

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: P971343

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-727-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59666.3 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

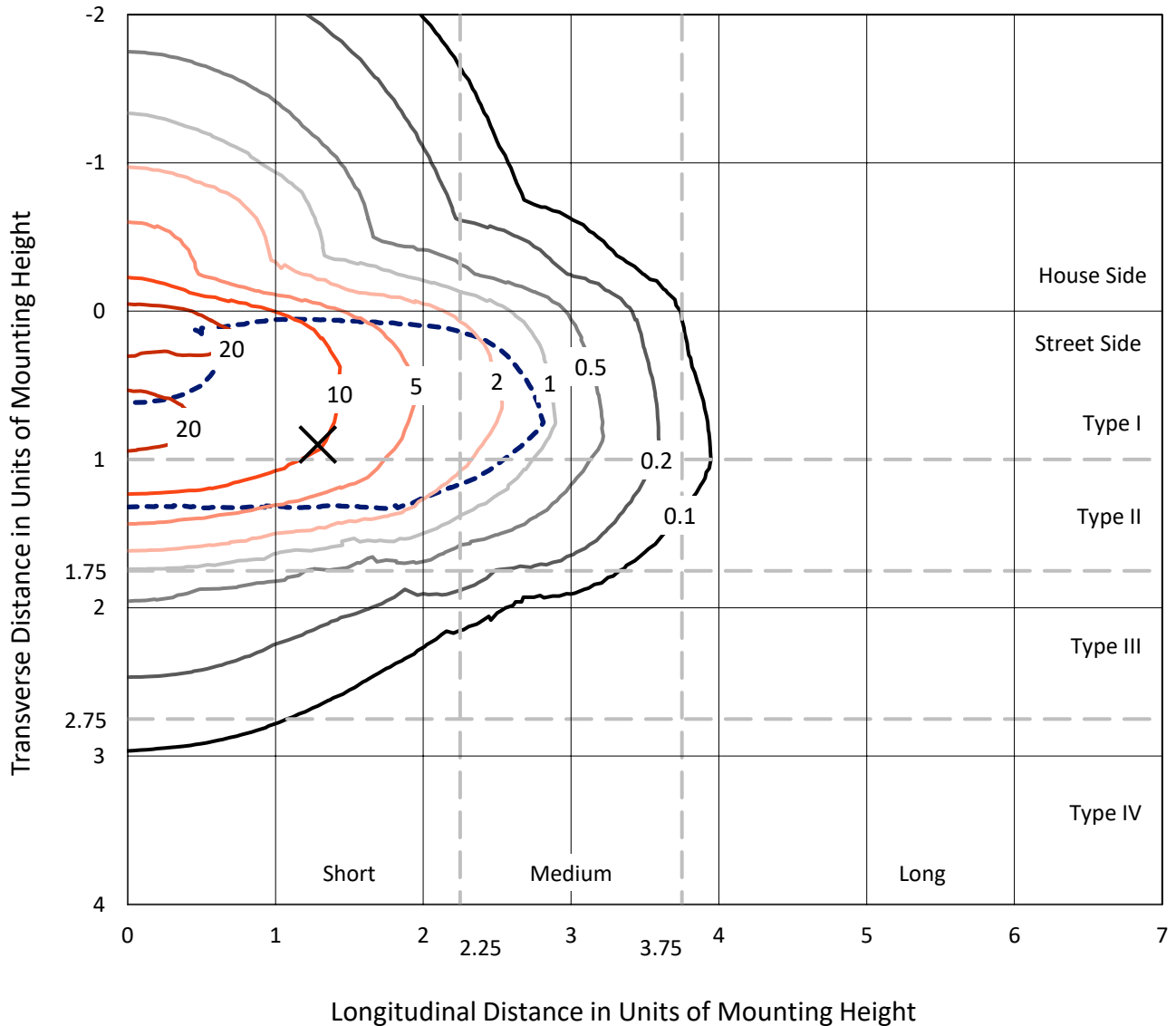
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

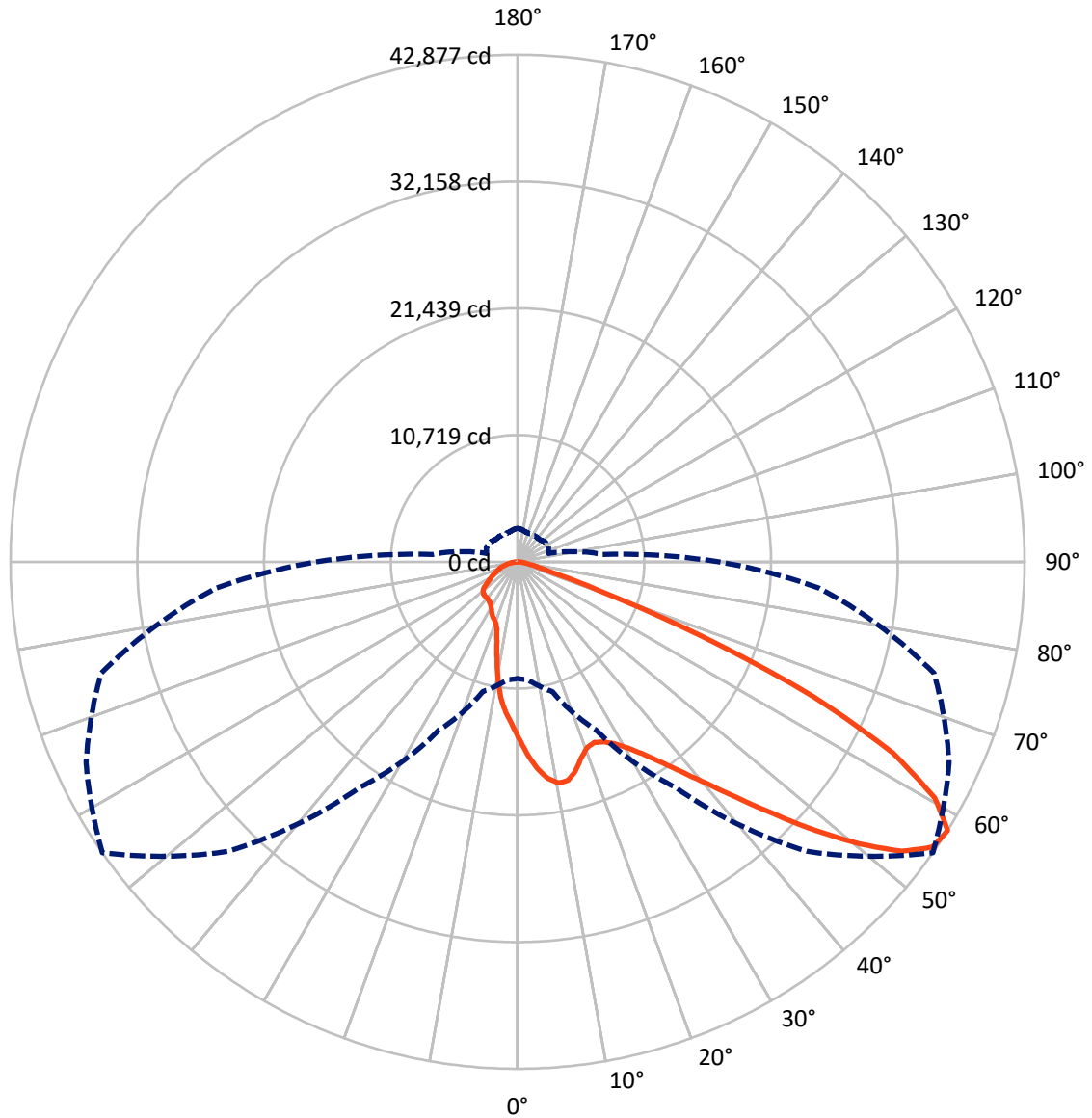
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10796.3	0.0	10796.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	48870.0	0.0	48870.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	59666.3	0.0	59666.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1387.3	2.3
10°-20°	3501.6	5.9
20°-30°	5587.6	9.4
30°-40°	8846.6	14.8
40°-50°	13540.6	22.7
50°-60°	14503.3	24.3
60°-70°	9124.1	15.3
70°-80°	2698.2	4.5
80°-90°	477.1	0.8
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°	59666.3	100.0
0°-180°	59666.3	100.0

**Coefficient of Utilization**

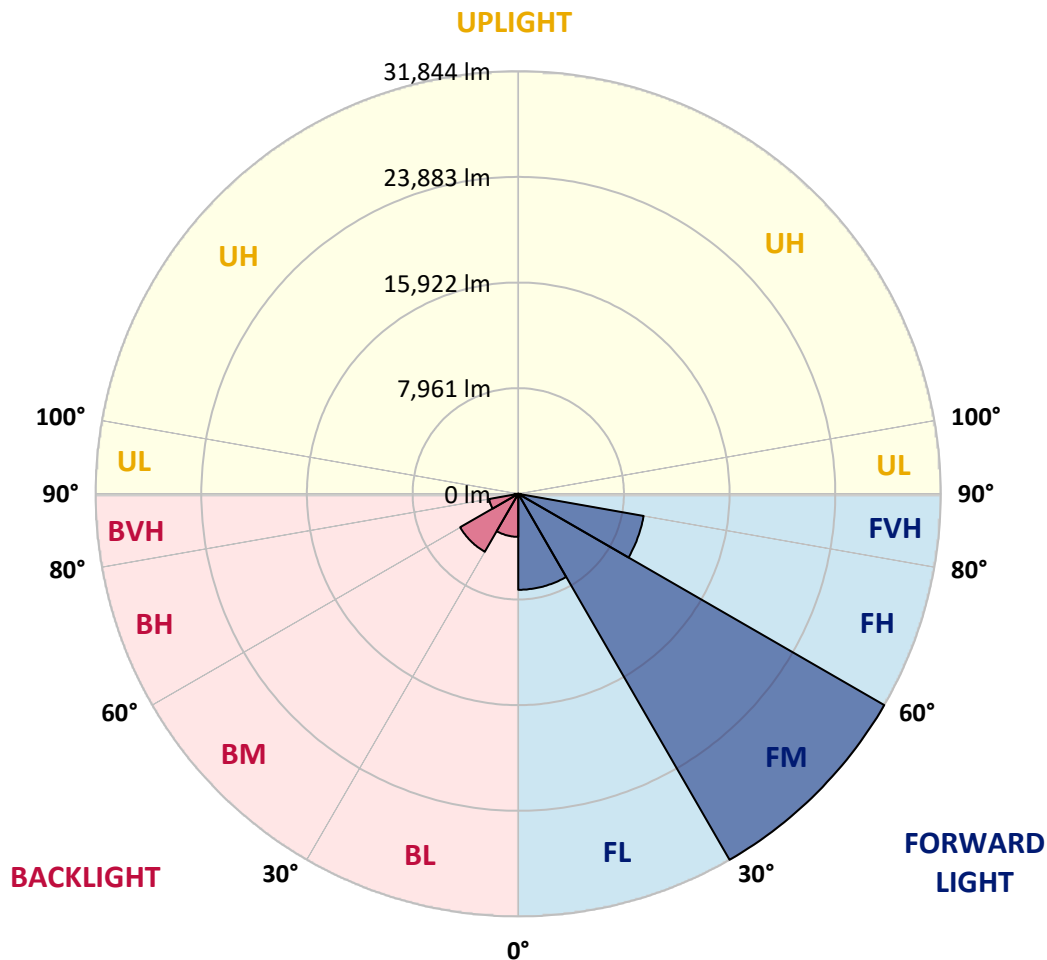


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7231.5	12.1			
FM (30°-60°)	31844.3	53.4			
FH (60°-80°)	9592.5	16.1			G4/12000
FVH (80°-90°)	201.6	0.3			G2/225
BL (0°-30°)	3245.0	5.4	B4/5000		
BM (30°-60°)	5046.1	8.5	B4/8500		
BH (60°-80°)	2229.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	275.5	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-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4
2.5°	17152.8	17140.4	17208.3	16977.0	16819.6	16606.7	16326.1	15968.3	15582.8	15175.6	14999.7
