

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: P970823

Luminaire Tested: **NAV-SB6C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42798.9 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

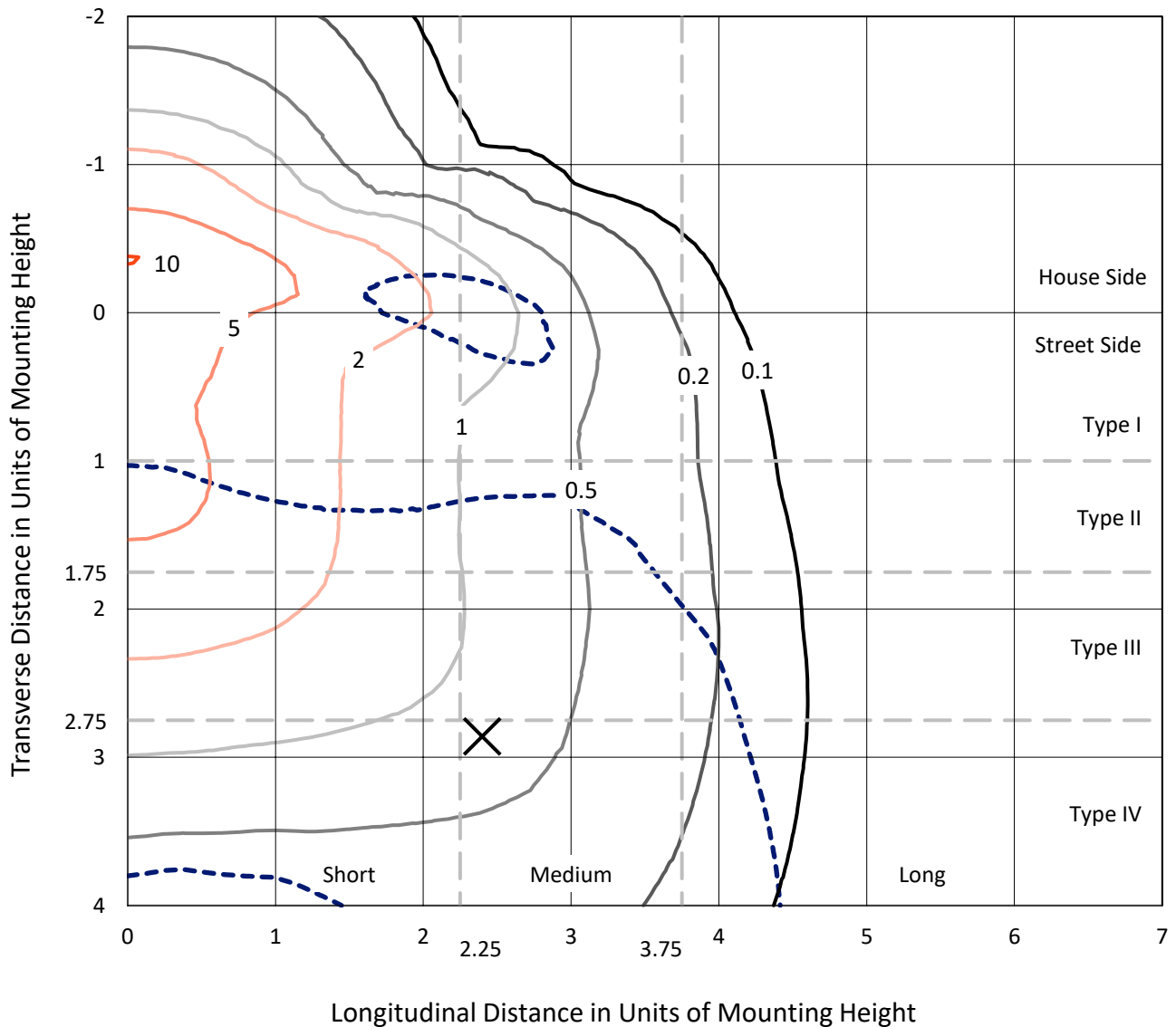
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

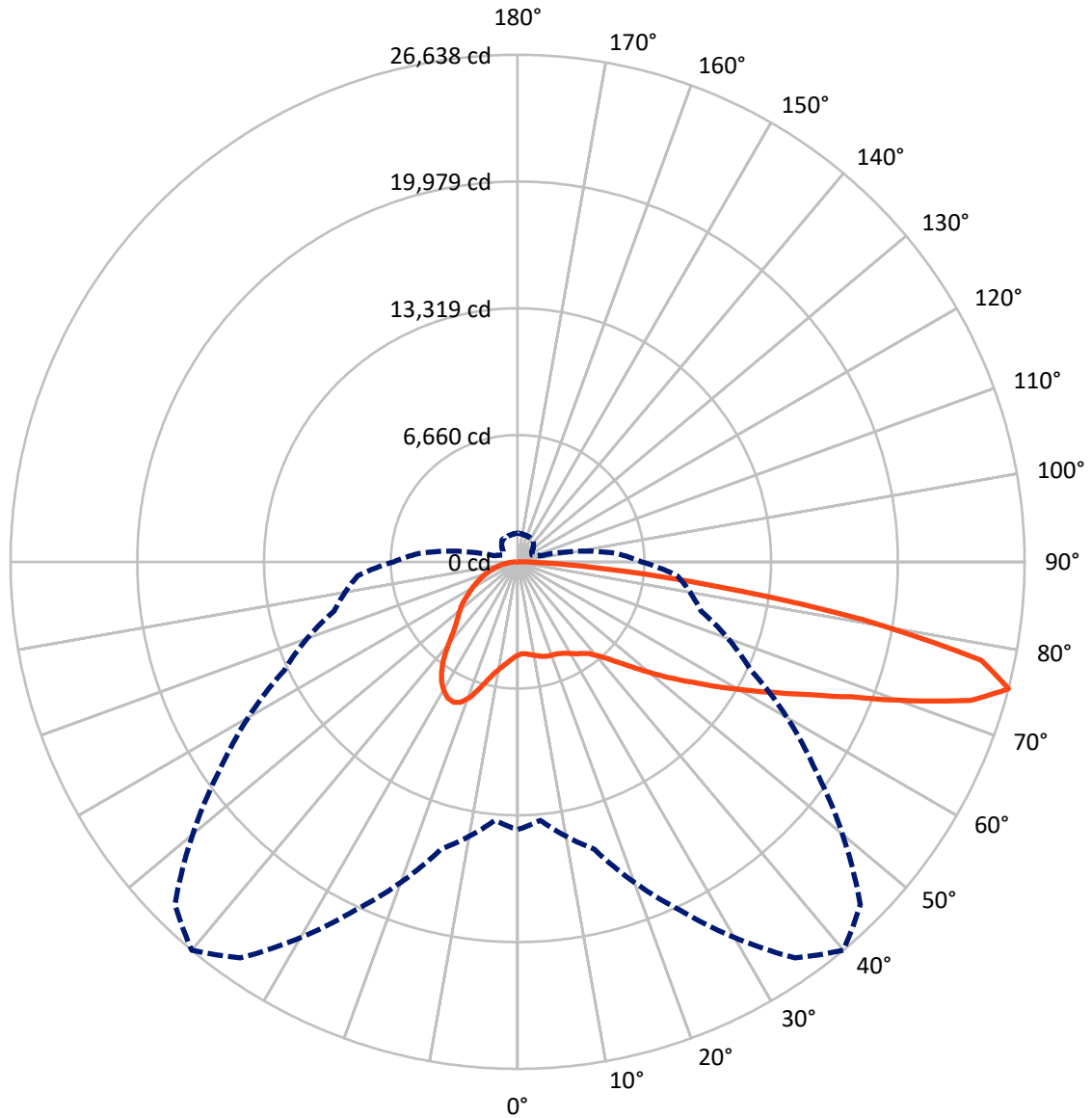
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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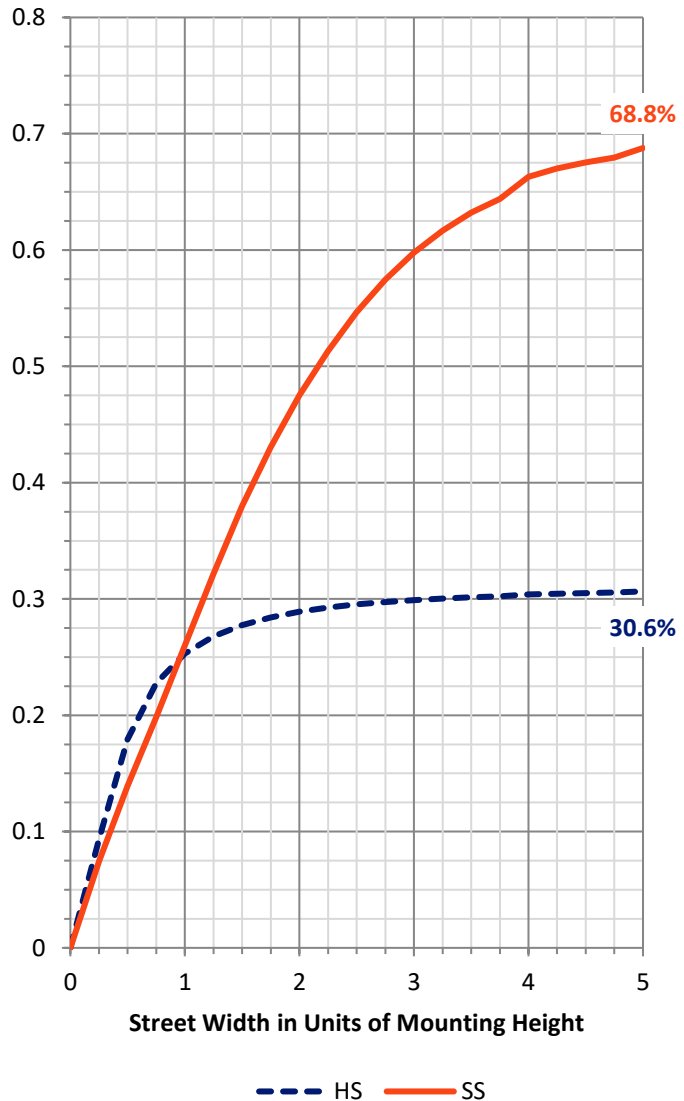
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13260.5	0.0	13260.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	29538.4	0.0	29538.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	42798.9	0.0	42798.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.5	1.1
10°-20°	1640.2	3.8
20°-30°	2994.9	7.0
30°-40°	4247.6	9.9
40°-50°	5735.5	13.4
50°-60°	7715.8	18.0
60°-70°	9793.1	22.9
70°-80°	8887.8	20.8
80°-90°	1295.6	3.0
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°	42798.9	100.0
0°-180°	42798.9	100.0

Coefficient of Utilization

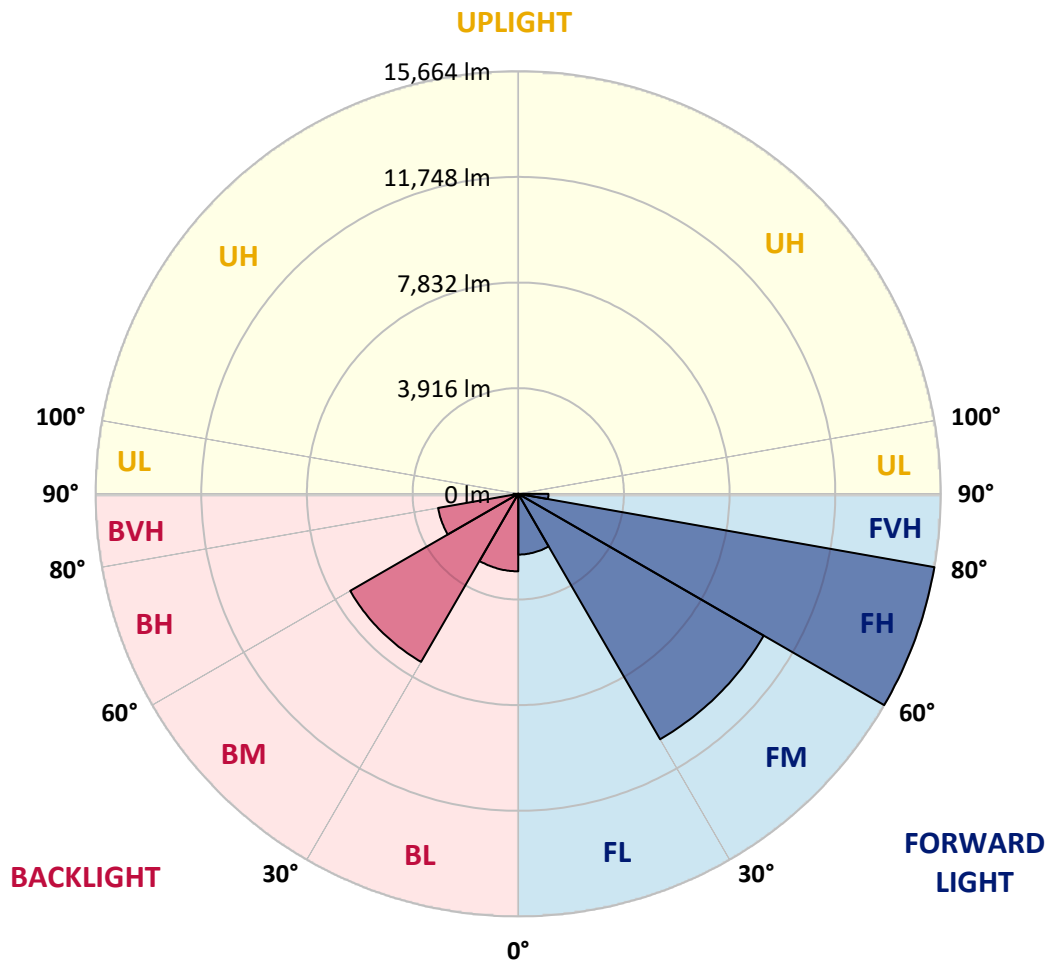


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.3	5.3			
FM (30°-60°)	10506.2	24.5			
FH (60°-80°)	15663.7	36.6			G5
FVH (80°-90°)	1117.2	2.6			G5
