

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: P885351

Luminaire Tested: **NAV-SB6C-830-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885351  
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-830-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 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: 39312 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

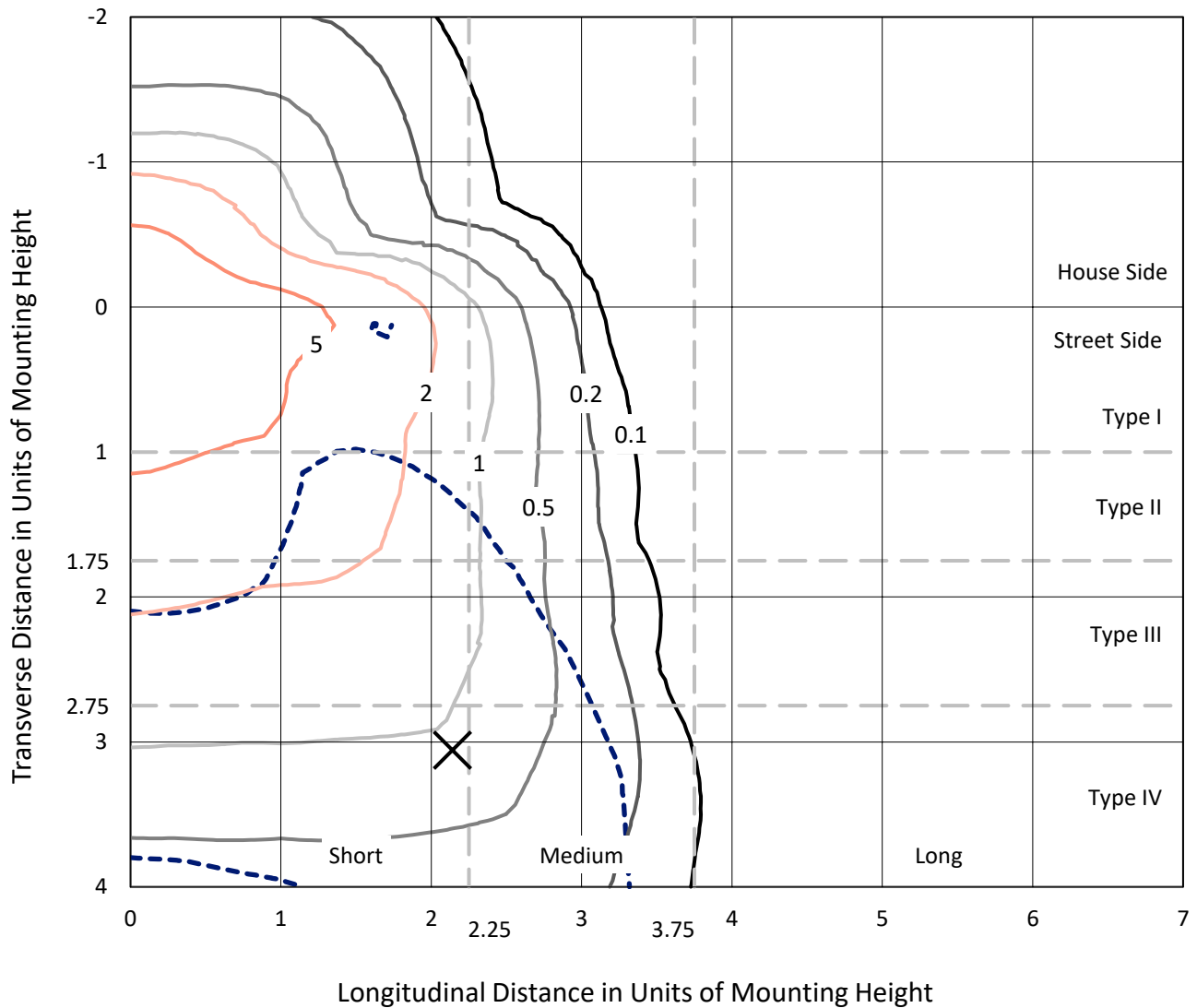
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

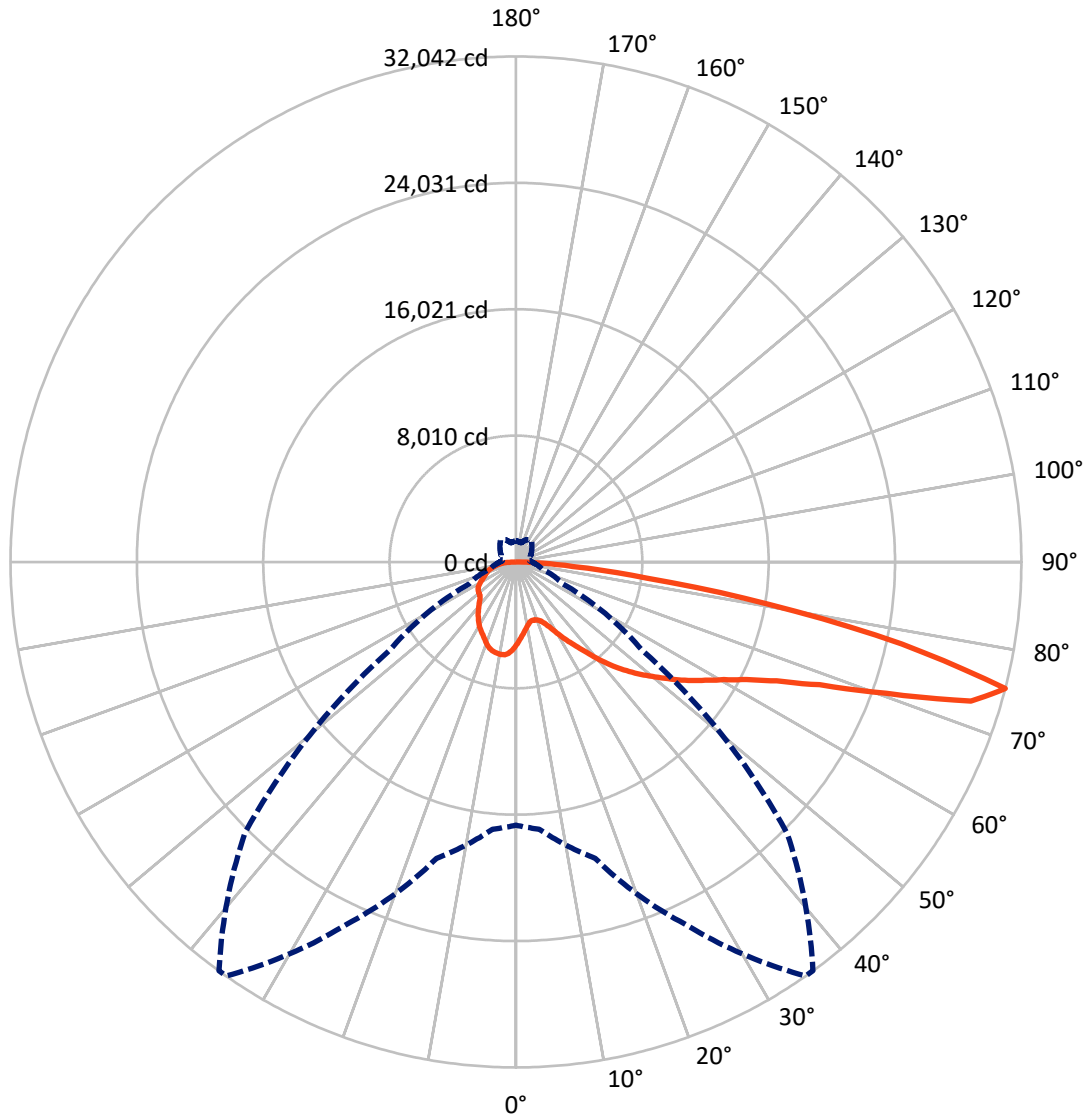
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	9355.3	0.0	9355.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	29956.7	0.0	29956.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	39312.0	0.0	39312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.0	1.3
10°-20°	1430.7	3.6
20°-30°	2402.4	6.1
30°-40°	3733.7	9.5
40°-50°	5541.8	14.1
50°-60°	7650.8	19.5
60°-70°	9282.2	23.6
70°-80°	7671.0	19.5
80°-90°	1103.3	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°	39312.0	100.0
0°-180°	39312.0	100.0

**Coefficient of Utilization**



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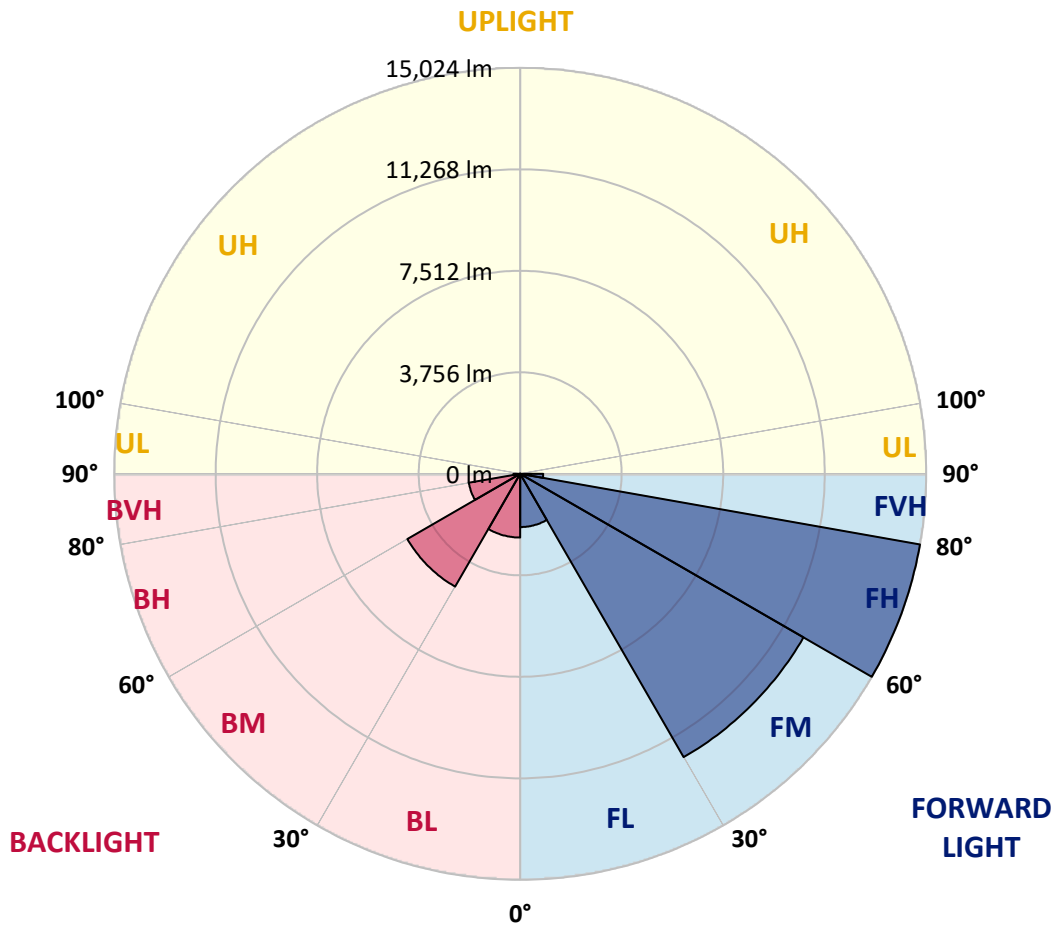
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.4	5.0			
FM (30°-60°)	12106.0	30.8			
FH (60°-80°)	15024.5	38.2			G5
FVH (80°-90°)	854.9	2.2			G5
BL (0°-30°)	2357.7	6.0	B3/2500		
BM (30°-60°)	4820.4	12.3	B3/5000		
BH (60°-80°)	1928.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	248.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6
