

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: P885449

Luminaire Tested: **NAV-SB6D-727-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

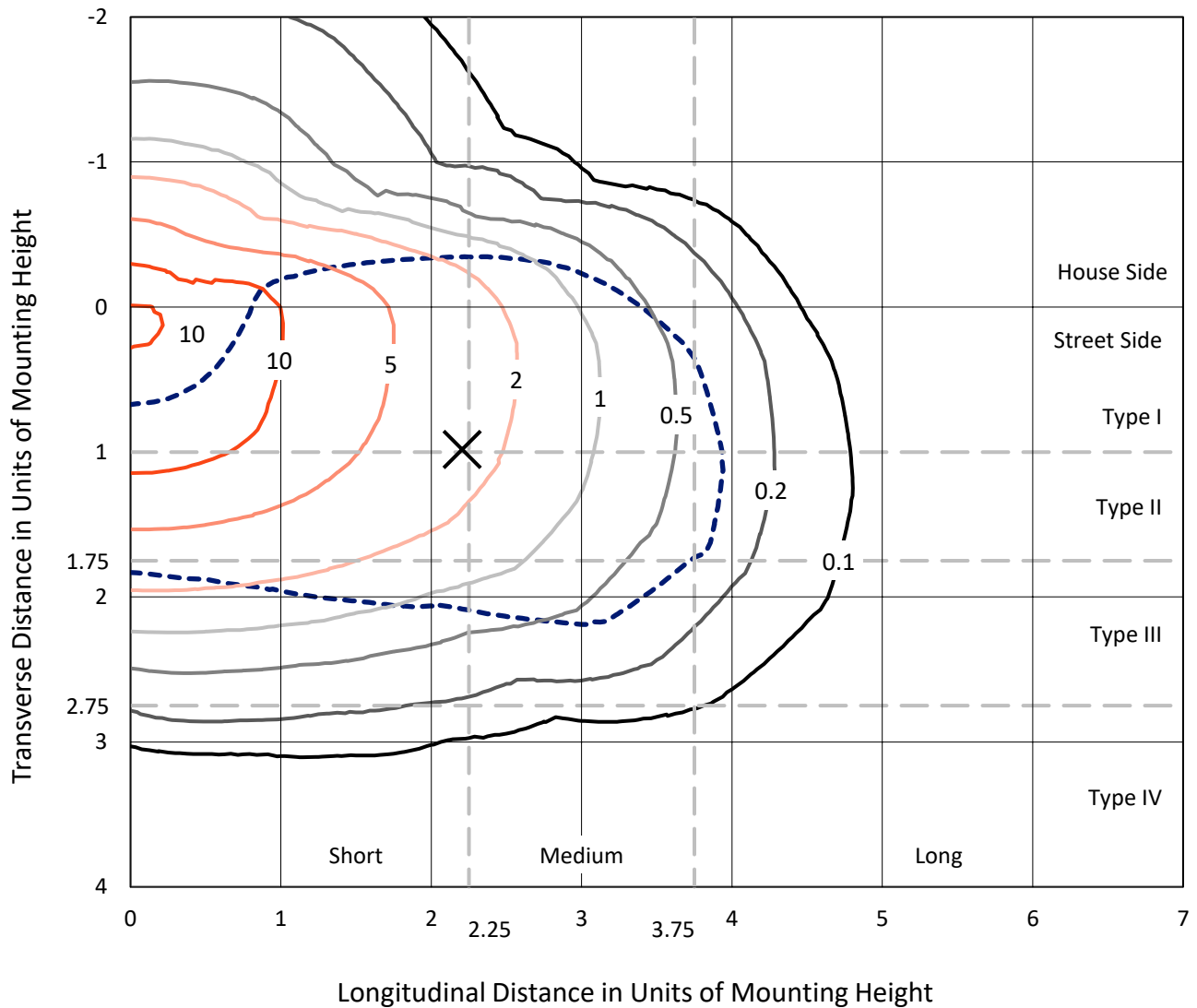
Lumens per Lamp: N/A  
Luminaire Lumens: 56013 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

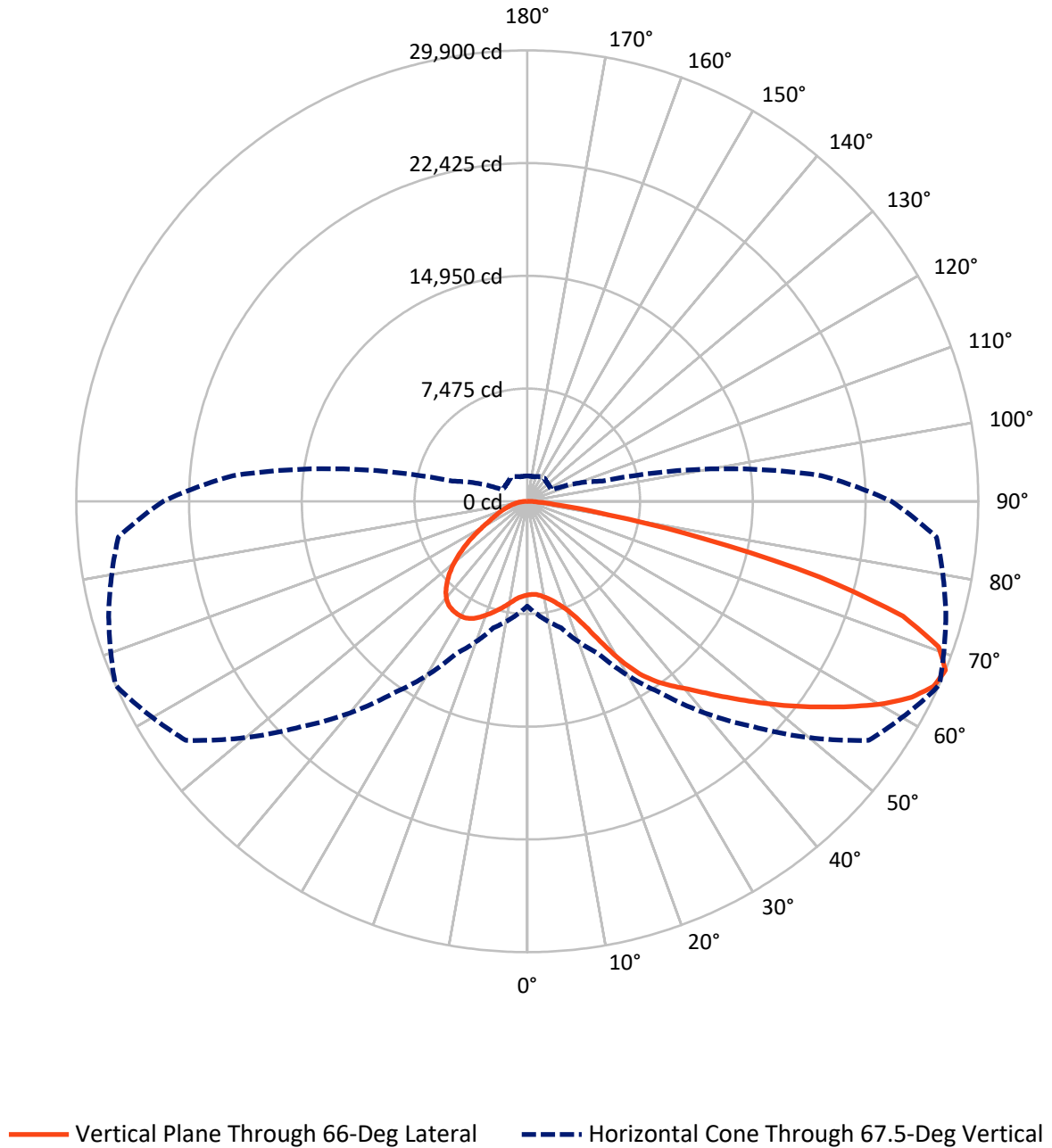
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13927.5	0.0	13927.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	42085.5	0.0	42085.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	56013.0	0.0	56013.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.9	1.1
10°-20°	2035.0	3.6
20°-30°	3922.4	7.0
30°-40°	6877.4	12.3
40°-50°	10224.5	18.3
50°-60°	12960.5	23.1
60°-70°	12681.5	22.6
70°-80°	6049.2	10.8
80°-90°	646.5	1.2
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°	56013.0	100.0
0°-180°	56013.0	100.0

**Coefficient of Utilization**



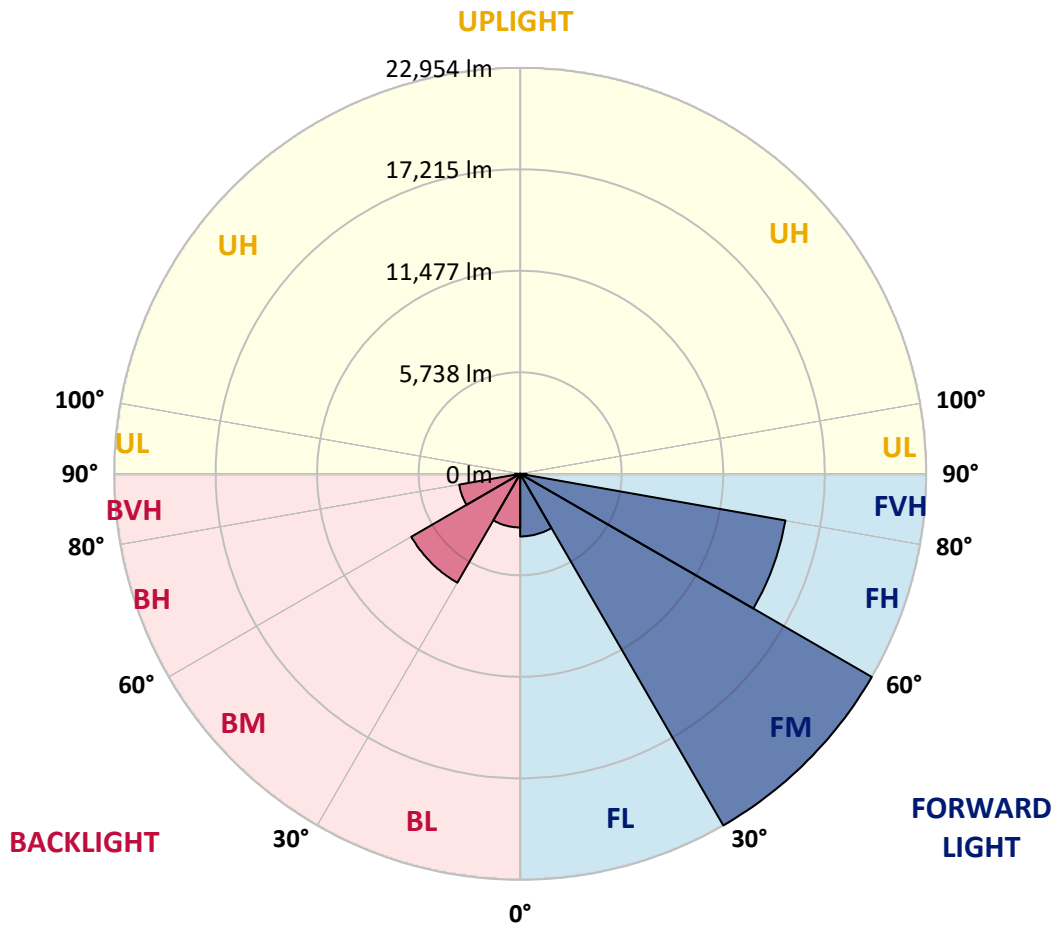
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3539.5	6.3			
FM (30°-60°)	22953.7	41.0			
FH (60°-80°)	15225.9	27.2			G5
FVH (80°-90°)	366.5	0.7			G3/500
BL (0°-30°)	3033.9	5.4	B4/5000		
BM (30°-60°)	7108.7	12.7	B4/8500		
BH (60°-80°)	3504.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	280.0	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6
2.5°	6147.8	6183.2	6174.3	6159.6	6156.7	6162.6	6171.4	6180.2	6177.3	6192.0	6215.5
5°	6130.2	6165.5	6162.6	6162.6	6174.3	6197.9	6212.6	6227.3	6212.6	6230.2	6262.6
