

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: P970816

Luminaire Tested: **NAV-SB6C-727-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970816  
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-SB6C-727-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

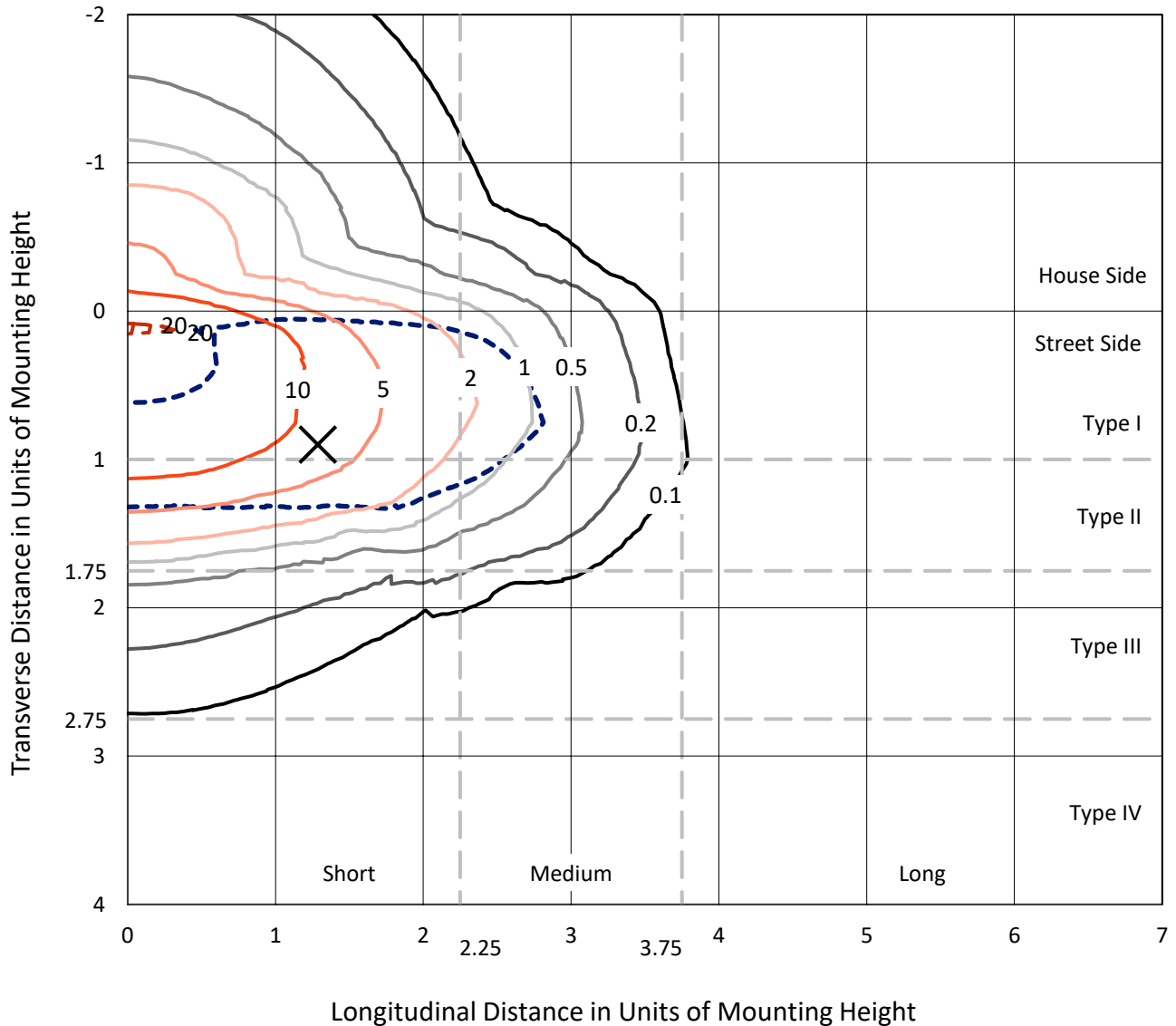
Lumens per Lamp: N/A  
Luminaire Lumens: 43912 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

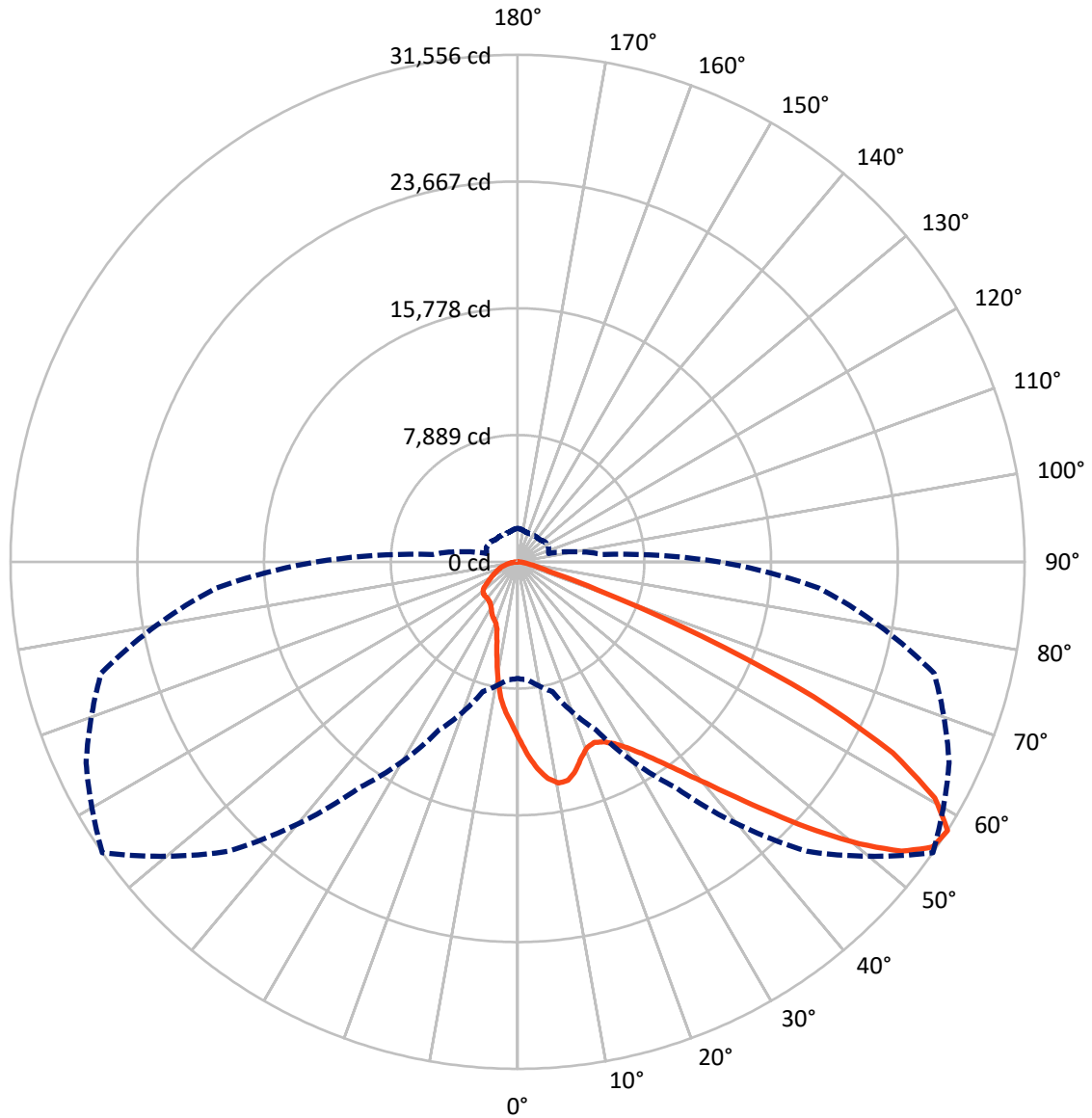
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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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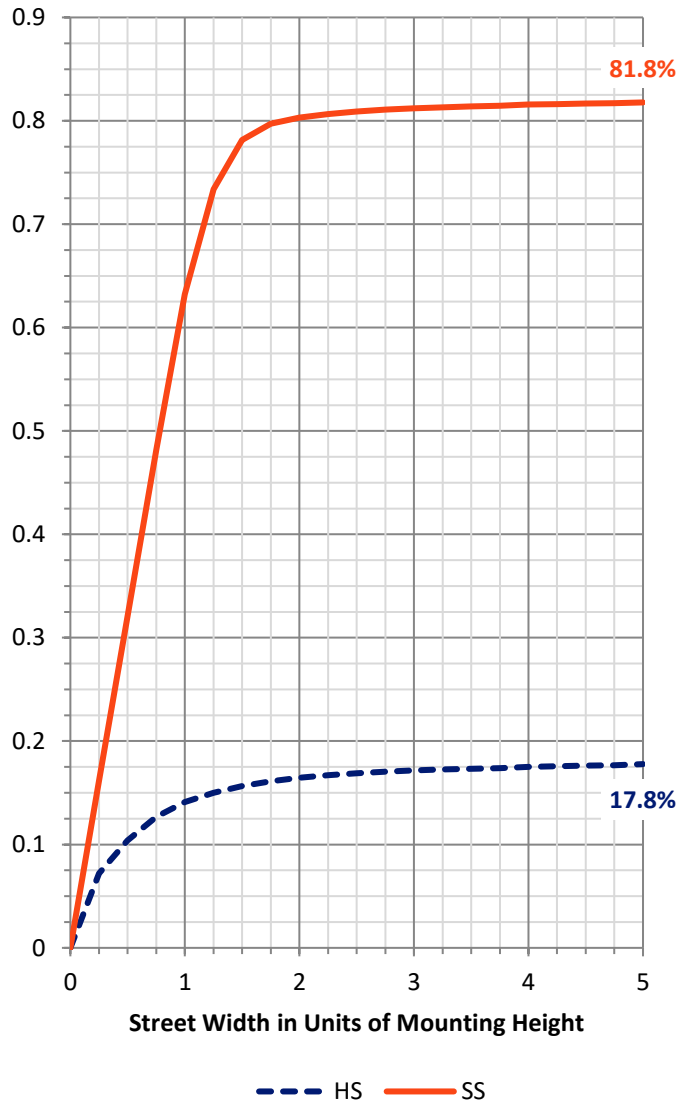
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7945.7	0.0	7945.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	35966.4	0.0	35966.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	43912.0	0.0	43912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.0	2.3
10°-20°	2577.1	5.9
20°-30°	4112.3	9.4
30°-40°	6510.7	14.8
40°-50°	9965.3	22.7
50°-60°	10673.8	24.3
60°-70°	6715.0	15.3
70°-80°	1985.7	4.5
80°-90°	351.1	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°	43912.0	100.0
0°-180°	43912.0	100.0

**Coefficient of Utilization**



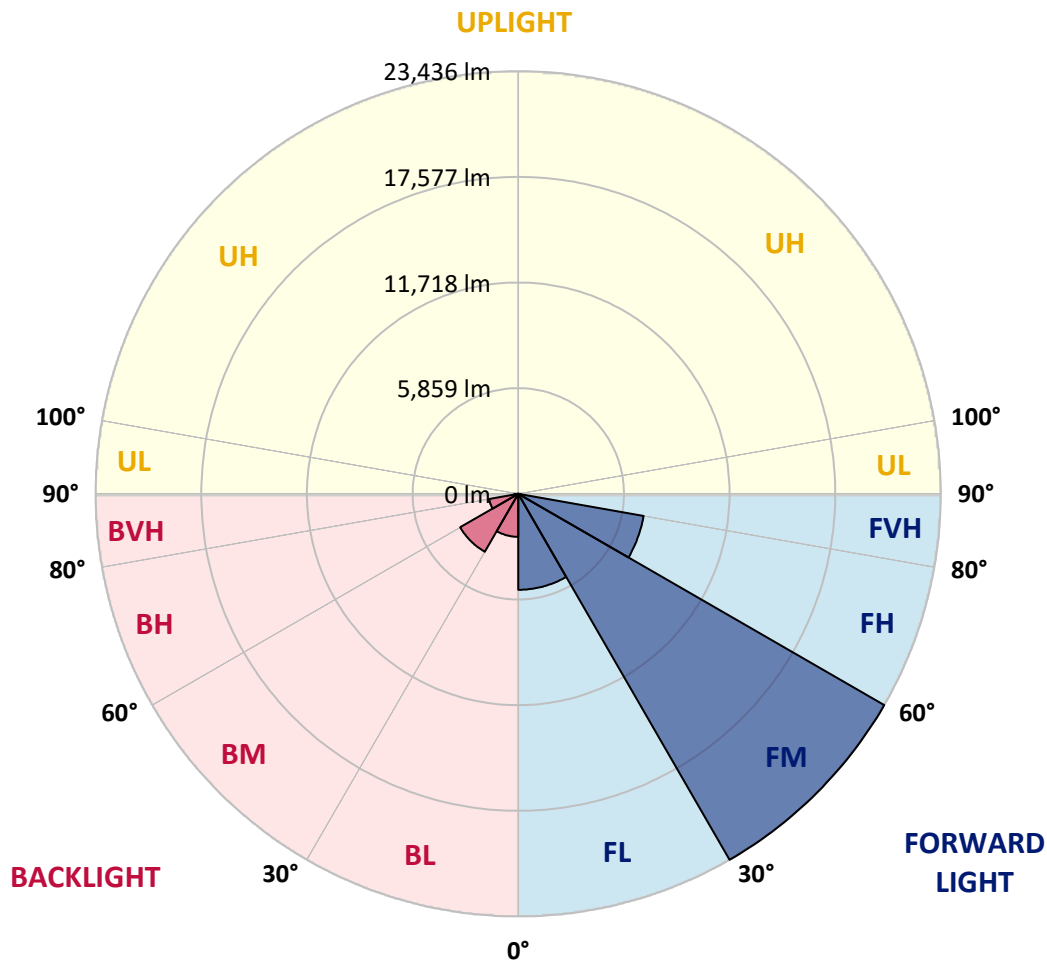
