

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: P885297

Luminaire Tested: **NAV-SB6C-735-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-735-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45040 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

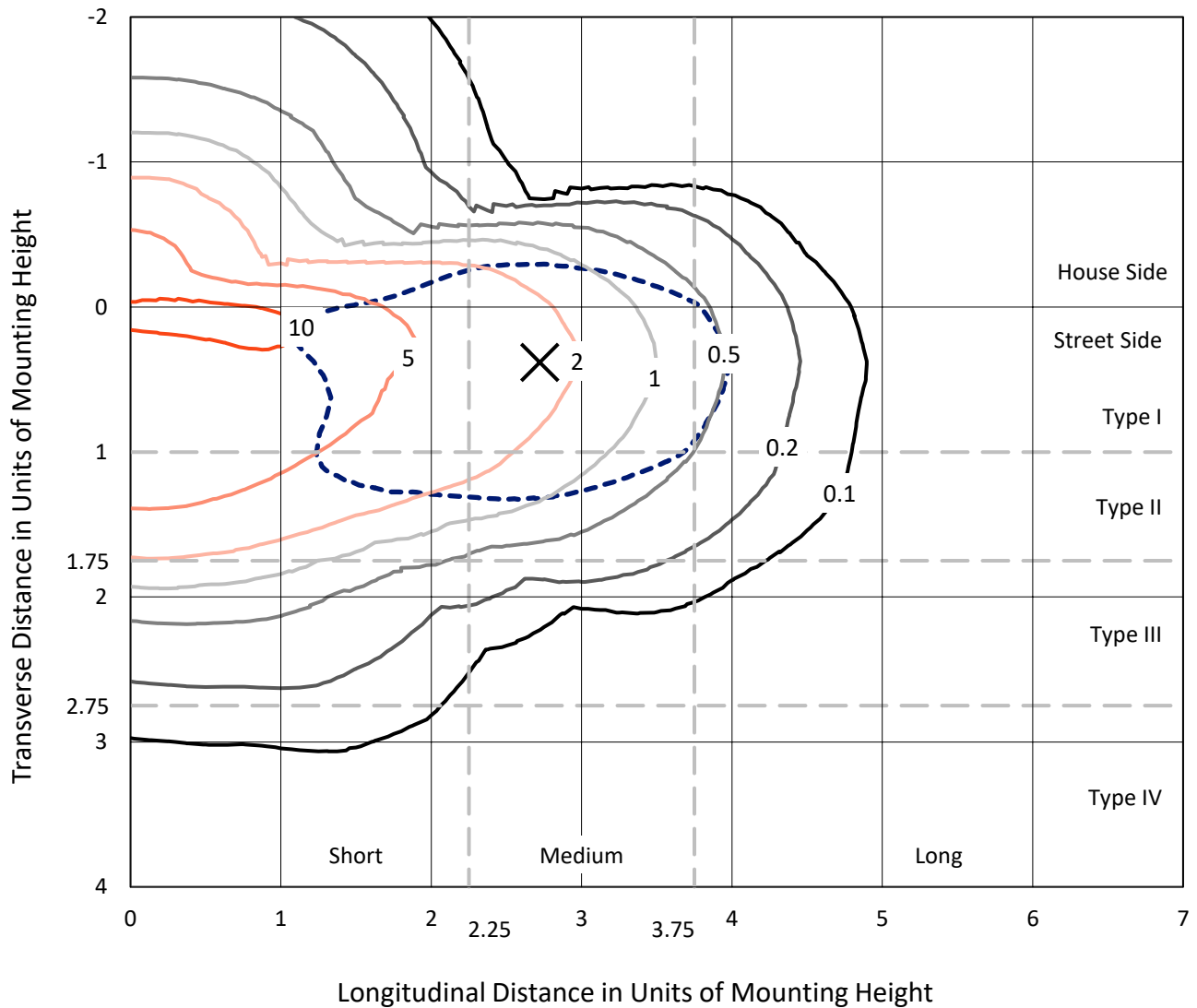
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

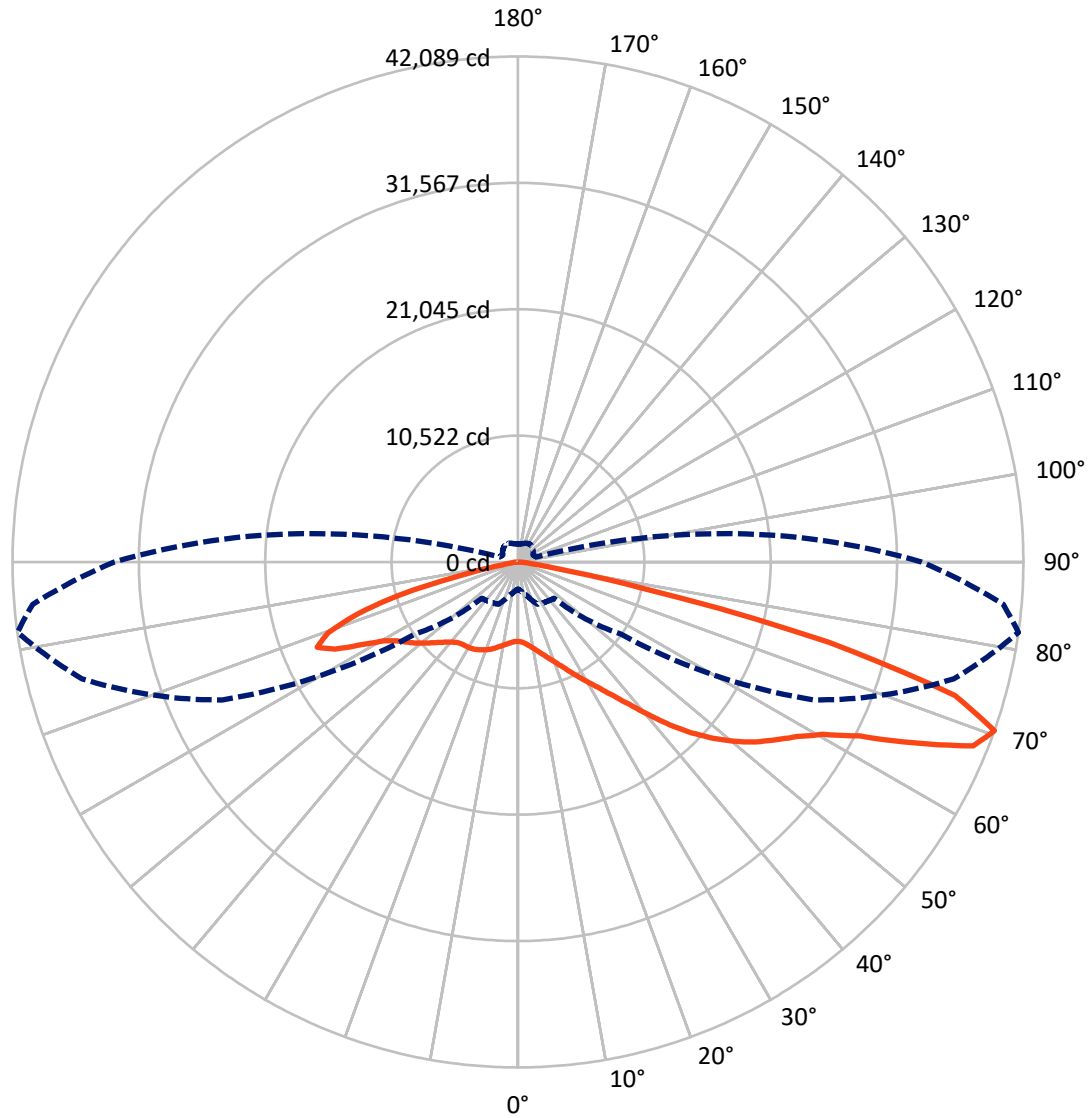
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11103.5	0.0	11103.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	33936.5	0.0	33936.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	45040.0	0.0	45040.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.5	1.4
10°-20°	1791.3	4.0
20°-30°	2996.7	6.7
30°-40°	4681.6	10.4
40°-50°	7455.9	16.6
50°-60°	10375.8	23.0
60°-70°	10853.6	24.1
70°-80°	5672.7	12.6
80°-90°	589.0	1.3
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°	45040.0	100.0
0°-180°	45040.0	100.0

**Coefficient of Utilization**

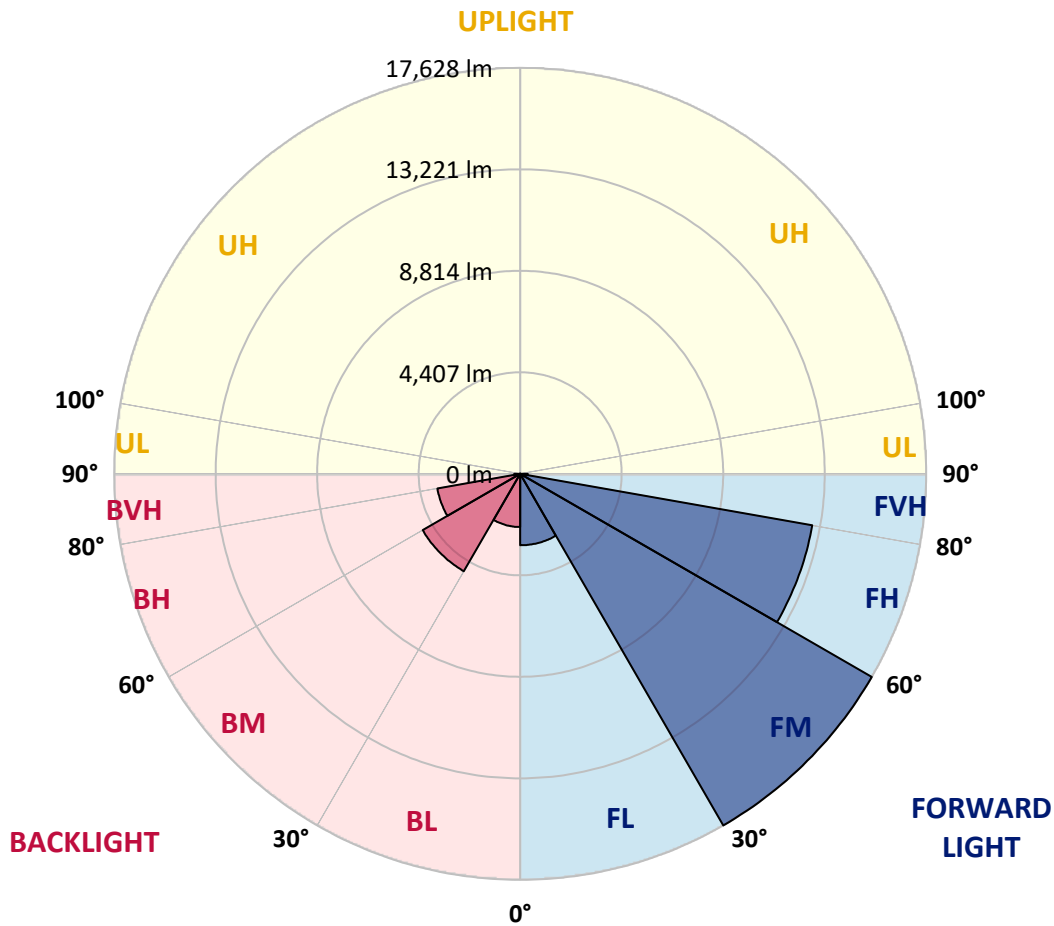


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3101.5	6.9			
FM (30°-60°)	17628.2	39.1			
FH (60°-80°)	12877.1	28.6			G5
FVH (80°-90°)	329.7	0.7			G3/500
BL (0°-30°)	2309.9	5.1	B3/2500		
BM (30°-60°)	4885.1	10.8	B3/5000		
BH (60°-80°)	3649.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	259.3	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4
2.5°	6761.2	6799.4	6787.5	6775.5	6775.5	6758.8	6756.4	6732.5	6713.4	6682.3	6675.1
