

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: P885491

Luminaire Tested: **NAV-SB6D-750-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885491  
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-750-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

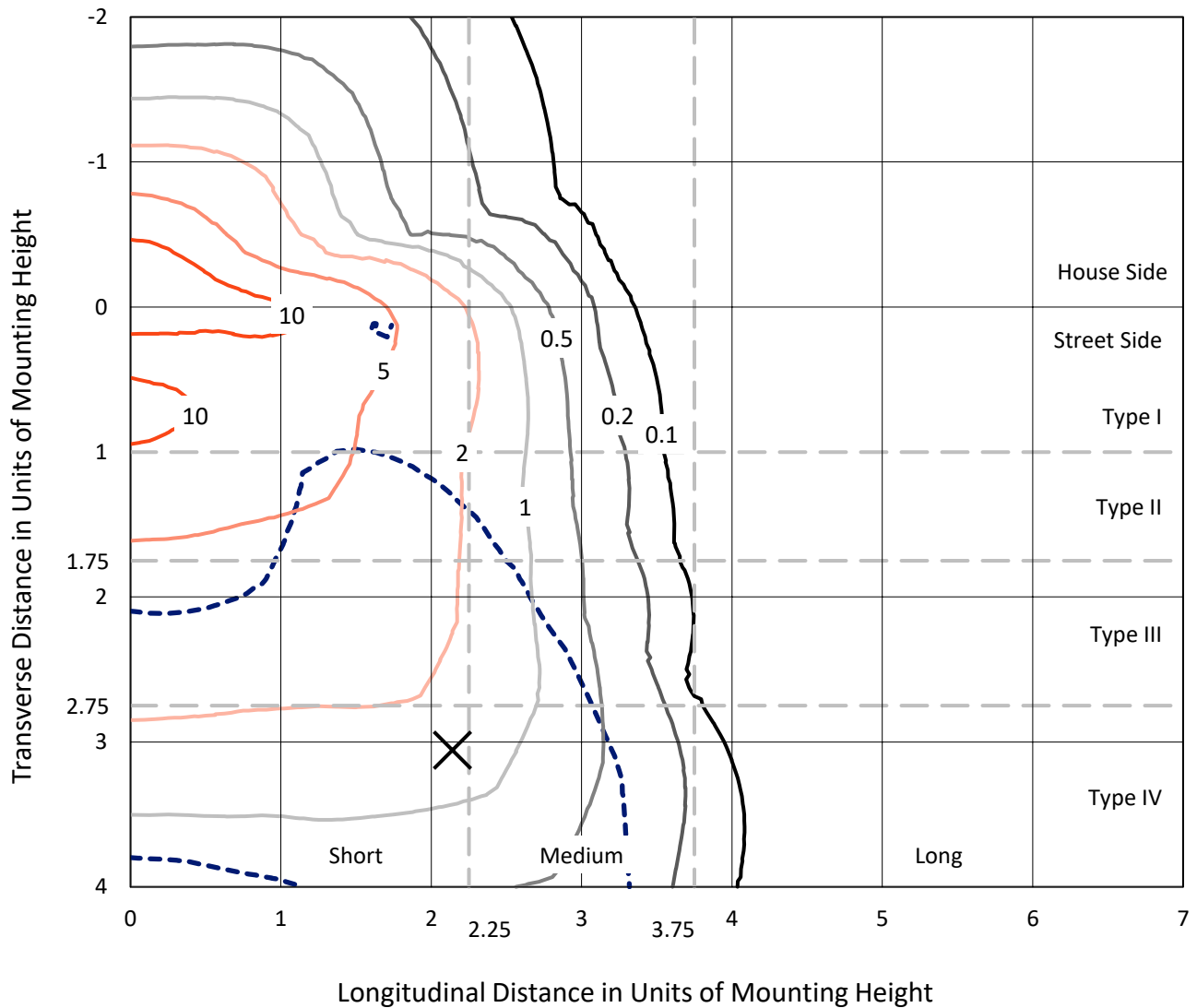
Lumens per Lamp: N/A  
Luminaire Lumens: 65816 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

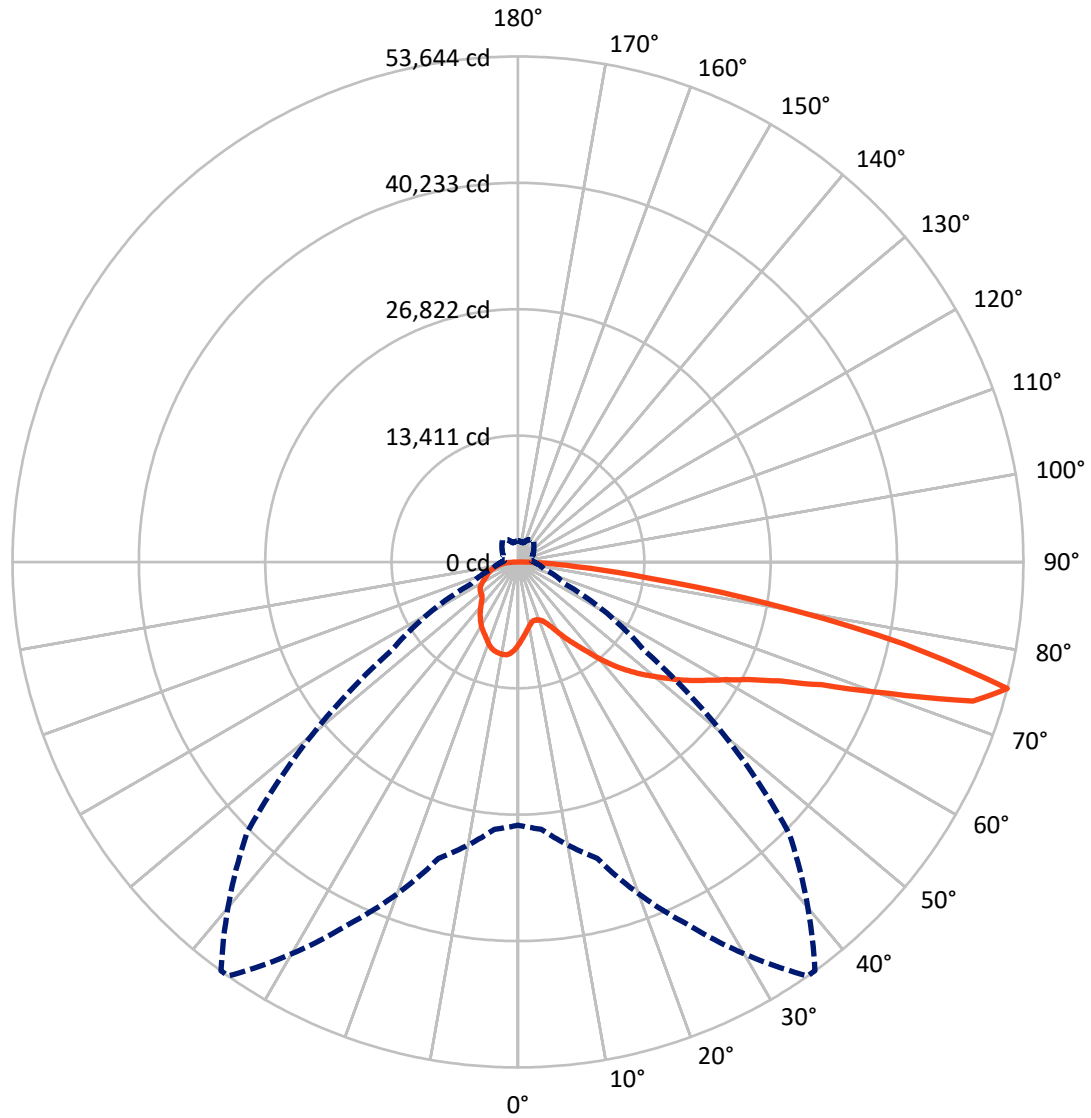
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	15662.6	0.0	15662.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	50153.4	0.0	50153.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	65816.0	0.0	65816.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	830.4	1.3
10°-20°	2395.2	3.6
20°-30°	4022.1	6.1
30°-40°	6251.0	9.5
40°-50°	9278.1	14.1
50°-60°	12809.0	19.5
60°-70°	15540.2	23.6
70°-80°	12842.8	19.5
80°-90°	1847.2	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°	65816.0	100.0
0°-180°	65816.0	100.0

**Coefficient of Utilization**



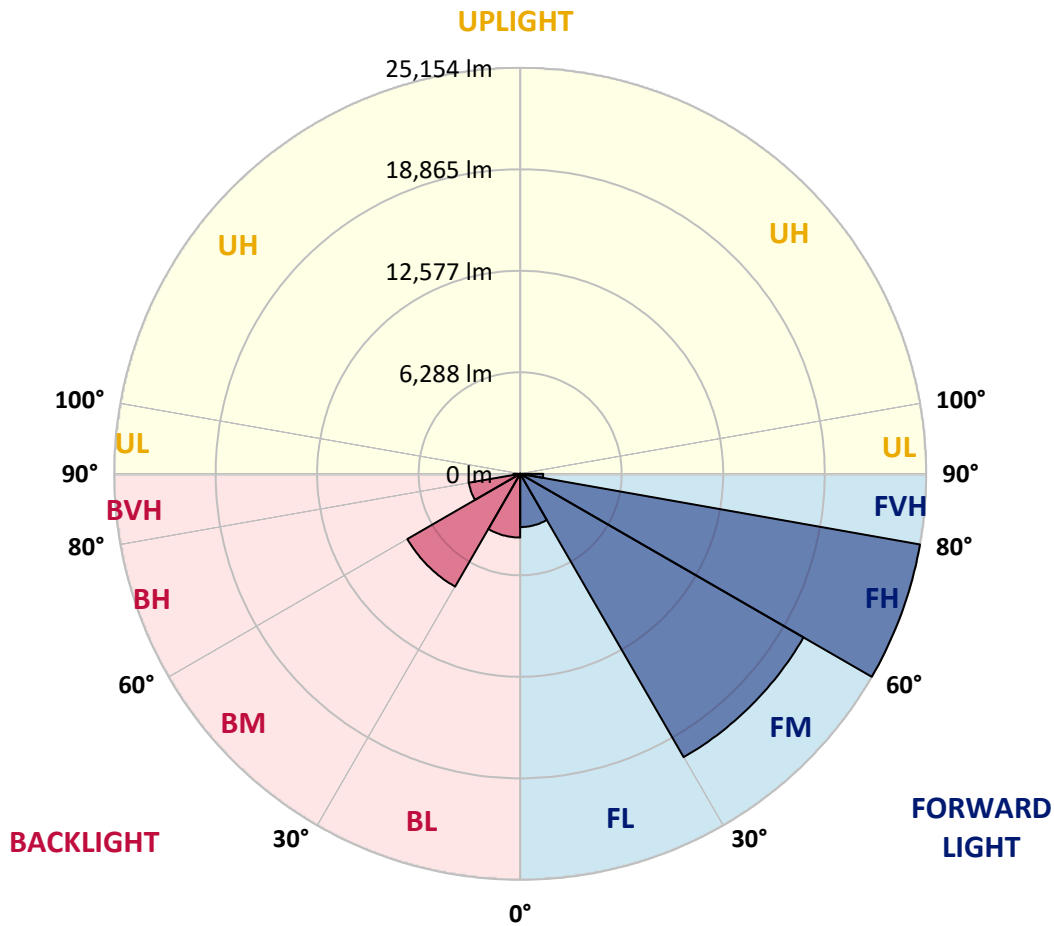
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3300.5	5.0			
FM (30°-60°)	20267.8	30.8			
FH (60°-80°)	25153.9	38.2			G5
FVH (80°-90°)	1431.2	2.2			G5
BL (0°-30°)	3947.2	6.0	B4/5000		
BM (30°-60°)	8070.3	12.3	B4/8500		
BH (60°-80°)	3229.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	415.9	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°	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4
2.5°	8087.3	8137.1	8158.5	8147.8	8201.2	8194.0	8268.8	8361.3	8489.3	8613.9	8795.3