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5322.1	12.1			
FM (30°-60°)	23436.2	53.4			
FH (60°-80°)	7059.7	16.1			G3/7500
FVH (80°-90°)	148.3	0.3			G2/225
BL (0°-30°)	2388.2	5.4	B3/2500		
BM (30°-60°)	3713.7	8.5	B3/5000		
BH (60°-80°)	1641.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	202.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0
2.5°	12623.7	12614.7	12664.6	12494.3	12378.6	12221.9	12015.4	11752.0	11468.3	11168.6	11039.2
5°	13761.0	13681.6	13733.8	13606.7	13479.6	13243.5	12937.0	12508.0	11983.6	11386.5	11068.8
7.5°	13581.7	13527.2	13661.2	13774.7	13870.0	13840.5	13615.8	13166.3	12489.8	11622.7	11161.8
10°	12135.7	12074.4	12262.8	12655.6	13232.1	13733.8	14006.2	13727.0	13007.4	11881.4	11252.7
12.5°	10859.9	10830.4	10955.3	11273.1	11913.3	12875.7	13956.3	14217.4	13545.4	12187.9	11375.2
15°	10315.1	10278.8	10358.2	10519.4	10928.0	11824.7	13502.2	14553.3	14074.3	12542.0	11570.4
17.5°	10194.8	10154.0	10188.0	10271.9	10535.3	11218.6	12816.7	14719.0	14625.9	12937.0	11733.9
20°	10417.3	10383.2	10387.8	10383.2	10567.0	11109.7	12340.0	14655.4	15107.2	13300.2	11892.8
22.5°	10955.3	10898.5	10900.8	10780.4	10880.4	11300.3	12215.1	14485.2	15536.2	13618.0	12013.1