7.5°	6142.0	6168.4	6180.2	6192.0	6221.4	6265.6	6300.9	6333.2	6315.6	6336.2	6377.4
10°	6292.0	6312.6	6324.4	6324.4	6345.0	6395.0	6430.4	6489.2	6474.5	6506.9	6559.9
12.5°	6565.7	6586.3	6586.3	6574.6	6589.3	6621.7	6633.4	6698.2	6671.7	6724.7	6777.6
15°	6901.2	6942.4	6910.1	6889.5	6895.3	6927.7	6924.8	6974.8	6948.3	6992.5	7039.6
17.5°	7272.0	7325.0	7272.0	7269.1	7257.3	7292.6	7295.6	7339.7	7292.6	7325.0	7357.4
20°	7710.5	7784.1	7740.0	7754.7	7728.2	7742.9	7757.6	7822.4	7748.8	7772.3	7763.5
22.5°	8328.6	8416.9	8369.8	8425.7	8408.0	8396.3	8393.3	8508.1	8393.3	8402.1	8316.8
25°	9229.1	9335.1	9252.7	9329.2	9329.2	9367.4	9411.6	9558.7	9367.4	9311.5	9090.8
27.5°	10559.3	10665.3	10503.4	10550.5	10535.8	10630.0	10582.9	10947.8	10741.8	10650.6	10206.2
30°	12160.3	12348.6	12042.6	12030.8	12016.1	12166.2	12233.9	12475.2	12266.2	12175.0	11639.4
32.5°	13890.8	14087.9	13723.0	13617.1	13561.1	13652.4	13596.5	13790.7	13646.5	13505.2	12843.1
35°	15721.3	15915.5	15568.2	15362.2	15138.6	14947.3	14747.2	14797.2	14661.8	14447.0	13761.3
37.5°	17451.7	17807.8	17440.0	17219.2	16807.2	16433.5	15874.3	15641.8	15515.3	15318.1	14626.5
40°	19214.6	19417.6	19138.0	18949.7	18502.4	17916.7	17022.1	16530.6	16359.9	16168.6	15583.0
42.5°	20512.4	20706.6	20556.6	20427.1	20076.9	19397.0	18240.4	17625.4	17378.2	17163.3	16666.0
45°	21542.4	21686.6	21592.5	21639.6	21489.5	20830.2	19503.0	18799.6	18543.6	18281.6	17890.2
47.5°	21957.4	22110.4	22260.5	22540.1	22796.1	22310.6	20859.7	20071.0	19800.2	19532.4	19146.9