5°	6847.2	6887.8	6883.1	6892.6	6923.7	6930.9	6938.0	6923.7	6885.4	6847.2	6830.5
7.5°	6770.7	6816.1	6830.5	6887.8	6983.4	7069.5	7134.0	7160.3	7124.4	7069.5	7043.2
10°	6512.6	6562.8	6613.0	6749.2	6918.9	7122.0	7294.1	7396.9	7389.7	7337.1	7291.7
12.5°	5989.2	6041.8	6149.3	6414.6	6725.3	7083.8	7404.1	7619.2	7693.2	7655.0	7576.1
15°	5571.0	5616.4	5697.6	5970.1	6374.0	6918.9	7444.7	7862.9	8051.7	8030.2	7934.6
17.5°	5559.0	5578.1	5628.3	5757.4	6068.1	6660.8	7401.7	8101.9	8462.8	8460.4	8340.9
20°	5769.3	5776.5	5805.2	5831.5	6008.3	6464.8	7291.7	8300.3	8924.1	8924.1	8795.0
22.5°	6060.9	6056.1	6084.8	6060.9	6146.9	6448.1	7222.4	8474.8	9437.9	9476.1	9313.6
25°	6498.3	6474.4	6467.2	6412.2	6429.0	6603.4	7298.9	8673.1	10047.3	10126.2	9923.1
27.5°	7081.4	7043.2	7016.9	6890.2	6847.2	6923.7	7533.1	8912.1	10726.1	10862.3	10604.2
30°	7841.4	7772.1	7733.9	7514.0	7358.7	7370.6	7886.8	9230.0	11435.9	11655.8	11328.4
32.5°	8878.7	8771.1	8668.3	8307.5	8023.1	7929.8	8343.3	9669.7	12205.5	12556.8	12136.2
35°	10040.2	9954.1	9844.2	9287.3	8850.0	8634.9	8959.9	10283.9	13106.5	13663.3	13116.0
37.5°	11158.7	11084.6	11137.2	10386.7	9822.7	9509.6	9767.7	11108.5	14217.8	15039.9	14344.5
40°	12315.4	12258.0	12265.2	11548.2	10891.0	10539.7	10747.6	12143.3	15491.6	16677.1	15821.5
42.5°	13572.5	13529.5	13386.1	12750.4	12011.9	11684.5	11875.7	13338.3	16858.7	18541.2	17441.8
45°	14980.2	14953.9	14820.1	14091.1	13245.1	12877.0	13135.2	14657.6	18232.9	20295.4	19069.4
47.5°	16196.7	16218.2	16201.5	15587.2	14710.1	14170.0	14478.3	16034.2	19511.5	21944.5	20630.0
