

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: P884607

Luminaire Tested: **NAV-SB5C-730-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884607  
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-SB5C-730-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

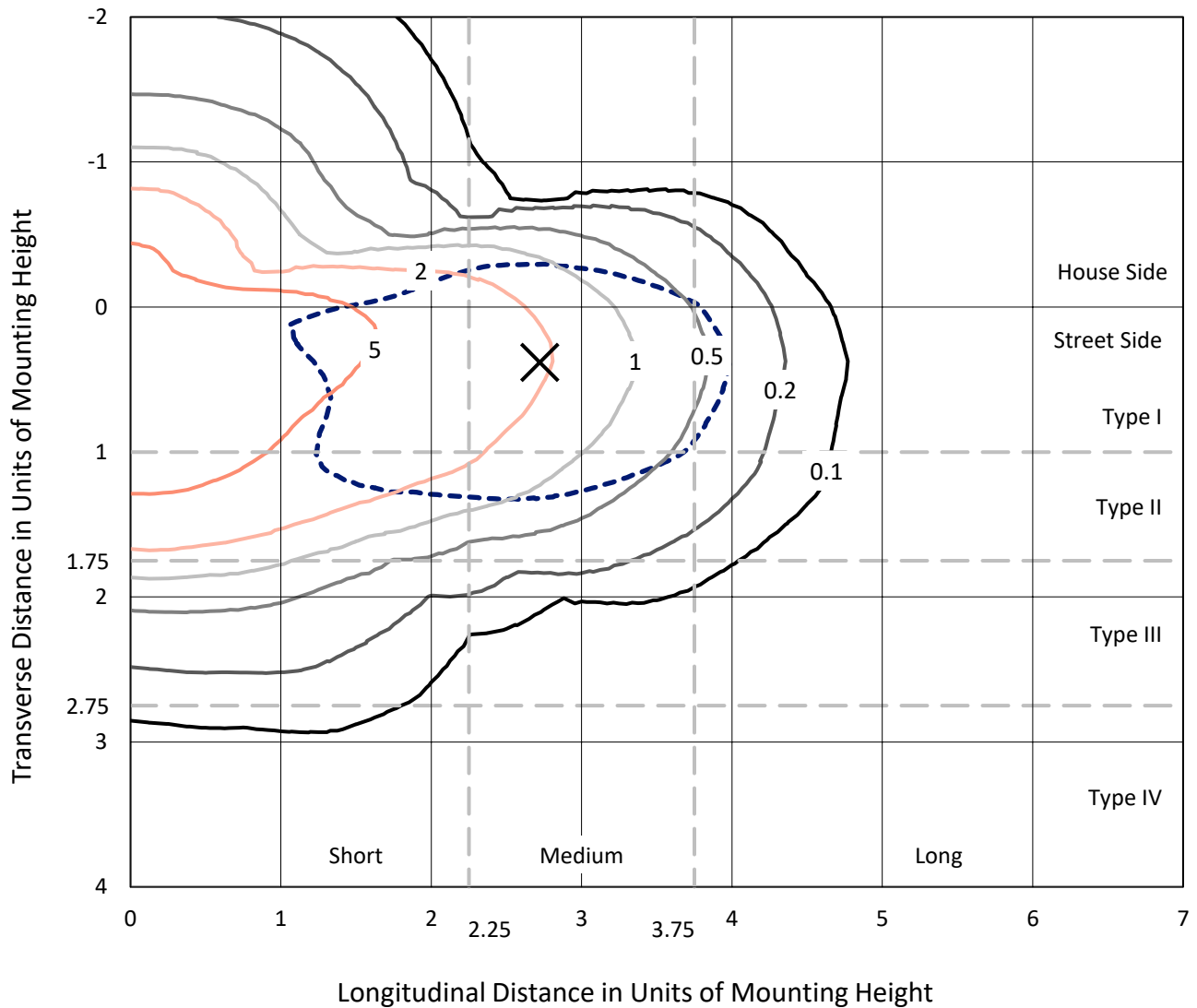
Lumens per Lamp: N/A  
Luminaire Lumens: 37066 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

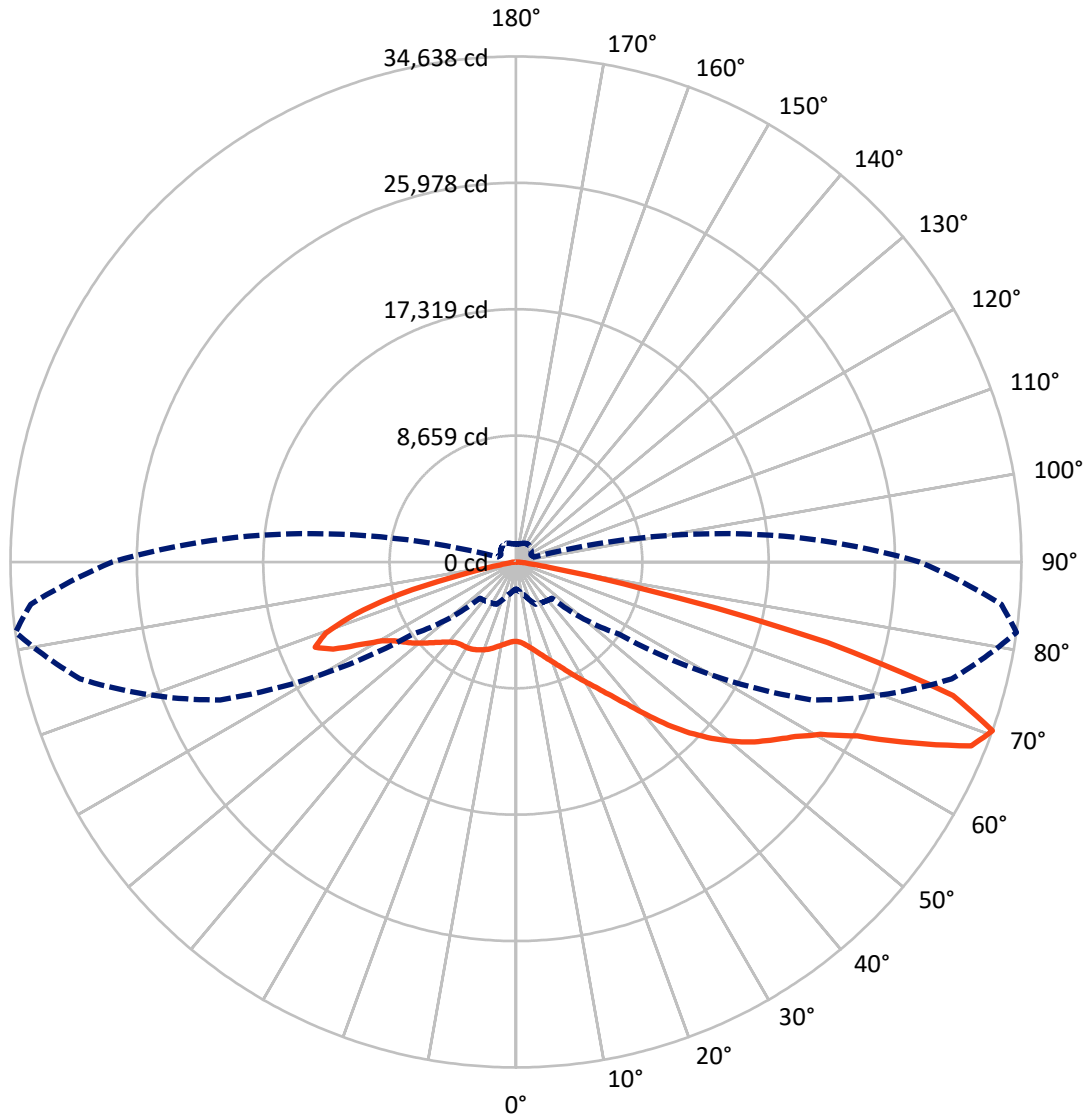
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	9137.7	0.0	9137.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	27928.3	0.0	27928.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	37066.0	0.0	37066.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.1	1.4
10°-20°	1474.2	4.0
20°-30°	2466.1	6.7
30°-40°	3852.7	10.4
40°-50°	6135.9	16.6
50°-60°	8538.9	23.0
60°-70°	8932.0	24.1
70°-80°	4668.4	12.6
80°-90°	484.8	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°	37066.0	100.0
0°-180°	37066.0	100.0

**Coefficient of Utilization**

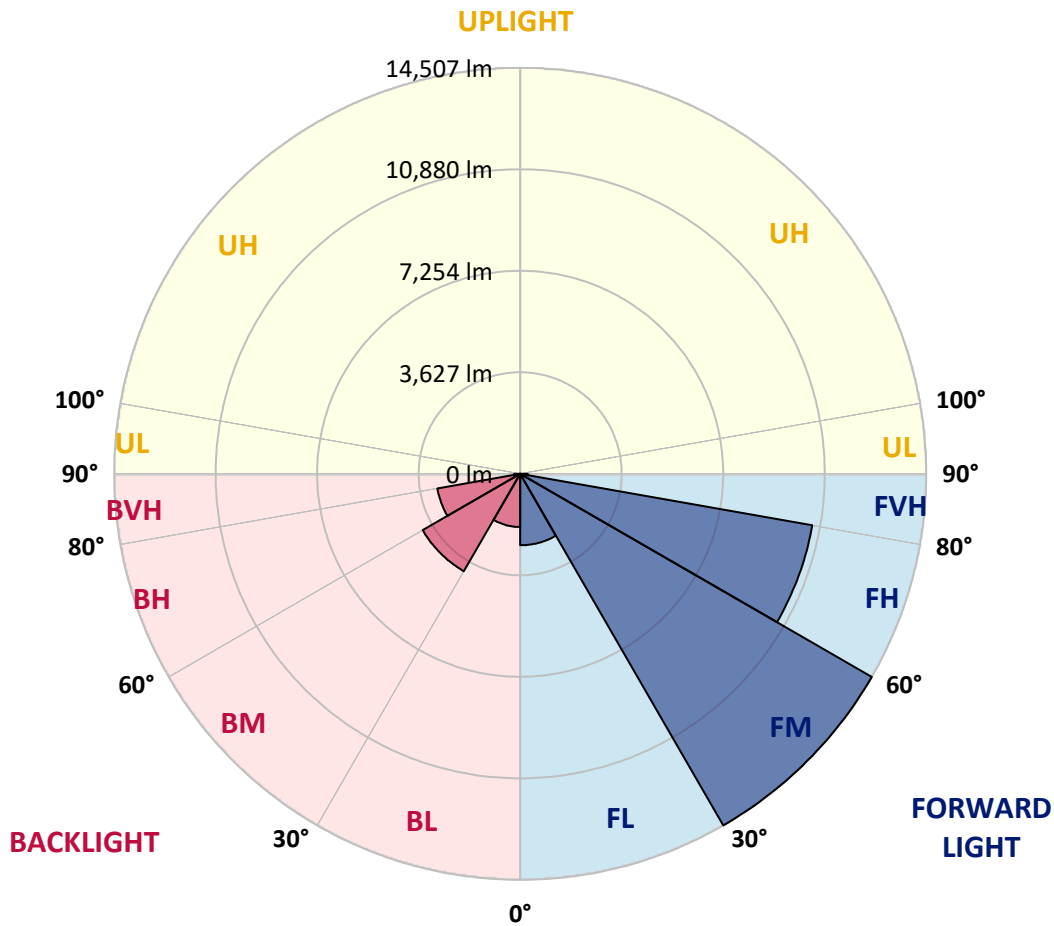


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2552.4	6.9			
FM (30°-60°)	14507.3	39.1			
FH (60°-80°)	10597.3	28.6			G4/12000
FVH (80°-90°)	271.4	0.7			G3/500
BL (0°-30°)	1901.0	5.1	B3/2500		
BM (30°-60°)	4020.2	10.8	B3/5000		
BH (60°-80°)	3003.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	213.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3
2.5°	5564.1	5595.6	5585.8	5576.0	5576.0	5562.2	5560.2	5540.5	5524.8	5499.2	5493.3
