

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: P885291

Luminaire Tested: **NAV-SB6C-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885291
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-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 44226 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

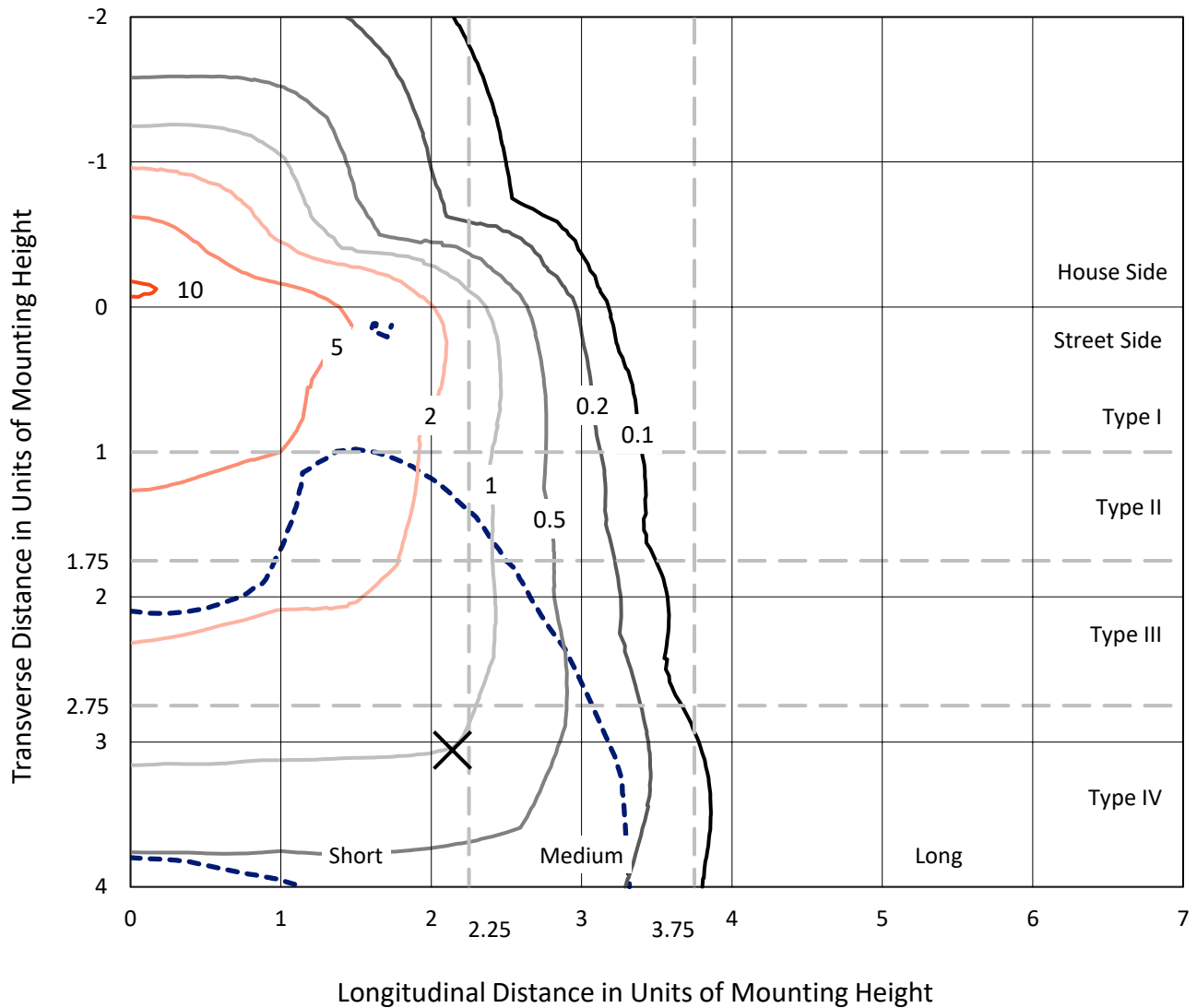
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

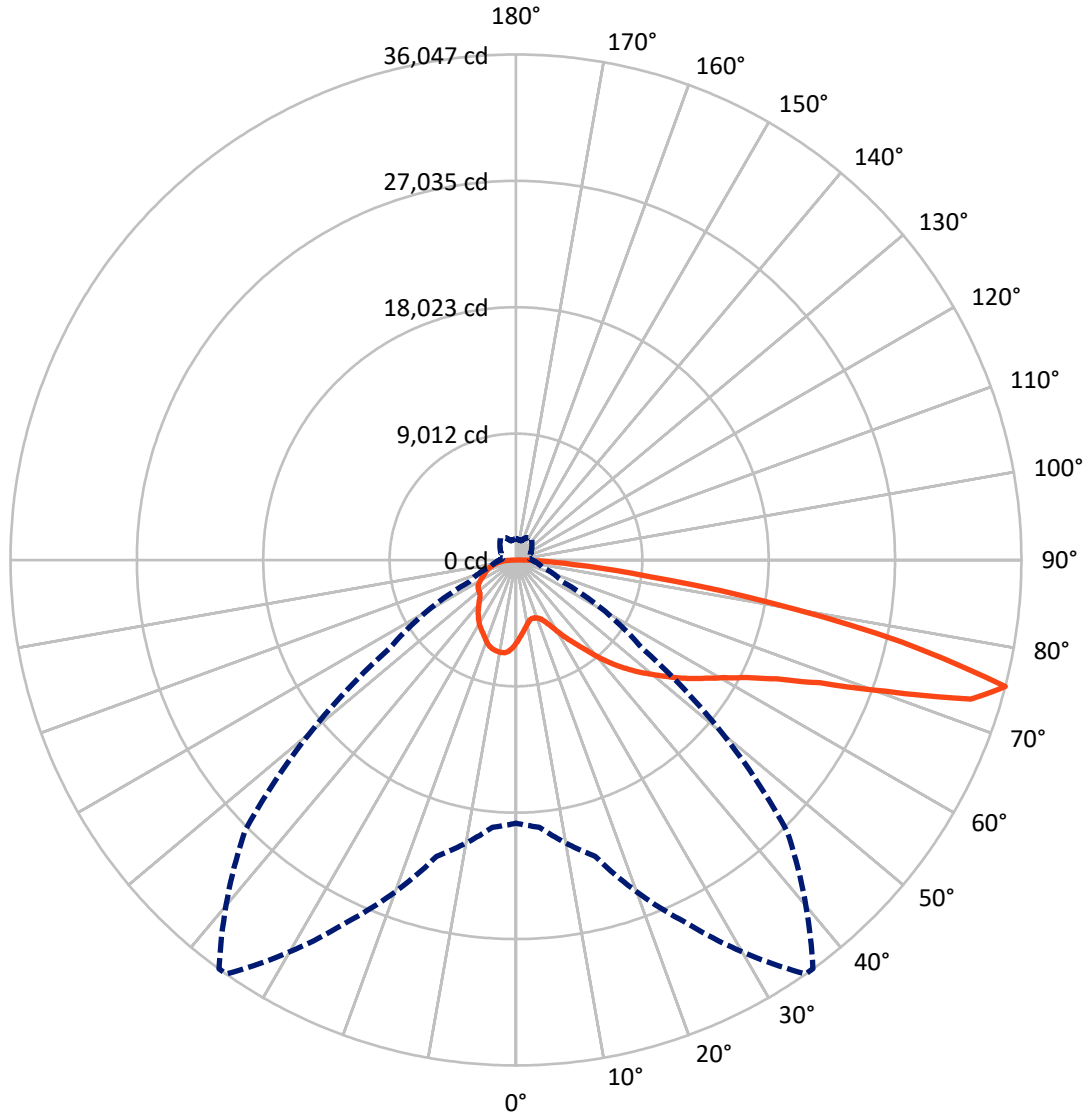
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10524.7	0.0	10524.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33701.3	0.0	33701.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	44226.0	0.0	44226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	1.3
10°-20°	1609.5	3.6
20°-30°	2702.7	6.1
30°-40°	4200.4	9.5
40°-50°	6234.6	14.1
50°-60°	8607.2	19.5
60°-70°	10442.5	23.6
70°-80°	8629.9	19.5
80°-90°	1241.2	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°	44226.0	100.0
0°-180°	44226.0	100.0

Coefficient of Utilization



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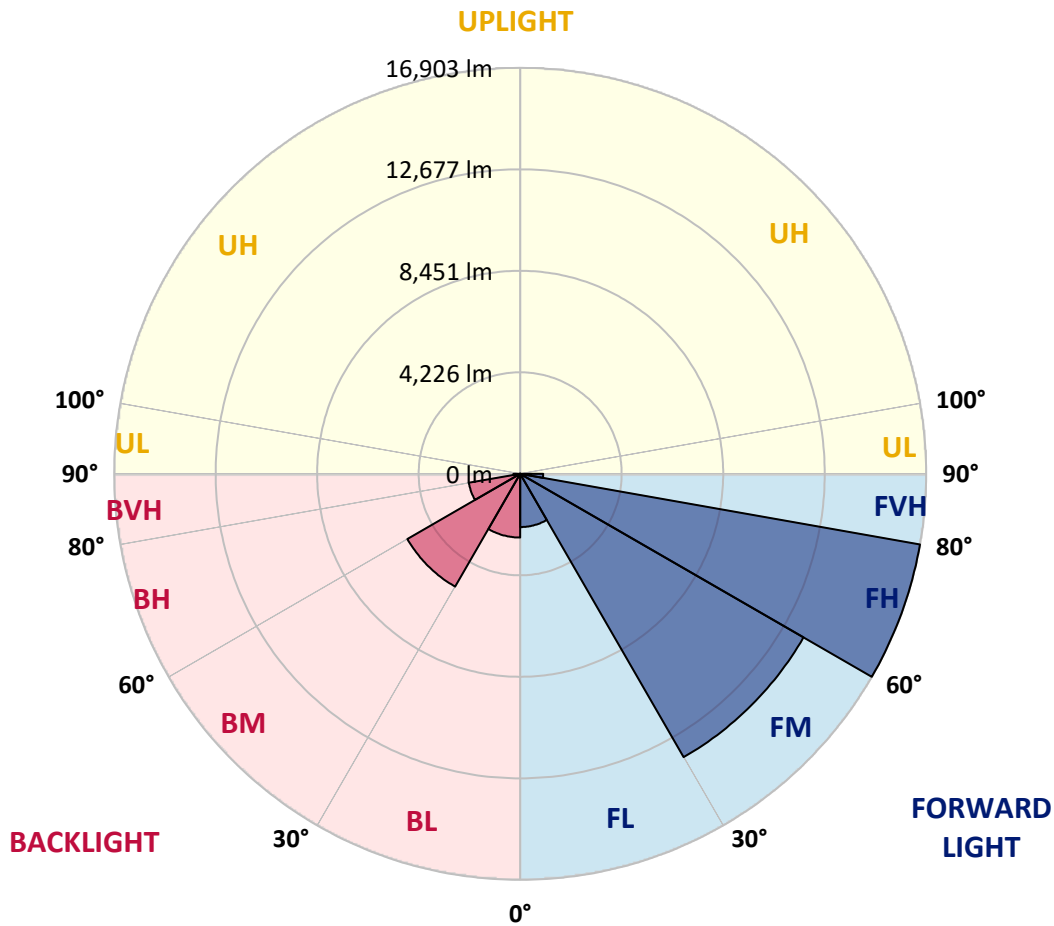
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.8	5.0			
FM (30°-60°)	13619.2	30.8			
FH (60°-80°)	16902.5	38.2			G5
FVH (80°-90°)	961.7	2.2			G5
BL (0°-30°)	2652.4	6.0	B4/5000		
BM (30°-60°)	5423.0	12.3	B4/8500		
BH (60°-80°)	2169.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	279.5	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°	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4