BL (0°-30°)	2872.4	6.7	B4/5000		
BM (30°-60°)	7192.6	16.8	B4/8500		
BH (60°-80°)	3017.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	178.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	4819.2	4846.4	4839.6	4830.5	4830.5	4832.8	4830.5	4846.4	4862.3	4878.2	4903.2
5°	4869.2	4896.4	4882.8	4871.4	4862.3	4860.0	4853.3	4851.0	4860.0	4880.5	4914.6
7.5°	4966.7	4994.0	4973.6	4953.1	4935.0	4925.8	4916.8	4903.2	4896.4	4907.7	4955.4
10°	5075.7	5103.0	5078.0	5041.7	5012.1	5000.8	4991.8	4978.1	4969.0	4975.9	5028.0
12.5°	5184.7	5211.9	5177.9	5127.9	5089.3	5082.6	5071.2	5066.7	5064.3	5062.1	5114.3
15°	5286.8	5309.5	5266.3	5207.4	5166.5	5155.1	5143.8	5150.6	5162.0	5175.6	5234.6
17.5°	5366.3	5388.9	5325.4	5248.2	5209.7	5205.1	5198.3	5220.9	5252.8	5286.8	5359.4
20°	5439.0	5461.6	5379.9	5275.5	5230.1	5230.1	5232.3	5280.0	5325.4	5375.3	5475.2
22.5°	5541.0	5559.2	5459.4	5316.4	5250.5	5255.1	5273.2	5320.9	5377.7	5445.7	5584.2
25°	5693.2	5706.8	5584.2	5393.5	5318.6	5332.3	5348.1	5370.8	5425.3	5504.8	5690.9
27.5°	5938.3	5949.6	5788.5	5529.7	5416.2	5439.0	5461.6	5445.7	5470.7	5538.8	5777.1
30°	6283.4	6290.1	6085.8	5743.1	5581.9	5593.2	5597.8	5532.0	5484.3	5538.8	5838.4
32.5°	6691.9	6689.7	6446.7	6001.9	5770.3	5759.0	5720.4	5591.0	5479.8	5527.4	5892.9