5°	5635.0	5668.4	5664.5	5672.3	5697.9	5703.8	5709.7	5697.9	5666.4	5635.0	5621.2
7.5°	5572.0	5609.4	5621.2	5668.4	5747.1	5817.9	5871.0	5892.6	5863.1	5817.9	5796.2
10°	5359.6	5400.9	5442.2	5554.3	5694.0	5861.1	6002.8	6087.3	6081.4	6038.2	6000.8
12.5°	4928.9	4972.1	5060.6	5279.0	5534.6	5829.7	6093.2	6270.2	6331.2	6299.7	6234.8
15°	4584.7	4622.0	4688.9	4913.1	5245.5	5694.0	6126.7	6470.9	6626.2	6608.5	6529.9
17.5°	4574.8	4590.6	4631.9	4738.1	4993.8	5481.5	6091.3	6667.5	6964.5	6962.6	6864.2
20°	4747.9	4753.8	4777.4	4799.1	4944.6	5320.3	6000.8	6830.8	7344.1	7344.1	7237.9
22.5°	4987.9	4983.9	5007.5	4987.9	5058.7	5306.5	5943.7	6974.4	7767.0	7798.5	7664.7
25°	5347.8	5328.1	5322.2	5277.0	5290.8	5434.3	6006.7	7137.6	8268.5	8333.4	8166.3
27.5°	5827.7	5796.2	5774.6	5670.4	5635.0	5697.9	6199.4	7334.3	8827.1	8939.2	8726.8
30°	6453.2	6396.1	6364.6	6183.7	6055.9	6065.7	6490.5	7595.9	9411.3	9592.2	9322.8
32.5°	7306.8	7218.2	7133.7	6836.7	6602.6	6525.9	6866.2	7957.8	10044.6	10333.7	9987.5
35°	8262.6	8191.8	8101.4	7643.1	7283.2	7106.1	7373.6	8463.3	10786.1	11244.3	10793.9
37.5°	9183.1	9122.1	9165.4	8547.8	8083.7	7826.0	8038.4	9141.8	11700.6	12377.2	11804.9
40°	10135.1	10087.8	10093.7	9503.7	8962.8	8673.7	8844.8	9993.4	12749.0	13724.5	13020.4
42.5°	11169.6	11134.2	11016.2	10493.0	9885.3	9615.8	9773.2	10976.9	13874.0	15258.6	14353.9
45°	12328.1	12306.4	12196.3	11596.4	10900.1	10597.3	10809.7	12062.5	15004.9	16702.3	15693.3