5°	18698.0	18590.1	18661.0	18488.3	18315.6	17994.8	17578.4	16995.4	16282.9	15471.7	15039.9
7.5°	18454.4	18380.4	18562.3	18716.6	18846.2	18806.0	18500.6	17889.9	16970.7	15792.5	15166.3
10°	16489.6	16406.3	16662.3	17195.9	17979.4	18661.0	19031.2	18651.8	17674.0	16144.2	15289.7
12.5°	14756.1	14716.0	14885.7	15317.5	16187.3	17495.1	18963.3	19318.1	18405.0	16560.5	15456.3
15°	14015.8	13966.4	14074.5	14293.4	14848.7	16067.0	18346.5	19774.5	19123.7	17041.8	15721.6
17.5°	13852.4	13796.8	13843.1	13957.2	14315.0	15243.5	17415.0	19999.7	19873.2	17578.4	15943.7
20°	14154.6	14108.4	14114.6	14108.4	14358.2	15095.4	16767.2	19913.4	20527.2	18071.9	16159.5
22.5°	14885.7	14808.6	14811.7	14648.2	14783.9	15354.5	16597.5	19682.0	21110.1	18503.7	16323.0
25°	16076.3	15937.4	15965.2	15548.8	15511.8	15934.3	16862.8	19503.1	21690.0	18849.2	16353.9
27.5°	17704.8	17547.6	17464.3	16844.3	16548.2	16757.9	17402.6	19564.8	22239.0	19148.4	16276.8
30°	19740.6	19549.4	19379.8	18500.6	17963.9	17886.9	18241.5	19971.9	22886.8	19463.0	16144.2
32.5°	22235.9	22013.8	21705.4	20539.5	19783.8	19379.8	19327.3	20696.8	23645.5	19864.0	16076.3
35°	25206.3	24916.3	24478.3	22970.0	22013.8	21187.3	20758.5	21742.4	24685.0	20468.5	16153.4
37.5°	28266.1	27939.1	27538.2	25743.0	24567.8	23349.4	22504.3	23161.3	26070.0	21289.0	16357.0
40°	31088.4	30721.3	30348.1	28750.3	27488.8	26020.6	24641.8	24956.5	27763.4	22269.9	16702.4