25°	11831.5	11729.4	11749.8	11443.3	11416.0	11727.0	12410.4	14353.5	15962.9	13872.2	12035.8
27.5°	13030.1	12914.3	12853.0	12396.8	12178.8	12333.2	12807.6	14398.9	16367.1	14092.4	11979.1
30°	14528.4	14387.6	14262.7	13615.8	13220.8	13164.0	13425.0	14698.6	16843.7	14324.0	11881.4
32.5°	16364.7	16201.4	15974.3	15116.3	14560.1	14262.7	14224.1	15232.0	17402.2	14619.2	11831.5
35°	18550.9	18337.5	18015.1	16905.0	16201.4	15593.0	15277.4	16001.6	18167.2	15064.0	11888.3
37.5°	20802.7	20562.1	20267.0	18945.8	18080.9	17184.2	16562.3	17045.8	19186.5	15667.8	12038.1
40°	22879.8	22609.7	22335.1	21159.2	20230.6	19150.2	18135.4	18367.0	20432.8	16389.8	12292.3
42.5°	24105.6	23905.9	23801.4	23165.8	22448.5	21352.1	20092.3	19933.3	21833.3	17220.6	12582.9
45°	24051.2	23969.4	24291.8	24555.1	24384.9	23776.5	22385.0	21665.3	23238.5	17940.2	12850.7
47.5°	22766.3	22820.8	23540.5	25020.5	25671.9	25989.8	24995.5	23365.6	24459.8	18478.2	12971.1
50°	19270.4	19315.8	20982.1	24173.7	26003.4	27794.5	27585.6	25025.1	25406.4	18807.3	12943.8
52.5°	16503.2	16532.7	17247.9	21663.1	24909.2	28702.5	29919.2	26589.1	26098.8	18898.1	12791.7
55°	12430.8	12533.0	13334.2	16995.8	22062.6	27982.9	31340.3	28200.8	26536.8	18907.3	12632.8