50°	21910.3	22066.3	22501.8	23096.3	23890.9	23729.1	22290.0	21424.7	21174.6	20868.5	20512.4
52.5°	21533.6	21710.2	22269.4	23258.2	24523.7	24791.5	23746.7	22822.6	22587.2	22222.3	21866.2
55°	20544.8	20650.7	21489.5	22890.3	24673.8	25533.1	25174.1	24311.8	24076.3	23567.2	23178.7
57.5°	18711.3	18864.4	20085.7	21898.5	24297.1	26036.3	26427.8	25877.4	25650.8	24918.0	24511.9
60°	16318.7	16563.0	17960.9	20232.8	23337.6	26033.4	27566.7	27416.6	27228.2	26248.2	25824.4
62.5°	13611.2	13893.7	15238.6	17878.5	21660.2	25294.7	28278.9	28705.6	28608.5	27475.4	26933.9
65°	10453.4	10647.6	11986.7	14832.5	19049.8	23708.5	28361.3	29585.5	29603.2	28408.4	27513.7
67.5°	6960.1	7519.3	8681.7	11130.3	15553.5	21115.7	27637.3	29729.8	29900.4	28729.1	27222.4
70°	3396.2	4131.9	5270.8	7233.8	11130.3	17139.8	25745.0	28546.7	28926.3	27793.3	25486.0
72.5°	1409.7	1648.1	2269.0	3569.8	6389.2	11565.8	21942.7	25338.9	26042.2	24626.7	21427.7
75°	950.6	1030.0	1297.8	1830.5	2910.6	5703.5	15824.3	18893.8	20026.8	18599.5	15203.3
77.5°	732.8	782.8	944.7	1280.2	1730.5	2157.2	8469.8	11386.3	11971.9	11083.2	7910.7
80°	576.8	615.1	706.3	932.9	1227.2	1153.6	2887.0	5159.0	5497.4	4611.6	2542.7
82.5°	500.3	515.0	506.2	632.7	815.2	673.9	947.6	1904.1	2101.3	1524.5	829.9
85°	362.0	403.2	420.8	391.4	432.6	341.4	388.5	673.9	741.6	662.2	467.9
87.5°	147.1	217.8	267.8	253.1	158.9	97.1	120.7	197.2	226.6	247.2	153.0
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°	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6	6212.6