5°	7464.6	7518.0	7564.3	7607.0	7710.1	7742.2	7859.6	8037.5	8272.3	8510.7	8809.6
7.5°	6884.7	6931.0	7002.1	7080.4	7254.7	7286.7	7482.4	7760.0	8087.3	8436.0	8848.7
10°	6411.5	6457.7	6532.5	6621.4	6838.4	6877.6	7126.6	7496.7	7923.6	8364.8	8891.4
12.5°	6208.7	6222.9	6265.6	6354.6	6543.1	6568.0	6842.0	7265.4	7763.5	8311.4	8955.4
15°	6198.0	6226.5	6230.0	6276.3	6432.8	6443.5	6696.1	7116.0	7663.9	8300.8	9051.5
17.5°	6304.7	6326.1	6294.1	6322.5	6454.2	6472.0	6671.2	7044.8	7631.9	8347.0	9215.2
20°	6589.4	6607.2	6511.1	6472.0	6568.0	6582.3	6778.0	7091.1	7663.9	8443.1	9439.3
22.5°	7194.2	7204.9	6970.1	6810.0	6817.1	6824.2	6995.0	7279.6	7788.4	8617.4	9724.0
25°	8137.1	8130.0	7756.4	7446.9	7269.0	7229.8	7343.7	7585.6	7998.3	8848.7	10090.4
27.5°	9240.1	9186.7	8813.1	8350.6	7962.8	7905.8	7880.9	7984.1	8297.2	9154.7	10538.7
30°	10485.4	10435.6	10033.5	9428.7	8891.4	8798.9	8564.1	8510.7	8742.0	9571.0	11161.4
32.5°	11851.6	11819.6	11339.3	10606.3	9887.6	9780.9	9386.0	9243.6	9425.1	10200.7	12029.5
35°	12997.3	12968.8	12570.4	11816.1	10937.2	10805.6	10403.5	10243.4	10335.9	11008.4	13164.5
37.5°	14032.7	14018.5	13676.9	13082.7	12175.4	12015.3	11563.4	11510.1	11492.3	12072.2	14541.5
40°	14993.3	14957.8	14602.0	14288.9	13616.4	13470.5	13072.0	13025.8	12890.6	13381.6	16099.9
42.5°	16057.2	15964.7	15448.8	15302.9	15121.4	15000.5	14762.1	14769.2	14470.3	14858.1	17750.8
45°	16925.3	16872.0	16341.8	16256.4	16452.1	16402.3	16608.7	16662.0	16082.1	16405.9	19465.7