57.5°	7261.9	7373.1	8362.9	11536.4	17147.9	25474.5	31556.0	29630.9	26834.3	18834.6	12537.5
60°	3557.2	3604.8	4036.1	6063.3	10573.9	20641.6	29821.7	30323.3	26999.9	18796.0	12533.0
62.5°	2397.2	2390.4	2408.5	2992.0	5209.8	13261.7	26207.7	29111.1	26911.5	18648.4	12487.6
65°	2061.2	2036.3	1968.1	2099.8	2699.1	6065.5	20248.9	25492.7	26237.2	18278.4	12176.6
67.5°	1782.0	1784.2	1786.6	1745.7	1927.3	2799.0	12374.0	20080.9	23817.3	16526.0	10978.0
70°	1475.5	1496.0	1505.0	1505.0	1570.9	1836.5	5282.4	13763.3	18786.9	12957.4	8841.9
72.5°	1343.9	1300.7	1305.2	1282.6	1282.6	1398.3	2127.1	7802.2	11836.1	7289.1	5395.9
75°	1096.4	1123.7	1128.2	1112.3	1060.2	1066.9	1262.2	3273.4	5064.5	3023.7	2667.4
77.5°	946.6	946.6	955.7	944.3	903.4	799.1	842.1	1268.9	1722.9	1239.4	1332.5
80°	760.4	758.2	796.8	819.5	755.9	590.2	538.0	701.4	765.0	544.8	692.4
82.5°	370.0	392.7	547.0	624.2	574.3	426.8	329.1	435.8	408.6	240.7	311.0
85°	215.7	204.3	245.2	347.3	329.1	236.1	158.9	227.0	213.4	122.6	124.8
87.5°	68.1	63.6	49.9	118.1	95.3	65.8	43.2	65.8	59.0	27.3	27.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0	11003.0
2.5°	10878.1	10610.2	10344.6	10101.7	9954.2	9858.9	9763.4	9656.8	9615.9	9554.6
5°	10769.2	10251.5	9790.7	9393.5	9032.5	8748.8	8462.7	8231.2	8126.8	8197.1
