

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: P970904

Luminaire Tested: **NAV-SB6C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970904
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-SB6C-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46459.2 lumens
Efficiency: N/A
Efficacy: 154.4 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): 300.9
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

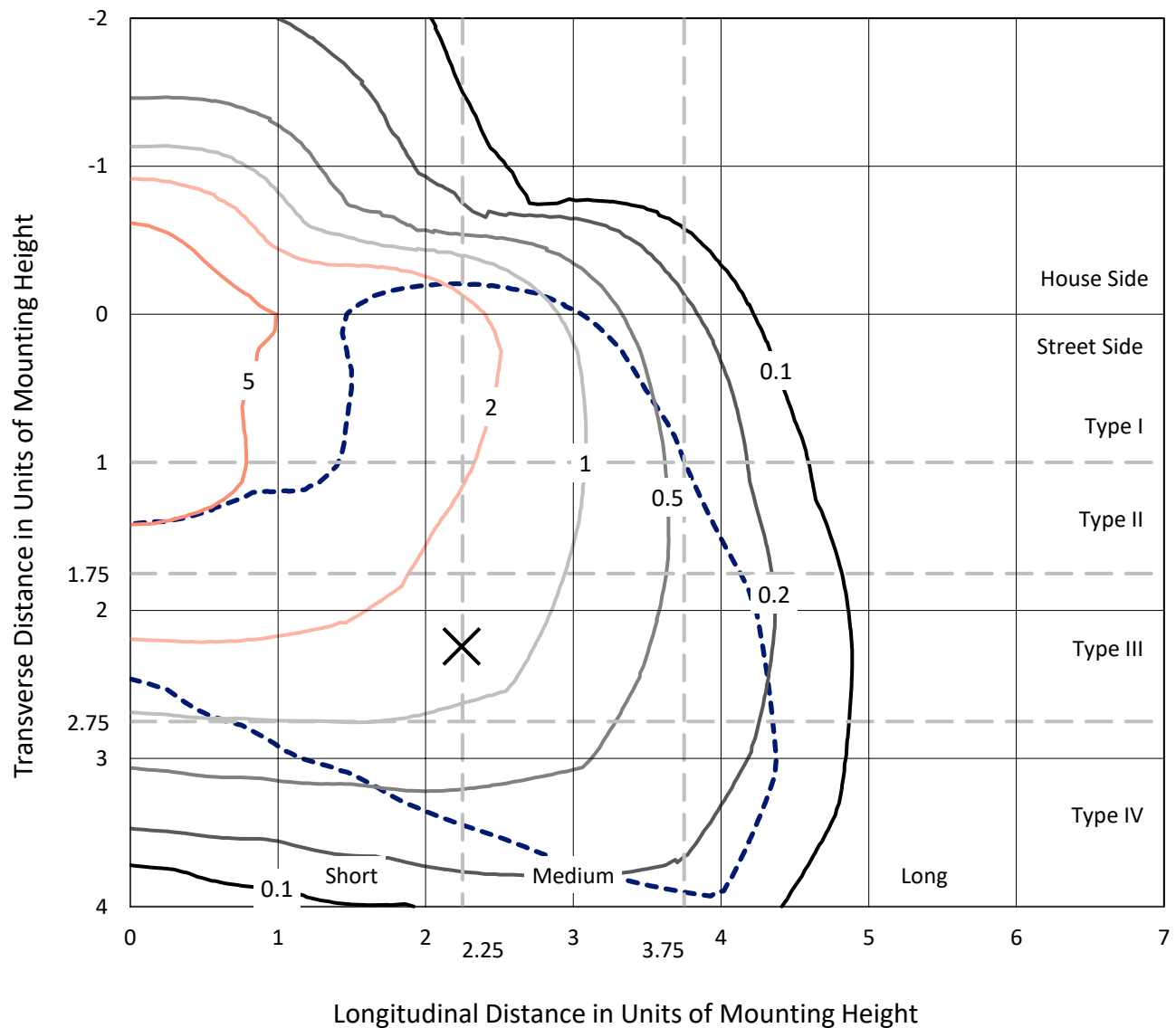


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Iso-Footcandle Lines of Horizontal Illumination

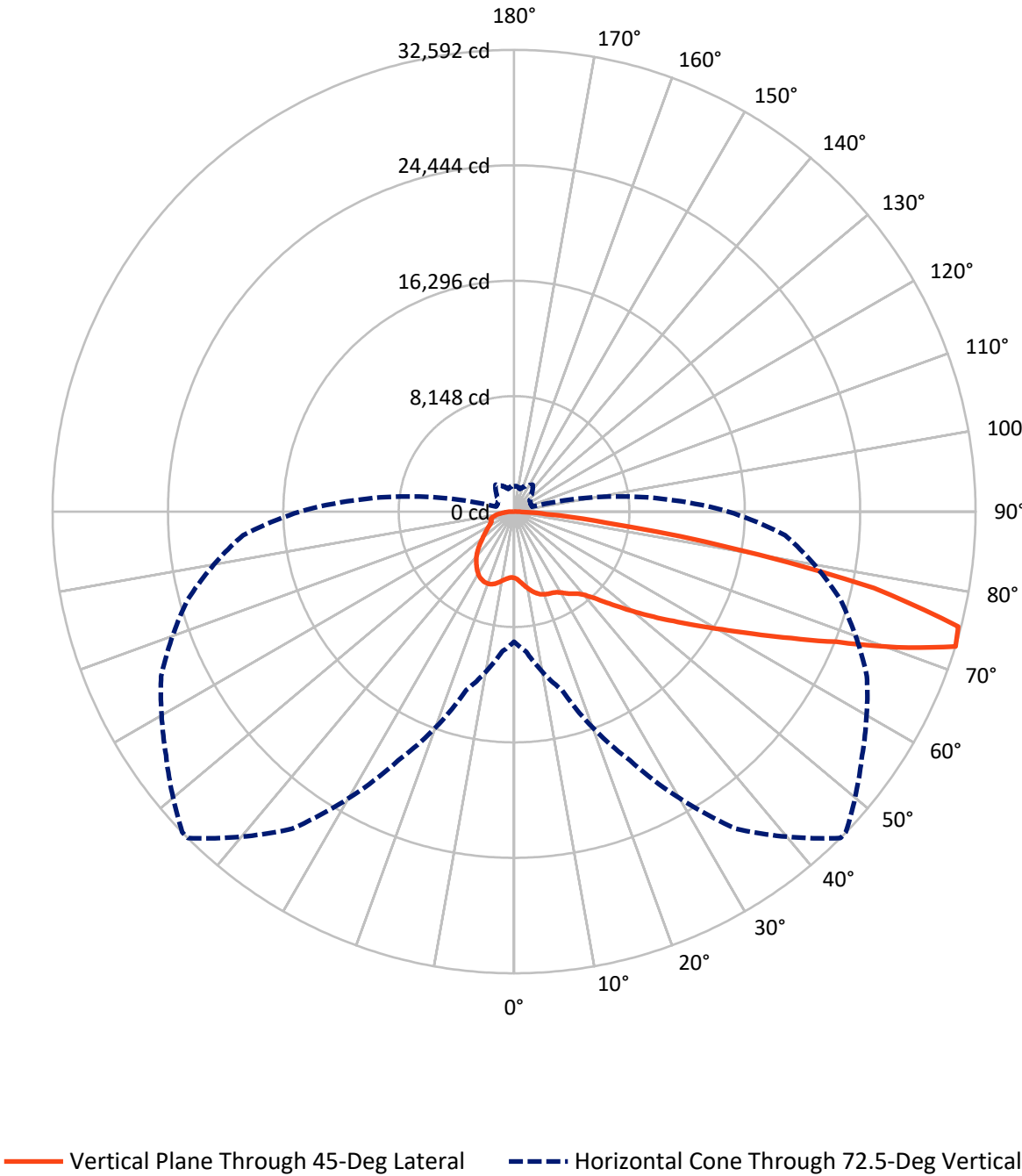
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	10502.8	0.0	10502.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	35956.3	0.0	35956.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	46459.2	0.0	46459.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	1.0
10°-20°	1590.5	3.4
20°-30°	2766.7	6.0
30°-40°	3966.2	8.5
40°-50°	5584.7	12.0
50°-60°	8554.1	18.4
60°-70°	12391.9	26.7
70°-80°	9895.6	21.3
80°-90°	1232.5	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°	46459.2	100.0
0°-180°	46459.2	100.0

Coefficient of Utilization



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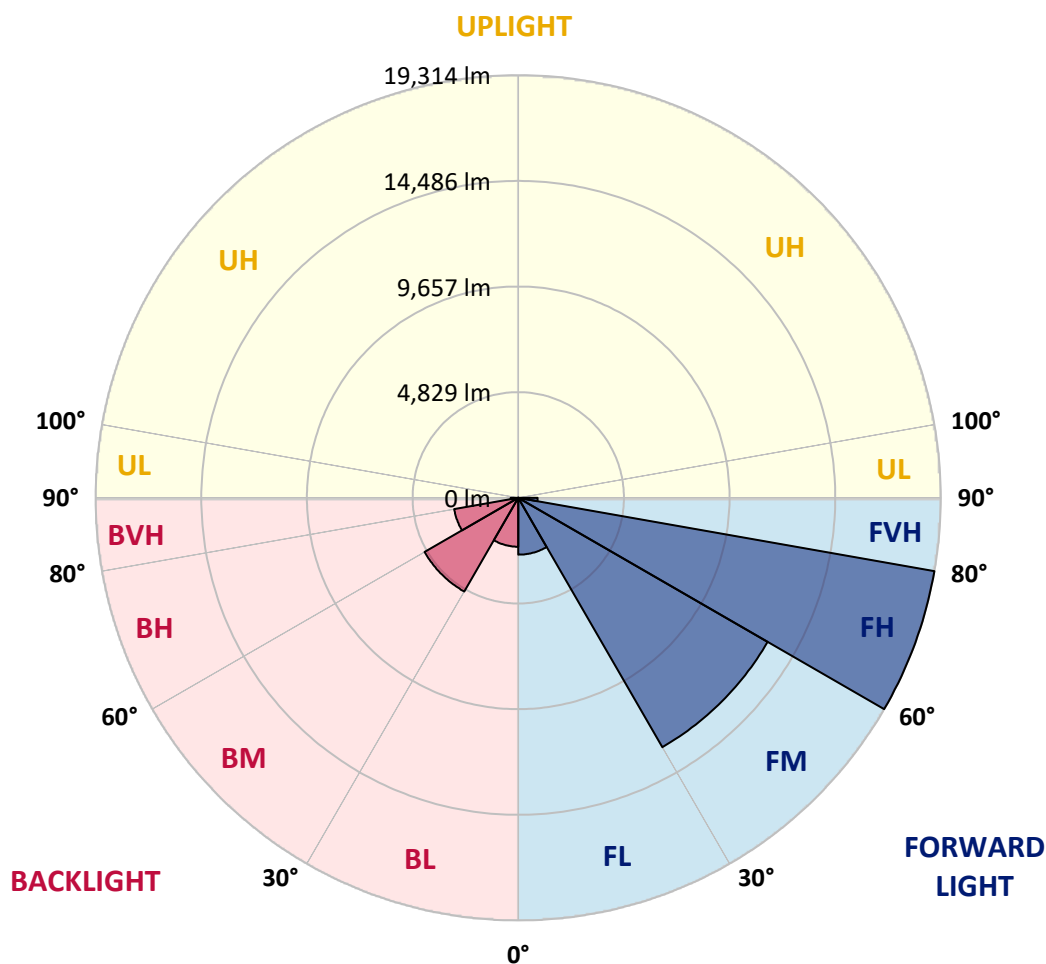
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2598.1	5.6			
FM	(30°-60°)	13159.7	28.3			
FH	(60°-80°)	19314.4	41.6			G5
FVH	(80°-90°)	884.2	1.9			G5
BL	(0°-30°)	2236.1	4.8	B3/2500		
BM	(30°-60°)	4945.3	10.6	B3/5000		
BH	(60°-80°)	2973.1	6.4	B4/5000		G4/5000