50°	16782.2	16894.5	17059.5	16868.3	16323.3	15773.7	15833.4	17363.0	20730.4	23490.8	22126.1
52.5°	16476.3	16689.0	17138.3	17444.2	17654.5	17539.8	17379.7	18682.2	21877.6	24886.5	23541.0
55°	15336.3	15635.0	16380.7	17119.2	18192.3	19026.4	19236.7	20144.9	22996.1	26115.0	24879.4
57.5°	13259.4	13744.6	14413.8	15907.5	17714.3	19745.8	21402.0	22173.9	24181.5	27427.0	26279.9
60°	9698.4	10348.5	11180.2	13402.8	16041.3	19361.0	23244.6	25290.4	25866.4	29126.3	28103.4
62.5°	6206.7	6608.2	7373.0	9466.6	12499.4	17389.3	23808.7	29186.0	28722.4	31913.0	30837.5
65°	4249.3	4507.4	5207.7	6383.6	8080.4	12944.0	22298.2	32106.6	33258.5	36329.6	35512.2
67.5°	3087.8	3283.8	3881.3	4911.3	5265.1	7659.8	17303.2	31972.7	37668.0	40880.1	39608.6
70°	2251.3	2389.9	2891.8	3881.3	4051.0	4261.3	10482.3	27178.5	37572.4	42089.4	40567.0
72.5°	1668.2	1763.8	2100.8	3011.3	3279.0	2877.5	5188.6	19752.9	32285.8	38069.5	36848.2
75°	1206.9	1278.6	1527.2	2303.9	2624.2	2191.6	2588.3	11543.5	22520.5	26779.4	26994.5
77.5°	922.5	977.5	1140.0	1687.3	2100.8	1644.3	1606.0	5310.5	10678.3	10730.9	11333.1
80°	740.9	776.7	865.2	1187.8	1610.8	1230.8	1046.8	2143.8	3374.6	2856.0	2997.0
82.5°	544.9	604.7	731.3	834.1	1152.0	848.4	638.1	1082.6	1283.4	1104.2	1113.7
85°	310.7	351.3	442.1	597.5	736.1	518.6	365.7	480.4	597.5	489.9	437.4
87.5°	109.9	143.4	155.3	234.2	320.3	215.1	141.0	138.6	196.0	145.8	121.9
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°	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4	6603.4