42.5°	32754.0	32482.6	32340.7	31477.0	30502.4	29012.5	27300.7	27084.7	29666.5	23398.8	17097.2
45°	32680.0	32569.0	33006.9	33364.8	33133.4	32306.8	30416.0	29438.2	31575.7	24376.6	17461.2
47.5°	30934.2	31008.2	31985.9	33997.0	34882.3	35314.1	33963.1	31748.5	33235.2	25107.6	17624.7
50°	26184.0	26245.7	28509.8	32846.5	35332.6	37766.2	37482.5	34003.2	34521.4	25554.9	17587.7
52.5°	22424.1	22464.2	23435.8	29435.1	33845.9	39000.0	40653.3	36128.4	35462.1	25678.2	17381.0
55°	16890.6	17029.4	18118.2	23093.5	29978.0	38022.3	42584.2	38318.4	36057.4	25690.6	17165.1
57.5°	9867.3	10018.3	11363.2	15675.3	23300.1	34613.9	42877.2	40261.6	36461.5	25591.9	17035.5
60°	4833.4	4898.2	5484.2	8238.6	14367.4	28047.1	40520.7	41202.3	36686.7	25539.4	17029.4
62.5°	3257.2	3247.9	3272.6	4065.4	7078.9	18019.5	35610.2	39555.3	36566.4	25338.9	16967.6
65°	2800.7	2766.8	2674.2	2853.1	3667.4	8241.7	27513.5	34638.6	35650.3	24836.2	16545.1
67.5°	2421.4	2424.4	2427.5	2372.0	2618.7	3803.2	16813.5	27285.2	32362.2	22455.0	14916.5
70°	2004.9	2032.7	2045.0	2045.0	2134.5	2495.4	7177.6	18701.1	25527.1	17606.1	12014.0
72.5°	1826.0	1767.4	1773.6	1742.7	1742.7	1900.0	2890.2	10601.4	16082.5	9904.3	7331.8
75°	1489.8	1526.8	1533.0	1511.4	1440.4	1449.7	1714.9	4447.8	6881.4	4108.5	3624.3
77.5°	1286.3	1286.3	1298.6	1283.1	1227.6	1085.8	1144.3	1724.3	2341.1	1684.1	1810.6
80°	1033.3	1030.2	1082.6	1113.5	1027.2	802.0	731.0	953.1	1039.5	740.3	940.7
82.5°	502.8	533.6	743.3	848.2	780.3	579.8	447.2	592.2	555.2	327.0	422.6