BVH	(80°-90°)	348.3	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°	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8
2.5°	4870.4	4902.2	4872.8	4845.9	4833.7	4801.8	4799.4	4779.8	4767.6	4733.3	4723.5
5°	5210.6	5252.2	5203.2	5149.4	5100.4	5022.1	5012.4	4956.1	4892.4	4818.9	4777.4
7.5°	5594.9	5631.6	5575.3	5494.5	5408.8	5279.1	5276.7	5173.9	5073.5	4948.7	4877.8
10°	5930.1	5979.0	5903.2	5793.1	5685.4	5538.5	5521.4	5403.9	5276.7	5115.2	5007.4
12.5°	6226.3	6260.5	6187.1	6052.5	5927.7	5780.8	5758.8	5629.1	5487.1	5303.6	5166.5
15°	6461.2	6505.3	6407.4	6263.0	6130.8	5986.4	5966.8	5849.4	5707.4	5514.1	5337.8
17.5°	6615.4	6652.1	6551.8	6390.3	6263.0	6143.0	6128.4	6030.5	5905.6	5709.9	5521.4
20°	6674.2	6713.3	6608.1	6444.1	6326.6	6233.6	6226.3	6155.3	6069.6	5891.0	5700.0
22.5°	6732.9	6769.6	6632.6	6461.2	6358.4	6299.6	6297.2	6250.8	6216.4	6069.6	5883.6
25°	6970.3	6980.0	6796.5	6549.3	6402.5	6351.1	6348.6	6346.2	6360.8	6245.8	6081.8
27.5°	7175.8	7173.4	7016.7	6784.3	6556.6	6449.0	6446.5	6471.0	6517.5	6422.0	6287.5
30°	7476.9	7450.0	7264.0	7021.7	6813.7	6647.2	6632.6	6610.5	6647.2	6571.4	6493.1
32.5°	8115.6	8030.1	7729.0	7298.2	7026.6	6899.3	6879.7	6742.7	6757.3	6710.9	6671.7
35°	9031.0	8918.4	8517.0	7822.0	7290.9	7109.8	7100.0	6926.2	6896.8	6855.2	6870.0
37.5°	10120.1	9980.6	9513.1	8580.7	7746.1	7354.5	7339.8	7183.2	7063.3	7019.2	7102.4
40°	11214.1	11037.9	10651.2	9505.8	8416.7	7763.2	7716.7	7479.3	7342.3	7268.9	7445.1
42.5°	12276.3	12129.4	11799.1	10543.6	9244.0	8360.4	8257.6	7851.4	7748.6	7680.0	7998.2