47.5°	17857.5	17807.7	17359.4	17298.9	17829.1	17843.3	18572.7	18590.5	17654.7	18014.1	21184.2
50°	19006.7	18935.6	18490.8	18565.6	19159.7	19213.1	20547.3	20426.4	19102.8	19647.2	22888.5
52.5°	19764.6	19807.3	19711.2	19832.2	20643.4	20693.2	22490.0	22180.5	20536.7	21258.9	24560.8
55°	20323.2	20408.6	20707.5	20985.0	22208.9	22258.7	24322.4	23849.2	21725.0	22753.3	26133.4
57.5°	21041.9	20920.9	21479.5	22020.4	23696.2	23827.8	26104.9	25457.4	22778.2	24041.3	27211.5
60°	22073.7	21988.3	22422.4	23223.0	25361.3	25571.2	27990.6	26905.5	23550.3	25062.4	27421.4
62.5°	24165.8	23952.3	24019.9	24728.0	27460.5	27738.0	30118.3	28168.5	23934.5	25460.9	26297.0
65°	27293.3	26926.8	26585.2	27076.2	30417.2	30691.2	32520.0	29161.2	23792.2	24688.8	23311.9
67.5°	31232.0	30869.1	30449.2	30911.8	34772.2	34989.2	35483.8	29719.8	22671.5	21714.4	18035.4
70°	34480.4	34345.2	34846.9	36750.4	41728.0	41735.1	39283.7	29257.3	19600.9	15395.4	10435.6
72.5°	34049.9	33968.1	36611.6	42496.5	50494.9	50306.3	42880.8	25756.2	13203.7	6945.2	3910.2
75°	27933.7	28463.9	32559.1	42393.4	53643.7	53618.8	40678.4	16373.8	5461.5	2878.4	2020.9
77.5°	14979.1	15818.8	21138.0	31299.6	41877.5	42507.2	28599.1	5728.4	2344.7	1843.0	1398.3
80°	4885.1	5618.1	8425.3	15936.2	27211.5	27094.0	12257.3	2248.6	1604.7	1305.8	967.8
82.5°	2074.3	2159.7	3764.3	7525.1	13965.1	13748.0	3903.1	1291.5	1127.9	893.1	597.7
85°	811.2	907.3	1661.6	3479.7	6048.6	5916.9	1409.0	640.4	722.3	583.5	355.8
87.5°	266.8	323.8	594.2	1191.9	1882.2	1814.6	345.1	220.6	313.1	266.8	128.1
