

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: P970833

Luminaire Tested: **NAV-SB6C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43755.2 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

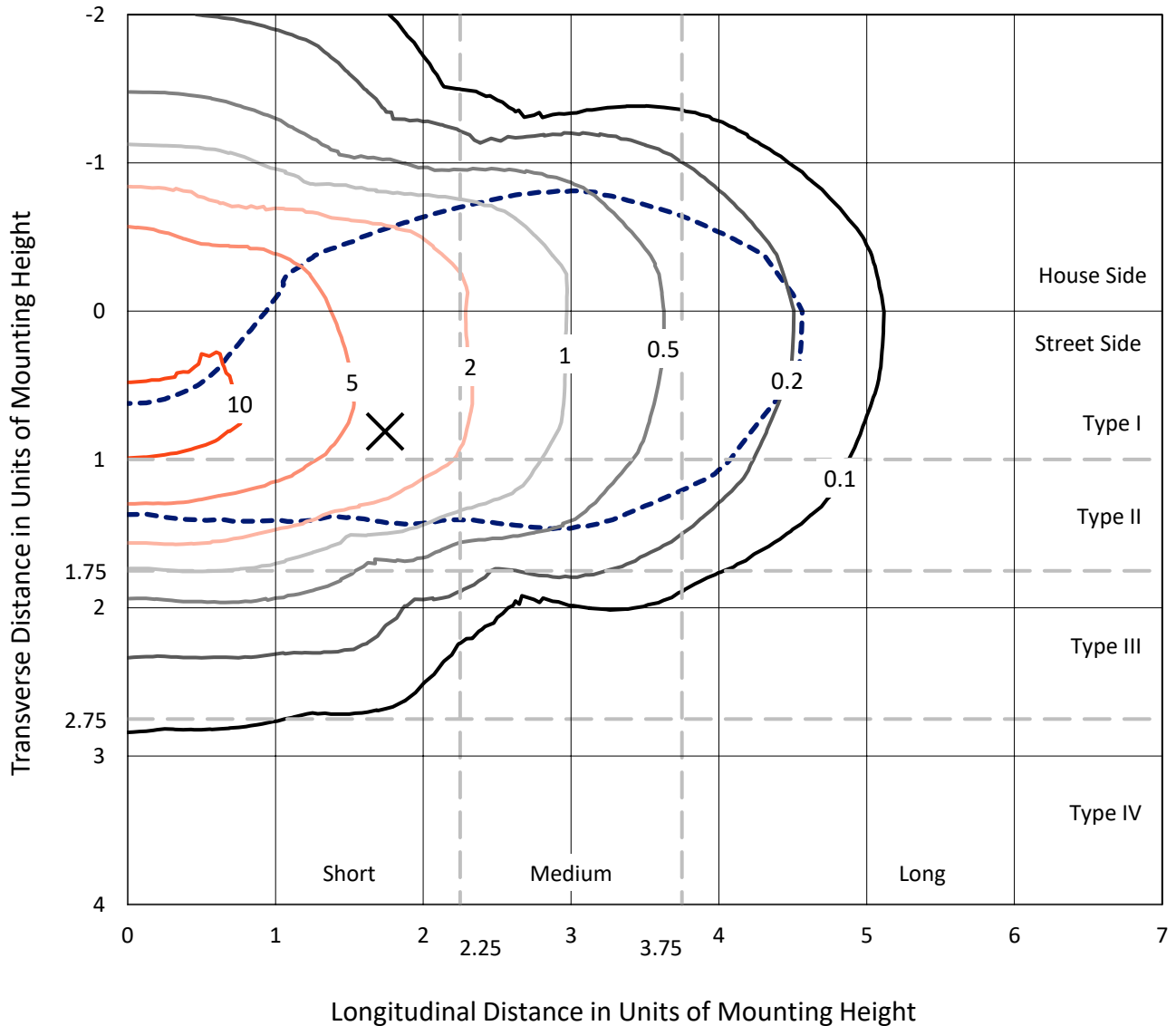
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970833
 CATALOG NUMBER: NAV-SB6C-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

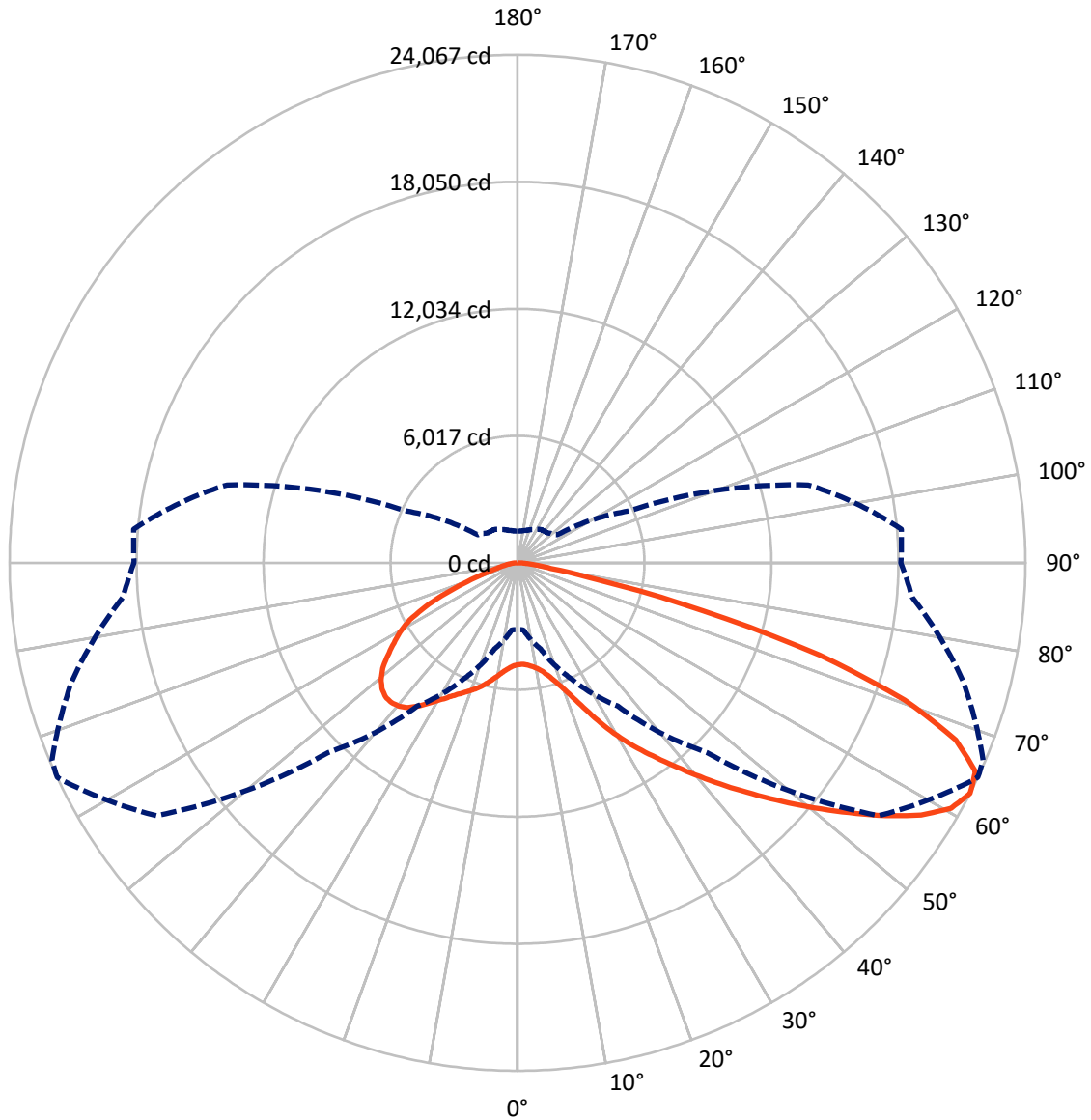
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P970833
CATALOG NUMBER: NAV-SB6C-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P970833
 CATALOG NUMBER: NAV-SB6C-727-U-T2U

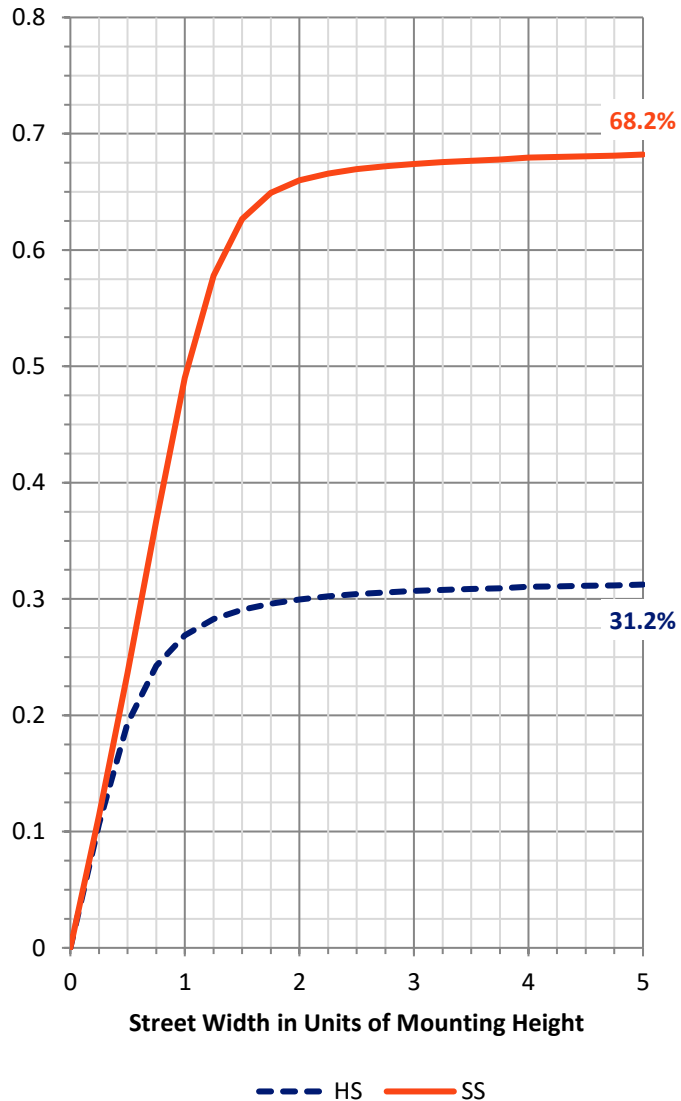
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13807.2	0.0	13807.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29948.0	0.0	29948.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	43755.2	0.0	43755.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.1
10°-20°	1630.1	3.7
20°-30°	3305.3	7.6
30°-40°	5719.7	13.1
40°-50°	8655.7	19.8
50°-60°	10148.2	23.2
60°-70°	8508.1	19.4
70°-80°	4697.1	10.7
80°-90°	610.1	1.4
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°	43755.2	100.0
0°-180°	43755.2	100.0

Coefficient of Utilization

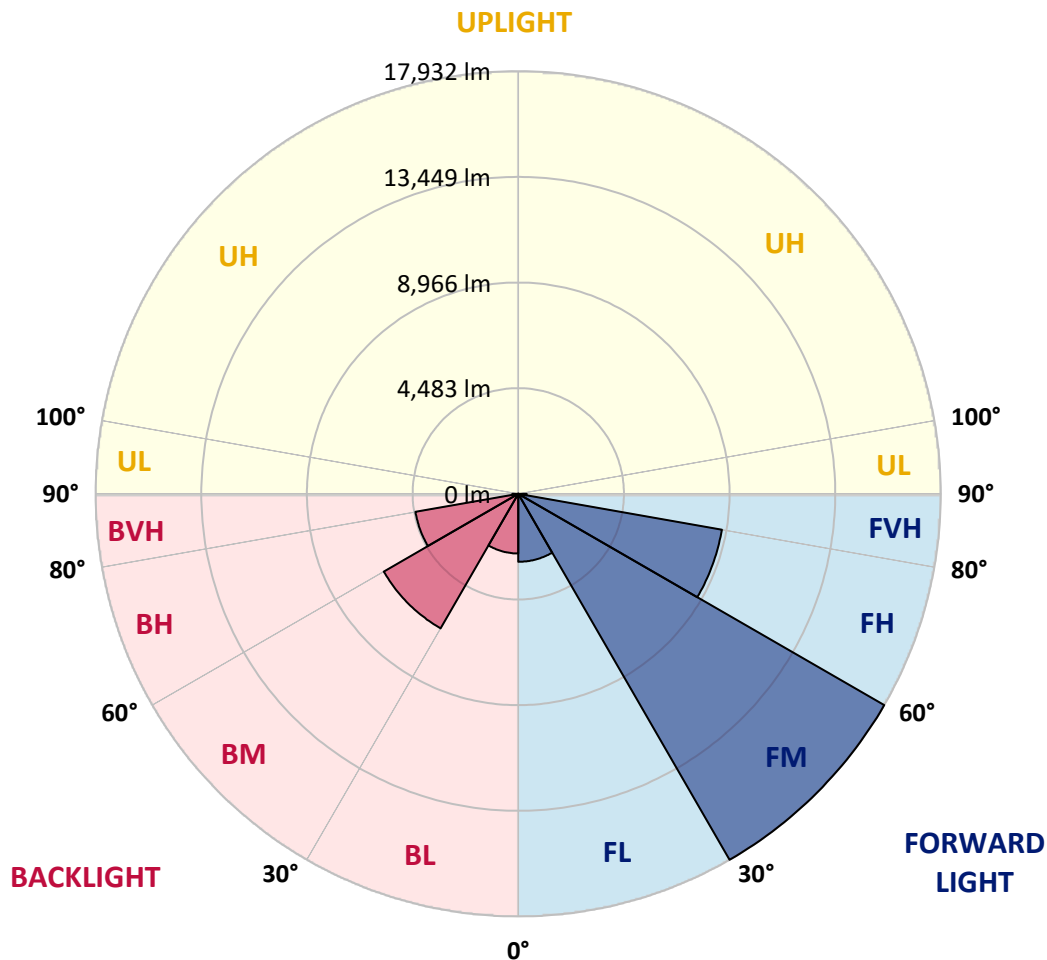


REPORT NUMBER: P970833