35°	7325.3	7300.3	6987.0	6365.0	5983.7	5913.3	5822.5	5656.9	5502.5	5516.0	5940.6
37.5°	8374.0	8296.9	7863.3	6959.9	6301.5	6122.2	5988.3	5763.5	5552.4	5511.5	5997.3
40°	9556.7	9459.1	8982.4	7774.7	6778.2	6489.9	6274.2	5915.6	5634.1	5532.0	6081.3
42.5°	10959.5	10821.0	10308.0	8734.9	7382.0	6964.4	6639.7	6108.6	5754.5	5597.8	6194.8
45°	12682.4	12498.5	11772.2	9817.8	8142.5	7586.3	7152.8	6401.4	5938.3	5724.9	6365.0
47.5°	14423.6	14468.9	13436.1	11057.2	9055.1	8353.5	7795.1	6841.8	6206.2	5929.2	6639.7
50°	16273.6	16305.4	15091.0	12430.5	10090.1	9220.7	8517.0	7334.4	6578.4	6219.8	7050.6
52.5°	17717.3	17721.8	16593.6	13867.4	11168.4	10174.2	9295.6	7897.3	7009.8	6605.7	7597.7
55°	18620.8	18609.4	17646.9	15227.1	12407.8	11175.2	10158.3	8537.4	7536.4	7059.7	8285.5
57.5°	19276.8	19242.7	18373.3	16396.2	13729.0	12357.8	11134.4	9263.8	8158.4	7600.0	9191.2
60°	19526.5	19506.1	18865.9	17406.3	15118.1	13665.4	12260.2	10076.5	8864.3	8237.8	10355.7
62.5°	19621.9	19660.4	19349.4	18384.7	16605.0	15113.6	13497.4	11048.1	9658.8	8959.6	11583.8
65°	19957.8	20028.2	19964.6	19664.9	18284.8	16809.3	15138.6	12203.4	10525.9	9733.7	12866.3
67.5°	20622.9	20693.3	20720.5	21197.2	20336.9	18922.6	17186.2	13642.6	11540.7	10537.3	13831.0