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°	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4	8770.4
2.5°	8845.1	8902.1	8969.7	9069.3	9154.7	9225.8	9300.6	9346.8	9364.6	9418.0	9414.4
5°	8909.2	9033.7	9200.9	9364.6	9524.7	9620.8	9706.2	9748.9	9788.0	9816.5	9823.6
7.5°	9015.9	9176.0	9439.3	9652.8	9788.0	9866.3	9923.2	9909.0	9923.2	9930.3	9941.0
10°	9108.4	9332.6	9645.7	9848.5	9951.7	9955.2	9941.0	9891.2	9866.3	9869.8	9877.0
12.5°	9218.7	9467.8	9805.8	9976.6	10005.0	9926.8	9866.3	9780.9	9748.9	9734.6	9727.5
15°	9368.2	9652.8	9980.1	10044.2	9973.0	9873.4	9770.2	9631.5	9560.3	9503.4	9521.2
17.5°	9549.6	9862.7	10115.3	10069.1	9916.1	9752.4	9585.2	9375.3	9229.4	9168.9	9172.5
20°	9802.2	10083.3	10218.5	10015.7	9784.5	9535.4	9250.8	8994.6	8859.4	8798.9	8791.8
22.5°	10108.2	10378.6	10318.1	9923.2	9595.9	9197.4	8841.6	8653.0	8585.4	8542.7	8549.8
25°	10474.7	10706.0	10389.3	9788.0	9286.3	8749.1	8475.1	8414.6	8382.6	8350.6	8350.6
27.5°	10951.5	11076.0	10442.7	9588.8	8802.4	8272.3	8172.7	8183.4	8172.7	8119.3	8130.0
30°	11581.2	11556.3	10492.5	9265.0	8247.4	7841.8	7848.9	7895.2	7902.3	7866.7	7884.5
32.5°	12410.2	12157.6	10517.4	8845.1	7717.3	7464.6	7471.8	7521.6	7557.2	7496.7	7525.1
35°	13413.6	12858.5	10478.3	8318.6	7308.1	7105.3	7051.9	7066.2	7076.8	7019.9	7059.0
37.5°	14584.2	13644.9	10303.9	7735.1	6970.1	6753.1	6639.2	6543.1	6486.2	6432.8	6468.4
40°	15868.6	14502.3	9983.7	7165.8	6592.9	6379.5	6208.7	6027.2	5835.1	5763.9	5796.0
42.5°	17213.5	15384.7	9595.9	6621.4	6158.9	5984.5	5803.1	5539.8	5251.6	5105.7	5123.5