 CATALOG NUMBER: NAV-SB6C-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2884.1	6.6			
FM (30°-60°)	17932.3	41.0			
FH (60°-80°)	8776.0	20.1			G4/12000
FVH (80°-90°)	355.6	0.8			G3/500
BL (0°-30°)	2532.1	5.8	B4/5000		
BM (30°-60°)	6591.4	15.1	B4/8500		
BH (60°-80°)	4429.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	254.5	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-G4
 Type II Short



REPORT NUMBER: P970833
 CATALOG NUMBER: NAV-SB6C-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6
2.5°	4789.8	4776.2	4787.6	4787.6	4792.1	4789.8	4805.7	4810.3	4817.1	4830.7	4830.7
5°	4742.2	4739.9	4760.3	4778.5	4796.7	4812.6	4833.0	4862.5	4867.0	4882.9	4903.4
7.5°	4726.3	4712.6	4744.4	4767.2	4810.3	4848.9	4903.4	4953.3	4973.7	4980.6	5019.1
10°	4848.9	4826.2	4855.7	4869.3	4905.6	4944.2	5007.7	5087.3	5109.9	5137.2	5180.3
12.5°	5057.8	5032.8	5075.9	5096.3	5130.3	5164.5	5207.5	5284.7	5296.1	5346.0	5386.9
15°	5343.7	5314.2	5341.5	5366.5	5423.2	5454.9	5498.1	5573.0	5573.0	5611.6	5641.1
17.5°	5731.9	5693.4	5713.8	5722.9	5759.2	5806.8	5879.5	5945.3	5979.3	5965.7	5924.9
20°	6310.8	6263.2	6263.2	6217.8	6204.1	6242.7	6338.1	6428.8	6465.2	6394.8	6294.9
22.5°	7180.2	7112.2	7073.5	6919.2	6857.9	6862.5	6957.8	7069.0	7098.5	6973.7	6748.9
25°	8285.8	8179.1	8126.8	7899.9	7761.4	7641.1	7716.0	7859.0	7899.9	7745.5	7382.3
