771.9	6719.0	6685.6	6691.2
25°	8197.6	8378.6	8130.7	7660.2	7267.5	6847.1	6632.7	6585.3	6560.3	6535.2	6535.2
27.5°	8570.7	8668.1	8172.5	7504.2	6888.8	6474.0	6396.0	6404.3	6396.0	6354.2	6362.6
30°	9063.5	9044.1	8211.5	7250.8	6454.5	6137.0	6142.6	6178.8	6184.4	6156.5	6170.4
32.5°	9712.3	9514.6	8231.0	6922.3	6039.6	5841.9	5847.4	5886.4	5914.3	5866.9	5889.2
35°	10497.6	10063.2	8200.3	6510.2	5719.4	5560.6	5518.9	5530.0	5538.4	5493.8	5524.4
37.5°	11413.7	10678.6	8063.9	6053.5	5454.8	5285.0	5195.9	5120.7	5076.1	5034.4	5062.2
40°	12418.9	11349.6	7813.3	5608.0	5159.7	4992.6	4859.0	4716.9	4566.6	4510.9	4535.9
42.5°	13471.4	12040.2	7509.8	5182.0	4820.0	4683.5	4541.5	4335.5	4109.9	3995.8	4009.7
45°	14562.9	12747.4	7211.9	4761.5	4471.9	4413.4	4249.1	4001.3	3756.3	3611.5	3600.4
47.5°	15632.2	13415.7	6774.7	4338.2	4146.1	4210.2	4082.1	3853.7	3580.9	3352.5	3327.5
50°	16654.1	14042.2	6059.1	3909.4	3881.6	4148.9	4026.4	3697.8	3386.0	3093.6	3068.5
52.5°	17667.6	14549.0	5143.0	3519.6	3739.6	4132.2	3954.0	3592.0	3210.5	2904.2	2870.8
55°	18528.1	14810.7	4260.3	3185.5	3533.5	3990.2	3867.7	3466.7	2962.7	2636.9	2609.1
57.5°	19018.1	14599.1	3525.2	2856.9	3249.5	3756.3	3720.1	3199.4	2667.5	2416.9	2383.5
60°	18806.5	13741.5	2923.7	2570.1	2979.4	3502.9	3463.9	2934.9	2442.0	2205.3	2171.9
62.5°	17639.8	12107.0	2447.6	2319.5	2734.4	3243.9	3207.7	2731.6	2269.4	2041.0	2004.8
65°	15289.7	9848.8	2077.2	2110.7	2486.6	2932.1	2985.0	2561.7	2132.9	1910.2	1874.0
67.5°	11661.5	7133.9	1787.6	1929.7	2244.3	2625.8	2778.9	2439.2	2018.8	1807.1	1773.7
70°	6646.6	4051.4	1542.6	1754.2	2029.9	2341.8	2620.2	2341.8	1896.2	1720.8	1698.5
72.5°	2520.0	1860.0	1333.8	1578.8	1823.8	2102.3	2444.8	2188.6	1754.2	1623.4	1601.1
75°	1344.9	1133.3	1122.2	1372.8	1587.2	1868.4	2224.8	2038.3	1648.4	1715.3	1770.9
77.5°	916.1	801.9	938.4	1175.1	1328.2	1609.4	1990.9	1809.9	1428.4	1422.9	1311.5
80°	634.9	568.0	763.0	946.7	1027.5	1353.3	1737.5	1553.8	1163.9	1086.0	1038.6
82.5°	381.5	370.3	570.8	707.3	726.8	1044.2	1439.6	1303.1	952.3	829.8	835.3
85°	208.8	220.0	364.8	414.9	423.2	729.5	1127.7	1008.0	732.3	615.4	620.9
87.5°	58.5	75.2	133.7	164.3	203.3	378.7	671.1	598.7	367.6	256.2	256.2
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)