7.5°	10705.5	9956.4	9245.9	8517.2	7815.8	7255.1	6767.0	6424.3	6269.9	6308.5
10°	10648.8	9622.7	8539.9	7389.0	6381.1	5686.5	5187.0	4926.0	4828.4	4848.9
12.5°	10596.6	9248.2	7688.6	6174.5	5103.1	4644.5	4501.5	4503.7	4521.9	4535.5
15°	10587.5	8796.4	6737.5	5112.2	4412.9	4383.5	4537.8	4635.5	4687.6	4703.5
17.5°	10573.9	8256.2	5768.2	4388.0	4245.0	4444.7	4587.8	4651.3	4692.1	4694.5
20°	10519.4	7570.6	4873.8	4042.9	4208.6	4381.2	4469.7	4519.6	4553.8	4565.0
22.5°	10351.5	6807.8	4176.9	3888.6	4063.4	4201.9	4306.3	4363.0	4383.5	4397.0
25°	10049.5	5954.3	3695.6	3741.0	3861.4	4036.1	4120.1	4131.5	4124.7	4145.1
27.5°	9654.5	5039.5	3396.0	3541.3	3695.6	3845.5	3890.9	3884.0	3870.4	3893.2
30°	9177.8	4217.8	3205.3	3316.6	3527.6	3663.9	3704.8	3688.9	3661.6	3686.5
32.5°	8673.9	3545.8	3048.7	3159.9	3389.2	3523.1	3564.0	3548.0	3527.6	3548.0
35°	8204.0	3075.9	2903.4	3055.5	3280.2	3411.9	3464.1	3466.3	3466.3	3491.4
37.5°	7772.7	2801.2	2783.1	2989.6	3205.3	3323.4	3398.3	3402.8	3305.2	3312.0
40°	7373.1	2685.5	2728.5	2946.6	3132.7	3246.2	3250.7	2996.5	2817.1	2812.6
42.5°	7046.3	2662.7	2744.5	2942.0	3080.4	3085.0	2764.9	2567.4	2517.5	2519.8
45°	6739.8	2656.0	2780.8	2942.0	3003.2	2665.0	2449.3	2397.2	2401.7	2419.9
47.5°	6397.0	2628.7	2787.6	2901.2	2780.8	2369.9	2306.4	2283.7	2274.6	2279.1