27.5°	9391.3	9398.1	9348.2	9075.8	8846.5	8626.3	8587.7	8737.5	8780.7	8605.8	8156.3
30°	10941.8	10780.5	10685.2	10358.3	10031.5	9722.7	9563.9	9625.1	9636.4	9427.6	8905.5
32.5°	12278.8	12238.0	12033.6	11747.6	11327.7	10844.1	10578.5	10480.9	10462.8	10165.3	9545.6
35°	13802.0	13779.4	13563.7	13223.2	12769.1	12097.3	11618.3	11339.0	11316.3	10898.6	10179.0
37.5°	15350.2	15350.2	15139.1	14766.9	14296.9	13457.0	12728.2	12285.6	12213.0	11668.2	10823.7
40°	16585.1	16510.2	16548.8	16392.2	15854.2	14962.0	13960.9	13318.5	13220.9	12567.1	11509.3
42.5°	17286.6	17261.6	17493.2	17667.9	17447.8	16735.0	15318.4	14437.6	14301.4	13556.9	12299.3
45°	17443.2	17416.0	17829.2	18469.3	18778.0	18485.2	16794.0	15615.9	15450.1	14592.0	13146.0
47.5°	17082.3	17027.8	17633.9	18644.1	19633.9	20149.1	18392.1	16893.8	16653.3	15599.9	14015.4
50°	15997.2	15945.0	16862.1	18203.7	19922.1	21279.6	20126.5	18249.1	17881.3	16680.4	14894.0
52.5°	13638.5	13663.6	15100.5	16943.9	19543.1	21983.4	21620.1	19677.0	19234.3	17786.0	15718.0
55°	10623.9	10678.4	12444.5	14474.0	18026.7	21876.7	22639.4	21148.0	20707.6	18825.7	16569.2
57.5°	7607.0	7847.6	9502.6	11511.6	15114.1	20185.5	22861.9	22546.3	22119.6	19960.7	17402.3
60°	4930.6	4973.7	6676.2	8701.2	11509.3	17179.9	22410.2	23606.5	23272.8	21118.5	18099.2