85°	293.0	277.6	333.1	471.9	447.2	320.8	215.9	308.4	290.0	166.6	169.6
87.5°	92.6	86.4	67.9	160.4	129.6	89.5	58.6	89.5	80.2	37.0	37.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4	14950.4
2.5°	14780.8	14416.8	14055.9	13725.9	13525.4	13395.8	13266.3	13121.3	13065.8	12982.5
5°	14632.7	13929.4	13303.4	12763.5	12273.1	11887.5	11498.9	11184.3	11042.4	11138.1
7.5°	14546.4	13528.5	12563.0	11573.0	10619.8	9857.9	9194.8	8729.0	8519.3	8571.8
10°	14469.2	13075.1	11603.8	10040.0	8670.5	7726.6	7048.0	6693.4	6560.7	6588.4
12.5°	14398.3	12566.1	10447.1	8389.7	6933.9	6310.8	6116.5	6119.6	6144.3	6162.8
15°	14386.0	11952.3	9154.7	6946.2	5996.2	5956.1	6165.9	6298.5	6369.5	6391.0
17.5°	14367.4	11218.2	7837.7	5962.3	5768.0	6039.4	6233.7	6320.0	6375.6	6378.7
20°	14293.4	10286.7	6622.3	5493.5	5718.6	5953.0	6073.3	6141.2	6187.4	6202.9
22.5°	14065.2	9250.3	5675.4	5283.7	5521.2	5709.4	5851.2	5928.4	5956.1	5974.6
25°	13654.9	8090.5	5021.5	5083.2	5246.7	5484.2	5598.3	5613.7	5604.5	5632.3
27.5°	13118.3	6847.5	4614.3	4811.8	5021.5	5225.1	5286.7	5277.5	5259.1	5289.8
30°	12470.6	5731.0	4355.2	4506.4	4793.3	4978.3	5033.9	5012.2	4975.2	5009.2
32.5°	11785.8	4817.9	4142.4	4293.6	4605.1	4787.1	4842.6	4821.0	4793.3	4821.0
35°	11147.3	4179.4	3945.0	4151.7	4457.1	4636.0	4706.9	4710.0	4710.0	4743.9
37.5°	10561.2	3806.2	3781.5	4062.3	4355.2	4515.6	4617.4	4623.7	4491.0	4500.3
40°	10018.3	3648.9	3707.5	4003.6	4256.6	4410.8	4416.9	4071.5	3827.9	3821.6