2.5°	4830.6	4860.3	4873.1	4866.7	4898.6	4894.3	4938.9	4994.2	5070.7	5145.1	5253.5
5°	4458.6	4490.5	4518.2	4543.7	4605.3	4624.4	4694.5	4800.8	4941.1	5083.5	5262.0
7.5°	4112.2	4139.9	4182.4	4229.1	4333.3	4352.4	4469.3	4635.0	4830.6	5038.8	5285.3
10°	3829.6	3857.2	3901.8	3955.0	4084.6	4108.0	4256.8	4477.8	4732.8	4996.3	5310.8
12.5°	3708.5	3717.0	3742.5	3795.6	3908.2	3923.1	4086.7	4339.6	4637.2	4964.4	5349.1
15°	3702.1	3719.1	3721.2	3748.8	3842.3	3848.7	3999.6	4250.4	4577.7	4958.1	5406.5
17.5°	3765.8	3778.6	3759.5	3776.5	3855.1	3865.7	3984.7	4207.9	4558.5	4985.7	5504.2
20°	3935.8	3946.5	3889.1	3865.7	3923.1	3931.6	4048.5	4235.5	4577.7	5043.1	5638.1
22.5°	4297.1	4303.5	4163.2	4067.6	4071.9	4076.1	4178.1	4348.1	4652.0	5147.2	5808.1
25°	4860.3	4856.1	4632.9	4448.0	4341.8	4318.4	4386.4	4530.9	4777.4	5285.3	6027.0
27.5°	5519.1	5487.2	5264.1	4987.8	4756.2	4722.2	4707.3	4768.9	4955.9	5468.1	6294.8
30°	6262.9	6233.2	5993.0	5631.7	5310.8	5255.6	5115.3	5083.5	5221.6	5716.8	6666.7
32.5°	7079.0	7059.9	6773.0	6335.2	5905.9	5842.1	5606.2	5521.2	5629.6	6092.9	7185.3
35°	7763.3	7746.3	7508.3	7057.8	6532.8	6454.2	6214.1	6118.4	6173.7	6575.3	7863.2
37.5°	8381.7	8373.2	8169.2	7814.3	7272.4	7176.8	6906.9	6875.0	6864.4	7210.8	8685.6
40°	8955.5	8934.3	8721.8	8534.8	8133.1	8046.0	7807.9	7780.3	7699.6	7992.8	9616.5
42.5°	9591.0	9535.7	9227.6	9140.4	9032.1	8959.8	8817.4	8821.7	8643.1	8874.8	10602.6
45°	10109.5	10077.6	9761.0	9710.0	9826.9	9797.1	9920.4	9952.3	9605.9	9799.2	11626.9