47.5°	13329.2	13346.9	13333.1	12827.6	12105.8	11661.3	11915.0	13195.4	16057.2	18059.4	16977.6
50°	13811.0	13903.5	14039.2	13881.9	13433.4	12981.0	13030.2	14289.0	17060.2	19331.9	18208.9
52.5°	13559.3	13734.3	14104.1	14355.9	14528.9	14434.5	14302.8	15374.7	18004.3	20480.6	19373.2
55°	12621.1	12867.0	13480.6	14088.4	14971.5	15657.9	15831.0	16578.4	18924.8	21491.5	20474.7
57.5°	10911.9	11311.2	11861.9	13091.2	14578.1	16249.9	17612.9	18248.2	19900.3	22571.3	21627.2
60°	7981.4	8516.4	9200.8	11030.0	13201.3	15933.3	19129.3	20812.9	21287.0	23969.7	23127.9
62.5°	5107.8	5438.3	6067.7	7790.6	10286.5	14310.6	19593.5	24018.9	23637.3	26263.0	25378.0
65°	3497.0	3709.4	4285.7	5253.4	6649.8	10652.3	18350.5	26422.3	27370.3	29897.7	29225.1
67.5°	2541.1	2702.4	3194.1	4041.8	4332.9	6303.7	14239.8	26312.2	30999.1	33642.6	32596.2
70°	1852.7	1966.8	2379.9	3194.1	3333.8	3506.9	8626.5	22366.7	30920.5	34637.8	33384.9
72.5°	1372.8	1451.5	1728.8	2478.2	2698.5	2368.1	4270.0	16255.8	26569.8	31329.6	30324.5
75°	993.2	1052.3	1256.8	1896.0	2159.6	1803.6	2130.1	9499.8	18533.4	22038.3	22215.3
77.5°	759.2	804.4	938.2	1388.6	1728.8	1353.2	1321.7	4370.3	8787.8	8831.0	9326.7
80°	609.7	639.2	712.0	977.5	1325.6	1012.9	861.5	1764.2	2777.2	2350.4	2466.4
82.5°	448.4	497.6	601.8	686.4	948.0	698.2	525.1	891.0	1056.2	908.7	916.5
85°	255.7	289.1	363.9	491.7	605.8	426.8	300.9	395.3	491.7	403.2	359.9
87.5°	90.5	118.0	127.8	192.7	263.6	177.0	116.0	114.1	161.3	120.0	100.3