2.5°	6218.5	6239.1	6253.8	6271.4	6283.2	6300.9	6336.2	6356.8	6359.7	6374.4	6371.5
5°	6274.4	6303.8	6336.2	6383.3	6436.2	6480.4	6548.1	6595.2	6612.8	6627.5	6624.6
7.5°	6395.0	6436.2	6495.1	6577.5	6654.0	6712.9	6795.3	6851.2	6907.1	6927.7	6930.7
10°	6574.6	6633.4	6718.8	6830.6	6913.0	6989.5	7074.9	7122.0	7177.9	7201.4	7213.2
12.5°	6798.2	6860.0	6971.9	7127.8	7204.4	7257.3	7286.8	7275.0	7286.8	7307.4	7313.2
15°	7054.3	7122.0	7248.5	7416.3	7469.2	7422.1	7357.4	7298.5	7289.7	7295.6	7316.2
17.5°	7357.4	7407.4	7554.6	7695.8	7657.6	7463.3	7322.1	7227.9	7180.8	7166.1	7186.7
20°	7781.2	7781.2	7901.8	7990.1	7734.1	7404.5	7183.8	7030.7	6933.6	6892.4	6883.6
22.5°	8296.2	8249.1	8325.6	8263.8	7719.4	7239.7	6933.6	6668.7	6521.6	6462.7	6453.9
25°	8949.5	8893.6	8873.0	8490.4	7613.4	6977.8	6480.4	6159.6	6030.1	5997.7	6003.6
27.5°	9935.4	9794.2	9526.4	8614.0	7419.2	6565.7	5950.7	5653.4	5579.8	5582.8	5591.6
30°	11248.0	10965.5	10309.2	8634.6	7101.4	5983.0	5409.2	5197.3	5161.9	5176.7	5226.7
32.5°	12463.4	12195.6	11109.7	8540.5	6612.8	5412.1	4923.6	4782.3	4729.3	4747.0	4770.5
35°	13416.9	13343.4	11851.3	8408.0	6012.5	4876.5	4488.0	4367.3	4264.3	4240.8	4258.5
37.5°	14317.5	14288.1	12407.5	8222.6	5418.0	4496.8	4137.8	3978.9	3828.8	3746.4	3749.3
40°	15306.3	15276.9	12772.4	7937.2	4891.2	4167.2	3822.9	3614.0	3428.5	3278.5	3293.2
42.5°	16418.8	16245.1	12946.1	7528.1	4443.9	3887.6	3566.9	3284.3	3040.1	2901.8	2910.6
45°	17634.2	17242.8	12943.1	7007.2	4067.2	3631.6	3293.2	2892.9	2666.3	2536.8	2530.9