47.5°	10666.3	10636.6	10368.8	10332.7	10649.3	10657.8	11093.5	11104.1	10545.2	10759.8	12653.4
50°	11352.8	11310.3	11044.6	11089.2	11444.1	11476.0	12273.0	12200.7	11410.1	11735.3	13671.3
52.5°	11805.4	11830.9	11773.5	11845.8	12330.3	12360.1	13433.3	13248.4	12266.6	12698.0	14670.2
55°	12139.1	12190.1	12368.6	12534.4	13265.4	13295.2	14527.8	14245.1	12976.4	13590.6	15609.5
57.5°	12568.4	12496.1	12829.8	13152.8	14153.8	14232.4	15592.5	15205.7	13605.5	14359.9	16253.4
60°	13184.7	13133.7	13392.9	13871.1	15148.3	15273.7	16718.9	16070.7	14066.6	14969.8	16378.8
62.5°	14434.3	14306.8	14347.1	14770.1	16402.2	16568.0	17989.7	16825.1	14296.1	15207.8	15707.3
65°	16302.3	16083.4	15879.4	16172.7	18168.2	18331.9	19424.2	17418.0	14211.1	14746.7	13924.2
67.5°	18654.9	18438.1	18187.4	18463.6	20769.5	20899.1	21194.5	17751.7	13541.7	12970.0	10772.6
70°	20595.2	20514.4	20814.1	21951.1	24924.2	24928.5	23464.2	17475.4	11707.7	9195.7	6233.2
72.5°	20338.1	20289.2	21868.2	25383.3	30160.7	30048.0	25612.8	15384.2	7886.6	4148.4	2335.6
75°	16684.9	17001.5	19447.6	25321.6	32041.5	32026.6	24297.3	9780.1	3262.2	1719.3	1207.1
77.5°	8947.0	9448.6	12625.7	18695.3	25013.5	25389.6	17082.3	3421.6	1400.5	1100.8	835.2
80°	2917.9	3355.7	5032.4	9518.7	16253.4	16183.3	7321.3	1343.1	958.5	779.9	578.1
82.5°	1239.0	1290.0	2248.4	4494.8	8341.4	8211.7	2331.3	771.4	673.7	533.4	357.0
85°	484.5	541.9	992.5	2078.4	3612.8	3534.2	841.6	382.5	431.4	348.5	212.5
87.5°	159.4	193.4	354.9	711.9	1124.2	1083.8	206.1	131.8	187.0	159.4	76.5