45°	13216.1	13083.9	12841.6	11652.2	10213.1	9172.9	9072.6	8409.4	8377.5	8377.5	8837.7
47.5°	13979.7	13950.4	13693.4	12782.9	11356.1	10098.1	9924.4	9185.2	9270.8	9403.0	10029.5
50°	14826.5	14745.8	14471.7	13896.5	12699.7	11157.8	11015.9	10137.2	10457.9	10820.1	11752.5
52.5°	15604.8	15648.9	15342.9	15056.5	14217.1	12340.0	12090.3	11260.6	11953.2	12552.9	13771.7
55°	16405.1	16407.6	16321.9	16282.7	15808.0	13646.8	13372.8	12611.6	13713.0	14456.9	16126.1
57.5°	17156.4	17161.4	17288.7	17633.7	17653.3	15154.5	14843.6	14271.0	15668.5	16427.2	18553.9
60°	17827.1	17861.3	18208.8	19016.5	19275.9	16882.4	16588.7	16231.4	17690.0	18453.6	21106.6
62.5°	18052.2	18177.0	18950.4	20098.3	20879.0	19001.9	18713.0	18500.1	19814.4	20524.1	23240.7
65°	17670.4	17956.8	19452.1	20991.6	22528.6	21520.2	21233.9	21001.3	22021.9	22690.1	24993.1
67.5°	16733.0	17102.6	19422.8	21929.0	24530.6	24550.2	24283.4	23737.6	24388.6	24645.6	25563.4
70°	14263.6	14816.7	17712.0	22278.9	26828.7	28693.6	28436.7	27031.8	26750.3	25507.1	23957.8
72.5°	9190.0	9934.1	13042.3	19398.3	27340.2	32592.4	32577.7	30005.4	27496.9	23833.1	19214.8
75°	3353.0	3808.2	6059.8	12176.0	22949.5	32394.2	32489.6	29496.4	25100.8	18409.5	11970.4
77.5°	1221.3	1336.3	1977.5	4679.4	14114.4	25991.6	26189.9	23580.9	17866.3	9239.0	4743.1
80°	641.2	704.9	1013.2	1816.0	6047.6	15435.9	15746.8	14014.0	8397.1	2782.8	1422.0
82.5°	354.9	384.3	567.8	986.4	2723.9	6600.7	6786.7	5536.1	2954.0	1179.7	587.4
85°	190.9	203.2	266.8	538.4	1331.4	2288.3	2339.8	1654.5	1177.2	692.6	283.9