2.5°	5434.4	5467.8	5482.2	5475.0	5510.9	5506.1	5556.3	5618.5	5704.5	5788.2	5910.1
5°	5016.0	5051.8	5082.9	5111.6	5180.9	5202.5	5281.4	5400.9	5558.7	5718.9	5919.7
7.5°	4626.3	4657.4	4705.2	4757.8	4874.9	4896.4	5027.9	5214.4	5434.4	5668.7	5946.0
10°	4308.3	4339.4	4389.6	4449.3	4595.2	4621.5	4788.8	5037.5	5324.4	5620.9	5974.7
12.5°	4172.0	4181.6	4210.3	4270.0	4396.7	4413.5	4597.6	4882.1	5216.8	5585.0	6017.7
15°	4164.8	4184.0	4186.4	4217.4	4322.6	4329.8	4499.6	4781.7	5149.9	5577.8	6082.3
17.5°	4236.6	4250.9	4229.4	4248.5	4337.0	4348.9	4482.8	4733.9	5128.3	5608.9	6192.3
20°	4427.8	4439.8	4375.2	4348.9	4413.5	4423.0	4554.5	4764.9	5149.9	5673.5	6342.9
22.5°	4834.3	4841.4	4683.7	4576.1	4580.8	4585.6	4700.4	4891.7	5233.5	5790.6	6534.2
25°	5467.8	5463.1	5212.0	5004.0	4884.5	4858.2	4934.7	5097.3	5374.6	5946.0	6780.4
27.5°	6209.0	6173.1	5922.1	5611.3	5350.7	5312.4	5295.7	5365.0	5575.4	6151.6	7081.7
30°	7045.8	7012.3	6742.2	6335.7	5974.7	5912.5	5754.7	5718.9	5874.3	6431.4	7500.1
32.5°	7963.9	7942.4	7619.6	7127.1	6644.1	6572.4	6307.0	6211.4	6333.3	6854.5	8083.4
35°	8733.7	8714.6	8446.8	7940.0	7349.4	7261.0	6990.8	6883.2	6945.4	7397.3	8846.1
37.5°	9429.5	9419.9	9190.4	8791.1	8181.4	8073.9	7770.2	7734.4	7722.4	8112.1	9771.4
40°	10075.0	10051.1	9812.0	9601.6	9149.7	9051.7	8783.9	8752.9	8662.0	8991.9	10818.5
42.5°	10789.8	10727.7	10381.0	10283.0	10161.1	10079.8	9919.6	9924.4	9723.5	9984.1	11927.9
45°	11373.2	11337.3	10981.1	10923.7	11055.2	11021.8	11160.4	11196.3	10806.6	11024.2	13080.3