62.5°	3160.0	3189.5	4226.9	6086.0	8283.5	12710.1	20889.2	24067.3	23965.1	21883.5	18769.0
65°	2322.2	2299.6	2839.9	4022.6	5579.8	7838.6	17935.9	23844.9	24046.9	22362.5	19322.9
67.5°	1938.7	1906.9	2172.5	2785.3	4111.1	4451.6	13270.9	22398.8	23138.9	22308.0	19729.2
70°	1766.1	1738.9	1900.0	2068.0	3207.6	2980.6	6689.9	19472.6	20612.2	21688.3	19663.4
72.5°	1496.0	1448.3	1668.5	1836.5	2494.8	2286.0	2764.9	14957.5	16346.8	19701.9	18737.2
75°	1160.0	1128.2	1316.6	1616.3	1875.0	1784.3	1747.9	9082.5	10599.0	15236.7	16392.2
77.5°	919.4	876.3	1048.8	1259.9	1686.6	1346.1	1273.5	3911.3	5414.2	9727.2	12265.2
80°	692.4	653.7	796.8	996.6	1296.2	1014.7	824.0	1595.8	2040.8	4928.3	6167.8
82.5°	492.6	458.6	556.2	730.9	871.7	910.3	506.2	894.4	1005.6	1900.0	1377.9
85°	315.5	295.1	372.3	458.6	553.9	585.7	308.7	467.6	513.0	783.2	574.3
87.5°	172.5	140.7	199.8	213.4	256.6	233.8	147.6	170.3	183.9	283.7	242.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970833
 CATALOG NUMBER: NAV-SB6C-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6	4821.6
2.5°	4839.8	4846.6	4869.3	4876.1	4892.0	4912.4	4926.0	4939.7	4939.7	4953.3	4953.3
5°	4905.6	4921.5	4969.2	4994.2	5035.0	5075.9	5100.8	5130.3	5148.5	5157.6	5162.1
7.5°	5032.8	5057.8	5125.8	5169.0	5239.3	5296.1	5334.7	5375.5	5384.6	5409.5	5400.5
10°	5205.3	5234.8	5312.0	5393.7	5477.7	5548.0	5584.4	5613.9	5625.2	5629.8	5618.4