87.5°	56.3	68.6	88.1	171.3	521.3	513.9	526.2	328.0	465.0	349.9	93.0
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°	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8	4686.8
2.5°	4708.8	4701.5	4674.6	4662.3	4647.7	4645.2	4657.5	4659.9	4662.3	4664.8	4674.6
5°	4752.9	4728.4	4703.9	4689.3	4694.2	4696.7	4721.0	4738.3	4750.5	4760.2	4765.1
7.5°	4838.6	4818.9	4777.4	4775.0	4782.2	4804.3	4836.2	4875.3	4897.3	4914.5	4919.3
10°	4965.8	4929.1	4880.1	4887.5	4902.2	4934.0	5000.1	5031.9	5068.6	5100.4	5093.1
12.5°	5095.6	5063.7	5007.4	5012.4	5036.8	5093.1	5156.8	5195.9	5220.3	5244.8	5254.7
15°	5264.4	5208.1	5146.9	5146.9	5191.0	5252.2	5281.5	5313.4	5328.1	5355.0	5364.7
17.5°	5438.1	5364.7	5284.0	5279.1	5333.0	5362.3	5379.4	5384.3	5389.2	5418.6	5428.4
20°	5612.0	5531.2	5416.2	5406.4	5418.6	5413.7	5411.3	5406.4	5413.7	5450.4	5465.1
22.5°	5783.3	5690.3	5531.2	5487.1	5452.9	5406.4	5403.9	5401.4	5406.4	5443.1	5467.6
25°	5984.0	5871.4	5658.4	5526.3	5411.3	5347.6	5355.0	5357.5	5362.3	5391.7	5430.9
27.5°	6201.8	6076.9	5776.0	5514.1	5306.0	5261.9	5249.7	5257.1	5274.2	5320.7	5367.2
30°	6419.6	6272.8	5883.6	5465.1	5173.9	5112.7	5073.5	5090.7	5144.5	5191.0	5242.4
32.5°	6617.8	6471.0	5969.3	5357.5	5005.0	4909.5	4858.2	4880.1	4934.0	4951.2	5012.4
35°	6850.4	6683.9	6006.0	5186.1	4821.4	4674.6	4606.0	4574.3	4601.1	4584.0	4637.9
37.5°	7109.8	6936.0	6001.1	4960.9	4606.0	4437.2	4341.7	4221.8	4165.5	4106.8	4143.5
40°	7494.0	7244.4	5942.3	4689.3	4339.3	4185.1	4013.8	3810.6	3683.3	3568.3	3575.7
42.5°	8017.8	7672.6	5834.7	4390.7	4038.3	3893.9	3661.4	3423.9	3223.2	3032.4	3015.2