47.5°	11999.6	11966.1	11664.9	11624.3	11980.5	11990.0	12480.2	12492.1	11863.3	12104.8	14235.0
50°	12771.9	12724.0	12425.2	12475.4	12874.7	12910.5	13807.1	13725.8	12836.4	13202.2	15380.3
52.5°	13281.1	13309.8	13245.2	13326.5	13871.6	13905.1	15112.5	14904.5	13799.9	14285.3	16503.9
55°	13656.5	13713.8	13914.7	14101.2	14923.6	14957.1	16343.8	16025.8	14598.5	15289.4	17560.7
57.5°	14139.4	14058.1	14433.5	14796.9	15923.0	16011.4	17541.6	17106.4	15306.1	16154.9	18285.1
60°	14832.8	14775.4	15067.1	15605.0	17041.9	17182.9	18808.7	18079.5	15825.0	16841.1	18426.2
62.5°	16238.6	16095.1	16140.5	16616.3	18452.5	18639.0	20238.4	18928.3	16083.2	17108.8	17670.7
65°	18340.1	18093.9	17864.3	18194.3	20439.3	20623.4	21852.3	19595.3	15987.5	16590.0	15664.8
67.5°	20986.8	20742.9	20460.8	20771.6	23365.7	23511.5	23843.8	19970.7	15234.4	14591.3	12119.2
70°	23169.6	23078.8	23415.9	24695.0	28039.7	28044.5	26397.2	19659.9	13171.1	10345.2	7012.3
72.5°	22880.3	22825.3	24601.7	28556.2	33930.8	33804.0	28814.4	17307.3	8872.4	4666.9	2627.5
75°	18770.5	19126.7	21878.6	28486.8	36046.7	36029.9	27334.4	11002.6	3669.9	1934.2	1358.0
77.5°	10065.4	10629.7	14204.0	21032.2	28140.2	28563.3	19217.5	3849.2	1575.6	1238.5	939.6
80°	3282.6	3775.1	5661.5	10708.6	18285.1	18206.2	8236.4	1511.0	1078.3	877.4	650.3
82.5°	1393.9	1451.2	2529.5	5056.6	9384.0	9238.2	2622.7	867.9	757.9	600.1	401.7
85°	545.1	609.7	1116.5	2338.2	4064.4	3976.0	946.8	430.4	485.3	392.1	239.1
87.5°	179.3	217.6	399.3	800.9	1264.8	1219.3	231.9	148.2	210.4	179.3	86.1