2.5°	6651.2	6639.3	6591.5	6526.9	6460.0	6395.5	6374.0	6328.6	6297.5	6280.8	6299.9
5°	6785.1	6746.8	6634.5	6491.1	6340.5	6178.0	6063.3	5958.1	5881.7	5810.0	5838.6
7.5°	6976.3	6909.3	6715.8	6464.8	6197.1	5927.1	5726.3	5573.4	5470.6	5403.7	5418.0
10°	7198.5	7095.8	6799.4	6424.2	6010.7	5623.5	5386.9	5255.5	5191.0	5155.1	5164.7
12.5°	7454.2	7308.5	6885.4	6331.0	5726.3	5284.2	5121.7	5083.4	5085.8	5088.2	5093.0
15°	7769.7	7566.6	6954.7	6127.8	5355.9	5023.7	4995.0	5057.1	5121.7	5152.7	5150.3
17.5°	8125.8	7839.0	6966.7	5793.2	4992.6	4856.4	4947.2	5081.0	5179.0	5222.0	5231.6
20°	8508.2	8116.3	6880.7	5320.0	4693.9	4720.1	4882.7	5054.7	5162.3	5217.3	5231.6
22.5°	8945.6	8412.6	6675.1	4822.9	4450.1	4572.0	4763.2	4930.5	5042.8	5097.8	5112.1
25°	9445.1	8744.8	6352.5	4404.7	4239.8	4404.7	4595.9	4734.5	4825.3	4875.5	4889.8
27.5°	9999.5	9091.4	5922.3	4072.5	4055.7	4232.6	4390.3	4497.9	4545.7	4583.9	4598.3
30°	10556.4	9406.8	5401.3	3821.5	3895.6	4062.9	4175.2	4223.0	4237.4	4244.5	4261.3
32.5°	11158.7	9679.3	4854.0	3613.6	3742.7	3898.0	3964.9	3986.4	3919.5	3874.1	3888.4
35°	11887.6	9970.9	4318.6	3448.7	3592.1	3725.9	3747.4	3728.3	3649.5	3556.2	3561.0
37.5°	12788.6	10334.1	3890.8	3331.6	3451.1	3539.5	3513.2	3508.4	3515.6	3405.7	3412.8
40°	13892.8	10807.3	3577.8	3240.8	3336.4	3355.5	3281.4	3322.0	3357.9	3190.6	3195.4
42.5°	15118.8	11378.5	3379.4	3178.6	3240.8	3195.4	3080.6	3126.1	3121.3	2901.4	2899.0