45°	8798.5	8233.1	5700.0	4072.5	3712.8	3570.8	3318.7	3051.9	2824.3	2579.6	2550.2
47.5°	9924.4	8987.0	5572.8	3710.3	3370.1	3240.4	3012.8	2765.6	2496.4	2259.0	2232.0
50°	11471.1	10068.7	5455.4	3357.9	3032.4	2934.5	2753.4	2501.3	2229.6	2038.7	2026.4
52.5°	13438.8	11539.7	5406.4	3017.7	2716.7	2680.0	2535.5	2300.6	2043.6	1882.1	1869.8
55°	15697.8	13299.3	5406.4	2692.2	2440.1	2452.3	2352.0	2134.2	1911.4	1767.0	1752.3
57.5°	18003.3	15081.0	5308.5	2391.1	2205.1	2256.5	2192.9	2002.0	1801.3	1652.0	1627.5
60°	20127.6	16573.9	4912.0	2117.0	1997.1	2077.9	2036.3	1872.3	1627.5	1502.8	1483.2
62.5°	21760.0	17415.9	4148.4	1899.2	1825.7	1918.8	1896.8	1701.0	1595.7	1544.4	1527.1
65°	22577.5	17278.8	3171.9	1705.9	1681.4	1825.7	1779.3	1771.9	1688.7	1630.0	1610.4
67.5°	22075.8	16099.2	2300.6	1563.9	1598.2	1740.1	1918.8	1948.1	1794.0	1679.0	1659.4
70°	19875.6	13965.0	1713.2	1429.3	1492.9	1742.6	2188.0	2038.7	1759.7	1625.1	1603.1
72.5°	15120.2	10413.8	1328.9	1287.3	1355.9	1754.8	2307.9	1997.1	1661.8	1796.4	1781.8
75°	8646.8	5717.1	1067.1	1113.6	1184.6	1639.8	2246.7	1889.4	1586.0	1649.5	1649.5
77.5°	3296.7	2197.8	881.1	942.3	952.0	1431.7	2148.8	1882.1	1510.0	1473.3	1343.7
80°	1143.0	859.1	729.3	748.9	736.7	1272.6	2060.8	1637.3	1235.9	1106.3	1069.5
82.5°	467.5	428.3	577.6	553.1	523.8	988.7	1664.3	1338.8	1010.8	893.3	883.6
85°	203.2	271.6	381.8	335.3	303.5	685.3	1333.8	1133.1	854.1	736.7	734.2
87.5°	41.6	102.8	161.5	151.7	156.6	457.7	947.2	805.2	604.5	452.7	354.9
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)