47.5°	18923.2	18196.3	12784.2	6430.4	3702.2	3349.1	2869.4	2563.3	2413.2	2333.8	2316.1
50°	20253.4	19088.0	12513.5	5768.2	3328.5	3028.3	2604.5	2395.6	2280.8	2207.2	2180.7
52.5°	21504.2	19897.3	12186.8	5017.7	2948.8	2716.3	2486.8	2324.9	2204.3	2121.9	2086.6
55°	22666.7	20594.8	11724.7	4249.6	2639.8	2507.4	2430.9	2295.5	2157.2	2060.1	2021.8
57.5°	23699.6	21048.0	10927.2	3528.6	2419.1	2363.2	2372.0	2245.5	2086.6	2004.2	1951.2
60°	24559.0	21380.6	9747.1	2860.6	2239.6	2221.9	2280.8	2151.3	1965.9	1871.7	1830.5
62.5°	25074.0	21374.7	8299.1	2342.6	2086.6	2092.4	2160.1	2033.6	1845.2	1756.9	1730.5
65°	25029.8	20850.8	6709.9	2004.2	1939.4	1945.3	2033.6	1904.1	1745.2	1692.2	1689.3
67.5°	24144.0	19573.6	5147.2	1783.4	1777.5	1804.0	1907.0	1815.8	1683.4	1677.5	1686.3
70°	21745.5	16922.0	3708.1	1606.9	1609.8	1648.1	1783.4	1759.9	1651.0	1662.8	1659.8
72.5°	17437.0	12901.9	2489.7	1421.4	1424.4	1486.2	1665.7	1715.7	1618.6	1774.6	1798.1
75°	11612.9	8046.0	1601.0	1224.3	1227.2	1306.7	1562.7	1630.4	1530.3	1768.7	1783.4
77.5°	5579.8	3616.9	1159.5	1030.0	1030.0	1103.6	1350.8	1459.7	1303.7	1374.4	1259.6
80°	1927.6	1359.6	912.3	829.9	812.3	862.3	1138.9	1265.5	1124.2	1035.9	971.2
82.5°	759.3	706.3	732.8	644.5	585.6	618.0	885.8	1044.7	827.0	747.5	744.6
85°	435.6	459.1	518.0	426.7	338.4	379.6	650.4	750.5	623.9	550.3	562.1
87.5°	117.7	161.9	238.4	220.7	153.0	161.9	309.0	415.0	359.0	276.6	285.5
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)