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°	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4
2.5°	5943.6	5981.9	6027.3	6094.2	6151.6	6199.4	6249.6	6280.7	6292.7	6328.5	6326.2
5°	5986.7	6070.3	6182.7	6292.7	6400.3	6464.8	6522.2	6550.9	6577.2	6596.3	6601.1
7.5°	6058.4	6166.0	6342.9	6486.3	6577.2	6629.8	6668.0	6658.5	6668.0	6672.8	6680.0
10°	6120.5	6271.2	6481.6	6617.8	6687.2	6689.6	6680.0	6646.5	6629.8	6632.2	6637.0
12.5°	6194.7	6362.0	6589.1	6703.9	6723.0	6670.4	6629.8	6572.4	6550.9	6541.3	6536.5
15°	6295.1	6486.3	6706.3	6749.3	6701.5	6634.6	6565.2	6472.0	6424.2	6385.9	6397.9
17.5°	6417.0	6627.4	6797.2	6766.1	6663.3	6553.3	6440.9	6299.9	6201.8	6161.2	6163.6
20°	6586.8	6775.6	6866.5	6730.2	6574.8	6407.4	6216.2	6044.0	5953.2	5912.5	5907.8
22.5°	6792.4	6974.1	6933.4	6668.0	6448.1	6180.3	5941.2	5814.5	5769.1	5740.4	5745.2
25°	7038.6	7194.0	6981.2	6577.2	6240.1	5879.1	5695.0	5654.3	5632.8	5611.3	5611.3
27.5°	7359.0	7442.7	7017.1	6443.3	5914.9	5558.7	5491.8	5498.9	5491.8	5455.9	5463.1
30°	7782.2	7765.4	7050.6	6225.7	5542.0	5269.4	5274.2	5305.3	5310.0	5286.1	5298.1
32.5°	8339.2	8169.5	7067.3	5943.6	5185.7	5016.0	5020.8	5054.2	5078.1	5037.5	5056.6
35°	9013.5	8640.5	7041.0	5589.8	4910.8	4774.5	4738.6	4748.2	4755.4	4717.1	4743.4
37.5°	9800.0	9168.9	6923.9	5197.7	4683.7	4537.8	4461.3	4396.7	4358.5	4322.6	4346.5
40°	10663.1	9745.1	6708.7	4815.1	4430.2	4286.8	4172.0	4050.1	3921.0	3873.2	3894.7
42.5°	11566.9	10338.0	6448.1	4449.3	4138.5	4021.4	3899.5	3722.5	3528.9	3430.9	3442.8