12.5°	5402.8	5445.9	5545.8	5645.7	5734.2	5795.5	5804.6	5797.8	5765.9	5738.8	5738.8
15°	5645.7	5684.2	5795.5	5904.4	5990.7	6002.1	5945.3	5909.0	5870.4	5863.6	5863.6
17.5°	5936.3	5956.7	6058.8	6165.5	6172.3	6133.7	6049.8	6015.7	5979.3	5954.4	5956.7
20°	6274.4	6267.7	6340.3	6385.7	6338.1	6220.0	6092.9	6036.1	5999.8	5970.3	5972.6
22.5°	6678.6	6626.3	6617.3	6605.9	6478.8	6231.4	6058.8	5986.2	5929.4	5888.5	5902.2
25°	7266.5	7066.8	6928.3	6851.1	6565.0	6170.1	5949.8	5788.7	5682.0	5611.6	5638.8
27.5°	8002.0	7666.1	7316.4	7128.1	6565.0	6045.2	5686.5	5425.4	5250.7	5178.0	5214.4
30°	8703.5	8351.6	7836.3	7461.7	6549.1	5840.9	5262.0	4898.8	4694.5	4621.8	4665.0
32.5°	9302.8	8919.1	8387.9	7827.2	6510.6	5509.5	4735.4	4333.6	4136.1	4049.8	4092.9
35°	9859.0	9450.3	8941.8	8229.0	6408.4	5023.6	4156.5	3850.0	3629.8	3491.4	3536.8
37.5°	10428.8	9942.9	9466.2	8592.3	6224.5	4456.2	3711.5	3450.6	3191.7	3005.6	3055.5
40°	11048.5	10467.3	10027.0	8807.9	5922.7	3915.9	3366.5	3128.2	2853.5	2656.0	2694.6
42.5°	11772.6	11096.1	10651.2	8919.1	5509.5	3532.3	3141.8	2907.9	2649.2	2488.0	2519.8
45°	12528.6	11788.5	11221.0	8916.9	5048.6	3352.9	3069.2	2837.6	2551.5	2383.5	2410.8
47.5°	13320.8	12512.7	11713.6	8771.5	4649.1	3377.9	3028.3	2685.5	2370.0	2206.5	2229.2