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°	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6
2.5°	5283.2	5317.2	5357.6	5417.1	5468.1	5510.6	5555.2	5582.9	5593.5	5625.4	5623.2
5°	5321.5	5395.9	5495.7	5593.5	5689.1	5746.5	5797.5	5823.0	5846.4	5863.4	5867.6
7.5°	5385.2	5480.9	5638.1	5765.6	5846.4	5893.1	5927.2	5918.7	5927.2	5931.4	5937.8
10°	5440.5	5574.4	5761.4	5882.5	5944.2	5946.3	5937.8	5908.0	5893.1	5895.3	5899.5
12.5°	5506.4	5655.1	5857.0	5959.0	5976.0	5929.3	5893.1	5842.1	5823.0	5814.5	5810.3
15°	5595.6	5765.6	5961.2	5999.4	5956.9	5897.4	5835.8	5752.9	5710.4	5676.4	5687.0
17.5°	5704.0	5891.0	6041.9	6014.3	5922.9	5825.1	5725.3	5599.9	5512.7	5476.6	5478.7
20°	5854.9	6022.8	6103.5	5982.4	5844.3	5695.5	5525.5	5372.5	5291.7	5255.6	5251.3
22.5°	6037.7	6199.2	6163.0	5927.2	5731.6	5493.6	5281.1	5168.5	5128.1	5102.6	5106.8
25°	6256.6	6394.7	6205.6	5846.4	5546.7	5225.8	5062.2	5026.1	5006.9	4987.8	4987.8
27.5°	6541.3	6615.7	6237.4	5727.4	5257.7	4941.1	4881.6	4887.9	4881.6	4849.7	4856.1
30°	6917.5	6902.6	6267.2	5534.0	4926.2	4683.9	4688.2	4715.8	4720.0	4698.8	4709.4
32.5°	7412.7	7261.8	6282.1	5283.2	4609.5	4458.6	4462.9	4492.6	4513.9	4477.8	4494.8
35°	8012.0	7680.4	6258.7	4968.7	4365.1	4244.0	4212.1	4220.6	4227.0	4193.0	4216.4
37.5°	8711.1	8150.1	6154.5	4620.2	4163.2	4033.6	3965.6	3908.2	3874.2	3842.3	3863.6
40°	9478.3	8662.3	5963.3	4280.1	3938.0	3810.5	3708.5	3600.1	3485.3	3442.8	3461.9
42.5°	10281.7	9189.3	5731.6	3955.0	3678.7	3574.6	3466.2	3308.9	3136.8	3049.6	3060.3