70°	20607.0	20586.6	21067.8	22416.2	22906.5	21848.7	19946.4	15413.2	12750.6	11204.7	13953.6
72.5°	18757.0	18593.5	19730.8	22402.6	25044.8	24904.1	23317.4	17696.8	13794.8	11286.4	12108.1
75°	14071.7	13635.9	15644.8	20189.3	25401.2	26638.4	25460.3	19113.4	13547.3	9972.1	8426.2
77.5°	6017.8	5579.7	7947.2	14945.6	22734.0	24901.9	23494.4	16675.4	10814.3	6594.3	4138.2
80°	1575.4	1573.1	2401.7	6776.0	15460.9	18389.2	16132.9	10768.9	6178.9	2356.3	1141.8
82.5°	651.5	635.6	883.0	2635.5	7554.6	10319.4	8421.7	4803.4	2231.4	637.9	379.0
85°	242.9	240.7	429.1	910.3	2665.0	4256.2	3080.4	1228.1	556.2	311.0	170.3
87.5°	68.1	65.8	93.1	315.5	649.2	985.1	526.6	202.0	156.6	122.6	49.9
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°	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1	4894.1
2.5°	4910.0	4921.3	4941.7	4957.6	4978.1	5000.8	5032.5	5053.0	5073.4	5087.1	5078.0
5°	4930.5	4955.4	5007.6	5059.8	5121.1	5177.9	5243.7	5291.4	5329.9	5341.3	5345.9
7.5°	4975.9	5016.7	5105.2	5193.8	5291.4	5384.4	5479.8	5561.4	5627.4	5652.3	5654.5
10°	5055.3	5109.7	5234.6	5359.4	5488.9	5631.9	5754.5	5872.4	5965.5	6004.1	6006.4
12.5°	5155.1	5223.3	5386.7	5559.2	5738.6	5936.1	6095.0	6240.2	6356.0	6408.2	6408.2