45°	16368.8	11999.9	3310.1	3133.2	3152.3	3061.5	2934.9	2946.8	2846.4	2648.1	2655.2
47.5°	17611.5	12666.7	3353.1	3095.0	3042.4	2939.6	2841.6	2789.1	2640.9	2492.7	2492.7
50°	18830.4	13367.0	3510.8	3018.5	2891.8	2832.1	2760.4	2667.2	2509.4	2382.8	2373.2
52.5°	19960.8	14072.0	3687.7	2891.8	2703.0	2738.9	2693.5	2585.9	2430.6	2301.5	2303.9
55°	21031.5	14777.1	3757.0	2717.4	2526.2	2657.6	2631.3	2433.0	2246.6	2141.4	2131.8
57.5°	22197.8	15625.5	3680.5	2495.1	2382.8	2564.4	2464.0	2244.2	2136.6	2057.7	2050.6
60°	23813.4	16956.7	3515.6	2220.3	2246.6	2425.8	2253.7	2162.9	2045.8	1957.4	1952.6
62.5°	26497.4	19439.8	3250.3	1947.8	2086.4	2220.3	2153.3	2062.5	1943.0	1857.0	1857.0
65°	30464.7	22890.9	2750.8	1735.1	1907.2	2019.5	2045.8	1955.0	1830.7	1739.9	1744.7
67.5°	33810.6	25056.2	2081.6	1558.2	1723.2	1857.0	1931.1	1842.7	1711.2	1622.8	1625.2
70°	33626.6	23483.6	1589.3	1383.8	1560.6	1696.9	1792.5	1723.2	1582.1	1498.5	1505.7
72.5°	29867.2	19645.4	1285.8	1206.9	1395.7	1529.6	1644.3	1591.7	1448.3	1367.1	1367.1
75°	21942.1	13945.3	1027.7	1027.7	1190.2	1355.1	1481.8	1448.3	1316.9	1259.5	1242.8
77.5°	9249.1	5850.6	805.4	853.2	989.4	1163.9	1321.6	1333.6	1218.9	1290.6	1171.1
80°	2459.3	1613.2	614.2	671.6	776.7	960.8	1149.6	1144.8	1020.5	953.6	886.7
82.5°	936.9	635.7	437.4	473.2	561.6	736.1	910.6	939.2	815.0	705.0	705.0
85°	360.9	272.5	270.1	284.4	327.4	487.5	688.3	712.2	614.2	521.0	537.7
87.5°	93.2	81.3	100.4	95.6	150.6	260.5	394.3	408.7	375.2	217.5	310.7
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)