45°	12504.1	10945.3	6192.3	4088.3	3839.7	3789.5	3648.4	3435.6	3225.2	3100.9	3091.4
47.5°	13422.2	11519.1	5816.9	3724.9	3560.0	3614.9	3505.0	3308.9	3074.6	2878.6	2857.1
50°	14299.6	12057.0	5202.5	3356.7	3332.8	3562.3	3457.2	3175.0	2907.3	2656.2	2634.7
52.5°	15169.9	12492.1	4415.9	3022.0	3210.9	3548.0	3395.0	3084.2	2756.6	2493.6	2465.0
55°	15908.6	12716.9	3658.0	2735.1	3034.0	3426.1	3320.9	2976.6	2543.9	2264.1	2240.2
57.5°	16329.4	12535.2	3026.8	2453.0	2790.1	3225.2	3194.2	2747.1	2290.4	2075.2	2046.6
60°	16147.7	11798.8	2510.4	2206.7	2558.2	3007.7	2974.2	2519.9	2096.8	1893.5	1864.9
62.5°	15146.0	10395.4	2101.5	1991.6	2347.8	2785.3	2754.2	2345.4	1948.5	1752.5	1721.4
65°	13128.1	8456.4	1783.6	1812.3	2135.0	2517.6	2563.0	2199.6	1831.4	1640.1	1609.0
67.5°	10012.8	6125.3	1534.9	1656.9	1927.0	2254.6	2386.1	2094.4	1733.4	1551.7	1523.0
70°	5706.9	3478.7	1324.5	1506.2	1742.9	2010.7	2249.8	2010.7	1628.2	1477.5	1458.4
72.5°	2163.7	1597.1	1145.2	1355.6	1566.0	1805.1	2099.2	1879.2	1506.2	1393.9	1374.7
75°	1154.8	973.1	963.5	1178.7	1362.8	1604.3	1910.3	1750.1	1415.4	1472.8	1520.6
77.5°	786.6	688.6	805.7	1008.9	1140.4	1381.9	1709.4	1554.0	1226.5	1221.7	1126.1
80°	545.1	487.7	655.1	812.9	882.2	1161.9	1491.9	1334.1	999.4	932.4	891.8
82.5°	327.5	318.0	490.1	607.3	624.0	896.6	1236.1	1118.9	817.7	712.5	717.3
85°	179.3	188.9	313.2	356.2	363.4	626.4	968.3	865.5	628.8	528.4	533.2
87.5°	50.2	64.6	114.8	141.1	174.5	325.2	576.2	514.0	315.6	220.0	220.0
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)