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°	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3	5434.3
2.5°	5473.7	5463.8	5424.5	5371.4	5316.3	5263.2	5245.5	5208.2	5182.6	5168.8	5184.6
5°	5583.8	5552.3	5459.9	5341.9	5218.0	5084.2	4989.8	4903.3	4840.4	4781.4	4805.0
7.5°	5741.2	5686.1	5526.8	5320.3	5100.0	4877.7	4712.5	4586.6	4502.1	4447.0	4458.8
10°	5924.1	5839.5	5595.6	5286.8	4946.6	4627.9	4433.2	4325.0	4271.9	4242.4	4250.3
12.5°	6134.5	6014.6	5666.4	5210.1	4712.5	4348.7	4214.9	4183.4	4185.4	4187.4	4191.3
15°	6394.1	6227.0	5723.5	5042.9	4407.7	4134.3	4110.7	4161.8	4214.9	4240.5	4238.5
17.5°	6687.2	6451.2	5733.3	4767.6	4108.7	3996.6	4071.3	4181.5	4262.1	4297.5	4305.4
20°	7001.9	6679.3	5662.5	4378.2	3862.8	3884.5	4018.2	4159.8	4248.3	4293.6	4305.4
22.5°	7361.8	6923.2	5493.3	3969.1	3662.2	3762.5	3919.9	4057.6	4150.0	4195.2	4207.0
25°	7772.9	7196.6	5227.8	3624.9	3489.1	3624.9	3782.2	3896.3	3971.0	4012.3	4024.1
27.5°	8229.2	7481.8	4873.8	3351.5	3337.7	3483.2	3613.1	3701.6	3740.9	3772.4	3784.2
30°	8687.5	7741.4	4445.0	3145.0	3205.9	3343.6	3436.0	3475.4	3487.2	3493.1	3506.9
32.5°	9183.1	7965.6	3994.6	2973.8	3080.0	3207.9	3263.0	3280.7	3225.6	3188.2	3200.0
35°	9783.0	8205.6	3554.1	2838.1	2956.1	3066.3	3084.0	3068.2	3003.3	2926.6	2930.6
37.5°	10524.5	8504.6	3202.0	2741.8	2840.1	2912.9	2891.2	2887.3	2893.2	2802.7	2808.6
40°	11433.2	8894.0	2944.3	2667.0	2745.7	2761.4	2700.5	2733.9	2763.4	2625.7	2629.6
42.5°	12442.1	9364.1	2781.1	2615.9	2667.0	2629.6	2535.2	2572.6	2568.7	2387.7	2385.8