15°	5284.6	5373.0	5581.9	5813.5	6076.8	6351.4	6553.4	6714.7	6844.0	6907.6	6903.1
17.5°	5425.3	5543.3	5806.6	6156.3	6533.0	6893.9	7130.0	7248.1	7382.0	7443.3	7441.1
20°	5561.4	5706.8	6083.6	6592.1	7093.7	7477.4	7668.0	7699.8	7708.9	7715.7	7733.8
22.5°	5702.2	5897.4	6430.8	7141.4	7679.4	7945.0	7972.2	7836.0	7645.4	7556.8	7581.8
25°	5856.5	6115.4	6884.9	7747.5	8183.3	8215.1	8006.3	7674.9	7313.9	7148.2	7173.2
27.5°	6006.4	6367.3	7429.7	8326.4	8546.6	8267.3	7817.9	7348.0	6912.1	6737.3	6757.8
30°	6156.3	6655.6	8031.3	8832.5	8712.2	8137.9	7520.5	6996.1	6558.1	6374.2	6394.6
32.5°	6308.4	6991.6	8723.6	9198.0	8682.8	7863.3	7150.5	6601.1	6215.3	6022.3	6047.3
35°	6480.9	7404.7	9379.6	9397.8	8485.3	7459.2	6662.4	6129.0	5793.0	5638.6	5672.8
37.5°	6705.6	7929.1	9958.5	9447.7	8140.2	6866.8	6056.3	5570.6	5293.6	5223.3	5273.2
40°	6984.8	8560.2	10401.1	9368.3	7629.5	6147.1	5393.5	5005.4	4848.7	4864.5	4919.1
42.5°	7348.0	9266.1	10712.1	9164.0	6919.0	5404.8	4812.4	4639.9	4714.8	4778.3	4837.4
45°	7820.1	9999.3	10905.1	8816.6	6115.4	4776.1	4469.6	4510.5	4567.2	4574.1	4619.5
47.5°	8424.0	10741.6	11032.2	8292.2	5295.9	4333.4	4251.7	4260.8	4249.4	4201.8	4238.1
50°	9177.5	11463.5	11145.6	7597.7	4599.0	4056.4	3947.5	3915.7	3759.1	3604.7	3625.2