50°	14115.3	13304.9	12190.3	8499.2	4478.8	3323.4	2876.1	2472.1	2099.8	1952.2	1961.3
52.5°	14903.0	14147.0	12601.1	8110.9	4306.3	3121.3	2681.0	2195.1	1988.6	1886.4	1886.4
55°	15695.3	14980.2	13048.4	7545.7	3875.0	2885.3	2354.0	2090.7	1900.0	1807.0	1797.8
57.5°	16489.8	15942.7	13472.9	6980.5	3332.5	2594.7	2174.7	1963.6	1811.5	1732.0	1718.4
60°	17316.1	17043.7	13911.0	6460.6	2796.7	2222.4	2043.0	1861.5	1707.1	1618.6	1611.7
62.5°	18167.4	18256.0	14253.8	5790.9	2304.1	1995.4	1925.1	1738.9	1589.1	1505.0	1502.8
65°	19025.4	19425.0	14478.5	4862.5	1868.3	1779.7	1797.8	1604.9	1452.8	1380.2	1377.9
67.5°	19672.4	20267.2	14415.0	3679.7	1532.3	1575.4	1639.0	1464.2	1321.2	1264.4	1266.7
70°	19745.1	20167.3	13788.4	2519.8	1282.6	1375.7	1462.0	1325.7	1178.1	1137.3	1139.6
72.5°	18778.0	18805.3	12042.7	1645.8	1085.1	1207.7	1275.8	1185.0	1041.9	1001.1	998.9
75°	16242.4	15552.2	8842.0	1085.1	908.0	1037.4	1101.0	1037.4	898.9	908.0	876.3
77.5°	12306.0	11014.3	5368.7	771.8	758.2	871.7	958.0	912.6	794.5	892.2	785.5
80°	6340.3	5958.9	2394.9	576.6	599.3	696.9	787.7	728.7	628.8	599.3	547.0
82.5°	1452.8	1688.9	944.3	413.2	433.6	501.6	601.6	547.0	451.7	381.4	376.8
85°	508.5	556.2	417.7	258.8	254.2	313.2	408.6	365.5	306.5	245.2	258.8
87.5°	161.1	211.2	156.6	104.4	109.0	140.7	188.4	172.5	143.0	93.1	97.6
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)