45°	18608.2	16288.4	9215.2	6084.2	5714.1	5639.4	5429.5	5112.8	4799.7	4614.7	4600.5
47.5°	19974.5	17142.4	8656.6	5543.3	5297.8	5379.7	5216.0	4924.2	4575.6	4283.8	4251.8
50°	21280.3	17942.9	7742.2	4995.4	4959.8	5301.4	5144.8	4725.0	4326.5	3952.9	3920.9
52.5°	22575.4	18590.5	6571.6	4497.3	4778.4	5280.0	5052.3	4589.8	4102.4	3711.0	3668.3
55°	23674.8	18924.9	5443.7	4070.3	4515.1	5098.6	4942.0	4429.7	3785.7	3369.4	3333.8
57.5°	24301.0	18654.5	4504.4	3650.5	4152.2	4799.7	4753.5	4088.1	3408.5	3088.3	3045.6
60°	24030.6	17558.6	3735.9	3284.0	3807.0	4475.9	4426.1	3750.1	3120.4	2817.9	2775.2
62.5°	22539.8	15470.1	3127.5	2963.8	3493.9	4145.0	4098.8	3490.4	2899.8	2608.0	2561.7
65°	19536.9	12584.6	2654.3	2697.0	3177.3	3746.6	3814.2	3273.3	2725.4	2440.8	2394.5
67.5°	14900.8	9115.6	2284.2	2465.7	2867.7	3355.2	3550.9	3116.8	2579.5	2309.1	2266.4
70°	8492.9	5176.9	1971.1	2241.5	2593.8	2992.3	3348.1	2992.3	2423.0	2198.8	2170.4
72.5°	3220.0	2376.7	1704.3	2017.4	2330.5	2686.3	3123.9	2796.6	2241.5	2074.3	2045.8
75°	1718.5	1448.1	1433.9	1754.1	2028.1	2387.4	2842.8	2604.4	2106.3	2191.7	2262.9
77.5°	1170.6	1024.7	1199.0	1501.5	1697.2	2056.5	2544.0	2312.7	1825.2	1818.1	1675.8
80°	811.2	725.8	974.9	1209.7	1312.9	1729.2	2220.2	1985.4	1487.2	1387.6	1327.1
82.5°	487.4	473.2	729.4	903.7	928.6	1334.2	1839.5	1665.1	1216.8	1060.3	1067.4
85°	266.8	281.1	466.1	530.1	540.8	932.2	1441.0	1288.0	935.7	786.3	793.4
87.5°	74.7	96.1	170.8	209.9	259.7	483.9	857.5	765.0	469.7	327.3	327.3
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)