45°	11114.7	9729.1	5504.2	3634.1	3413.1	3368.4	3243.0	3053.9	2866.9	2756.4	2747.9
47.5°	11930.8	10239.2	5170.6	3311.0	3164.4	3213.3	3115.5	2941.3	2733.0	2558.7	2539.6
50°	12710.8	10717.3	4624.4	2983.8	2962.5	3166.5	3073.0	2822.3	2584.2	2361.1	2342.0
52.5°	13484.3	11104.1	3925.2	2686.2	2854.1	3153.8	3017.8	2741.5	2450.3	2216.6	2191.1
55°	14141.0	11303.9	3251.5	2431.2	2696.9	3045.4	2951.9	2645.9	2261.2	2012.6	1991.3
57.5°	14515.0	11142.4	2690.5	2180.4	2480.1	2866.9	2839.3	2441.8	2035.9	1844.7	1819.2
60°	14353.5	10487.8	2231.4	1961.5	2274.0	2673.5	2643.7	2239.9	1863.8	1683.1	1657.6
62.5°	13463.1	9240.3	1868.0	1770.3	2086.9	2475.8	2448.2	2084.8	1732.0	1557.8	1530.1
65°	11669.4	7516.8	1585.4	1610.9	1897.8	2237.8	2278.2	1955.2	1627.9	1457.9	1430.3
67.5°	8900.3	5444.7	1364.4	1472.8	1712.9	2004.1	2120.9	1861.7	1540.8	1379.2	1353.7
70°	5072.8	3092.1	1177.4	1338.9	1549.3	1787.3	1999.8	1787.3	1447.3	1313.4	1296.4
72.5°	1923.3	1419.6	1018.0	1205.0	1392.0	1604.5	1865.9	1670.4	1338.9	1239.0	1222.0
75°	1026.5	865.0	856.5	1047.7	1211.4	1426.0	1698.0	1555.6	1258.1	1309.1	1351.6
77.5°	699.2	612.1	716.2	896.8	1013.7	1228.4	1519.5	1381.4	1090.2	1086.0	1001.0
80°	484.5	433.5	582.3	722.6	784.2	1032.8	1326.1	1185.9	888.3	828.8	792.7
82.5°	291.2	282.7	435.7	539.8	554.7	796.9	1098.7	994.6	726.8	633.3	637.6
85°	159.4	167.9	278.4	316.7	323.0	556.8	860.7	769.3	558.9	469.7	473.9
87.5°	44.6	57.4	102.0	125.4	155.1	289.0	512.2	456.9	280.5	195.5	195.5
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)