52.5°	10035.7	12126.3	11193.3	6735.1	4056.4	3824.9	3647.9	3448.1	3155.3	3107.6	3123.5
55°	10989.0	12739.2	11070.7	5675.0	3600.2	3527.5	3259.7	3019.1	2987.4	2946.5	2953.2
57.5°	12128.6	13399.8	10821.0	4492.4	3132.6	3180.3	2919.2	2946.5	2889.7	2826.1	2814.8
60°	13374.8	14083.1	10382.9	3414.1	2649.1	2746.7	2830.6	2828.4	2812.5	2760.3	2742.2
62.5°	14496.2	14532.6	9520.4	2615.1	2224.6	2410.7	2640.0	2637.7	2624.1	2594.6	2583.2
65°	15163.5	14464.4	8081.2	2058.9	1875.0	2133.8	2381.2	2399.4	2401.7	2399.4	2399.4
67.5°	15045.6	13667.7	6106.3	1639.0	1586.7	1852.3	2124.7	2149.7	2167.9	2172.4	2176.9
70°	13710.8	11917.5	3981.6	1307.5	1330.2	1604.8	1881.8	1906.8	1922.7	1940.8	1950.0
72.5°	10687.2	8762.2	2279.1	1057.8	1105.5	1391.5	1641.2	1670.7	1679.8	1713.8	1727.4
75°	6512.6	5152.9	1230.3	833.1	908.0	1189.5	1402.8	1436.9	1452.8	1493.6	1498.2
77.5°	3096.3	2231.4	701.4	649.2	730.9	971.6	1184.9	1223.5	1180.4	1203.1	1184.9
80°	1046.4	828.5	442.7	494.9	558.4	758.2	948.8	987.5	896.7	892.1	883.0
82.5°	365.5	336.0	281.5	329.1	360.9	542.5	717.3	767.2	667.4	665.1	633.3
85°	143.0	136.2	156.6	179.4	215.7	333.7	472.1	497.1	410.8	331.4	326.9
87.5°	29.5	31.8	38.5	40.9	65.8	115.7	170.3	208.8	165.7	140.7	129.4
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)