50°	6022.5	2531.1	2701.4	2819.4	2399.4	2242.8	2163.4	2156.5	2167.9	2174.7
52.5°	5627.5	2372.2	2553.8	2671.9	2224.7	2131.6	2043.0	2058.9	2108.8	2124.7
55°	5368.6	2186.0	2358.6	2376.8	2102.1	2027.1	1952.2	1988.6	2081.7	2111.2
57.5°	5300.6	1988.6	2136.1	2115.7	1945.4	1936.3	1890.9	1922.7	2040.8	2083.9
60°	5280.2	1811.5	1918.2	1902.3	1793.3	1836.5	1825.1	1841.0	1881.9	1895.5
62.5°	5121.2	1670.7	1722.9	1700.3	1657.1	1732.0	1759.3	1725.3	1757.1	1772.9
65°	4717.2	1557.3	1532.3	1516.4	1534.5	1602.7	1657.1	1589.1	1618.6	1664.0
67.5°	4049.8	1402.9	1334.8	1353.0	1409.7	1446.1	1516.4	1439.2	1464.2	1541.4
70°	3275.7	1207.7	1146.4	1198.6	1253.1	1328.0	1339.4	1287.1	1346.1	1432.4
72.5°	2317.7	1010.1	967.1	1073.7	1091.9	1189.5	1164.5	1139.6	1221.3	1250.8
75°	1607.2	815.0	790.0	871.7	937.6	1021.5	1003.4	1032.9	1205.4	1219.0
77.5°	1017.0	633.3	617.5	669.6	760.4	853.5	883.0	1219.0	2058.9	2140.6
80°	590.2	472.2	454.0	494.9	574.3	660.6	851.3	1496.0	1357.5	1341.6
82.5°	329.1	324.6	302.0	313.2	383.7	476.7	1203.1	1053.3	855.8	883.0
85°	154.4	190.6	163.5	156.6	215.7	558.4	803.6	601.6	399.5	390.4
87.5°	40.9	36.3	36.3	40.9	90.8	481.2	320.1	256.6	152.1	147.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)