42.5°	9574.2	3618.0	3729.2	3997.5	4185.6	4191.8	3756.9	3488.6	3420.6	3423.8
45°	9157.8	3608.8	3778.5	3997.5	4080.7	3621.1	3328.2	3257.2	3263.4	3288.1
47.5°	8692.0	3571.8	3787.7	3941.9	3778.5	3220.1	3133.8	3103.0	3090.7	3096.8
50°	8183.1	3439.2	3670.5	3830.9	3260.3	3047.4	2939.5	2930.3	2945.6	2955.0
52.5°	7646.4	3223.3	3470.0	3630.4	3022.8	2896.3	2776.0	2797.6	2865.5	2887.0
55°	7294.8	2970.3	3204.8	3229.5	2856.3	2754.5	2652.6	2702.0	2828.5	2868.6
57.5°	7202.3	2702.0	2902.5	2874.7	2643.4	2631.1	2569.4	2612.5	2772.9	2831.6
60°	7174.5	2461.4	2606.4	2584.7	2436.7	2495.4	2479.9	2501.5	2557.1	2575.5
62.5°	6958.5	2270.2	2341.1	2310.2	2251.6	2353.5	2390.5	2344.2	2387.4	2409.0
65°	6409.5	2115.9	2082.0	2060.5	2085.1	2177.6	2251.6	2159.2	2199.2	2260.9
67.5°	5502.7	1906.2	1813.6	1838.3	1915.4	1964.8	2060.5	1955.6	1989.5	2094.4
70°	4450.9	1640.9	1557.7	1628.6	1702.6	1804.4	1819.9	1748.9	1829.1	1946.3
72.5°	3149.2	1372.6	1313.9	1459.0	1483.6	1616.2	1582.3	1548.4	1659.5	1699.6
75°	2183.8	1107.3	1073.4	1184.4	1273.9	1388.1	1363.4	1403.4	1637.8	1656.4
77.5°	1381.8	860.6	839.0	909.9	1033.3	1159.8	1199.9	1656.4	2797.6	2908.6
80°	802.0	641.5	616.8	672.4	780.3	897.6	1156.7	2032.7	1844.5	1823.0
82.5°	447.2	441.1	410.2	425.7	521.3	647.7	1634.8	1431.2	1162.9	1199.9
85°	209.7	259.1	222.1	212.8	293.0	758.8	1091.9	817.3	542.8	530.5
87.5°	55.6	49.3	49.3	55.6	123.4	653.9	434.9	348.5	206.6	200.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)