45°	13470.8	9875.4	2724.1	2578.5	2594.2	2519.5	2415.3	2425.1	2342.5	2179.2	2185.1
47.5°	14493.5	10424.2	2759.5	2547.0	2503.8	2419.2	2338.6	2295.3	2173.3	2051.4	2051.4
50°	15496.6	11000.5	2889.3	2484.1	2379.9	2330.7	2271.7	2195.0	2065.2	1960.9	1953.1
52.5°	16426.9	11580.7	3034.8	2379.9	2224.5	2254.0	2216.6	2128.1	2000.3	1894.1	1896.0
55°	17308.1	12160.9	3091.8	2236.3	2078.9	2187.1	2165.5	2002.2	1848.8	1762.3	1754.4
57.5°	18267.9	12859.1	3028.9	2053.4	1960.9	2110.4	2027.8	1846.8	1758.3	1693.4	1687.5
60°	19597.5	13954.6	2893.2	1827.2	1848.8	1996.3	1854.7	1780.0	1683.6	1610.8	1606.9
62.5°	21806.2	15998.2	2674.9	1603.0	1717.0	1827.2	1772.1	1697.4	1599.0	1528.2	1528.2
65°	25071.1	18838.3	2263.8	1427.9	1569.5	1662.0	1683.6	1608.9	1506.6	1431.8	1435.8
67.5°	27824.7	20620.2	1713.1	1282.4	1418.1	1528.2	1589.2	1516.4	1408.2	1335.5	1337.4
70°	27673.2	19326.0	1307.9	1138.8	1284.3	1396.4	1475.1	1418.1	1302.0	1233.2	1239.1
72.5°	24579.4	16167.3	1058.2	993.2	1148.6	1258.8	1353.2	1309.9	1191.9	1125.0	1125.0
75°	18057.4	11476.4	845.7	845.7	979.5	1115.2	1219.4	1191.9	1083.7	1036.5	1022.7
77.5°	7611.6	4814.8	662.8	702.2	814.3	957.8	1087.7	1097.5	1003.1	1062.1	963.7
80°	2023.9	1327.6	505.5	552.7	639.2	790.7	946.0	942.1	839.8	784.8	729.7
82.5°	771.0	523.2	359.9	389.4	462.2	605.8	749.4	773.0	670.7	580.2	580.2
85°	297.0	224.2	222.3	234.1	269.5	401.2	566.4	586.1	505.5	428.8	442.5
87.5°	76.7	66.9	82.6	78.7	123.9	214.4	324.5	336.3	308.8	179.0	255.7
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)