

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: P968680

Luminaire Tested: **NAV-SB5C-722-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-722-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

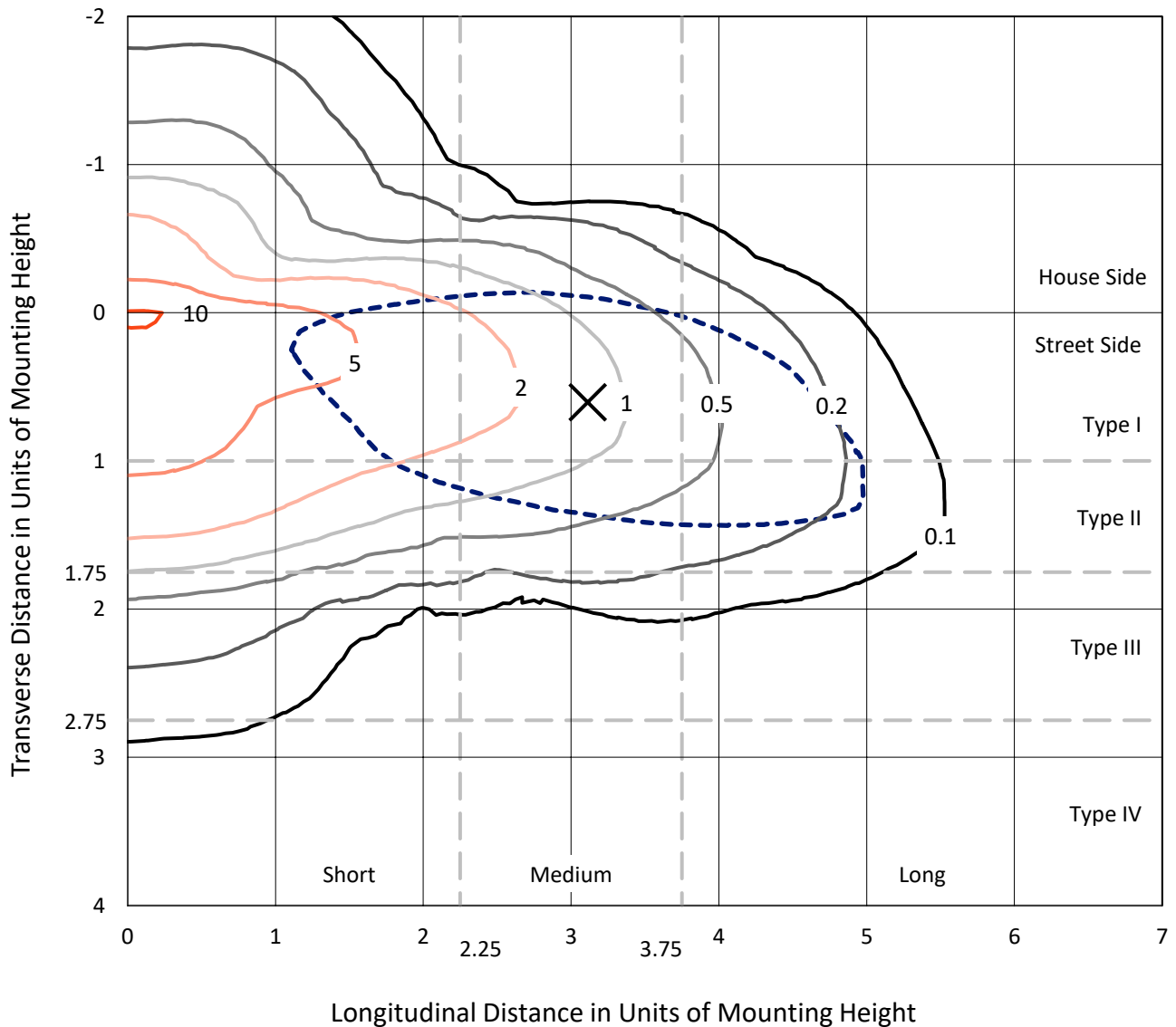
Lumens per Lamp: N/A  
Luminaire Lumens: 31838.6 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

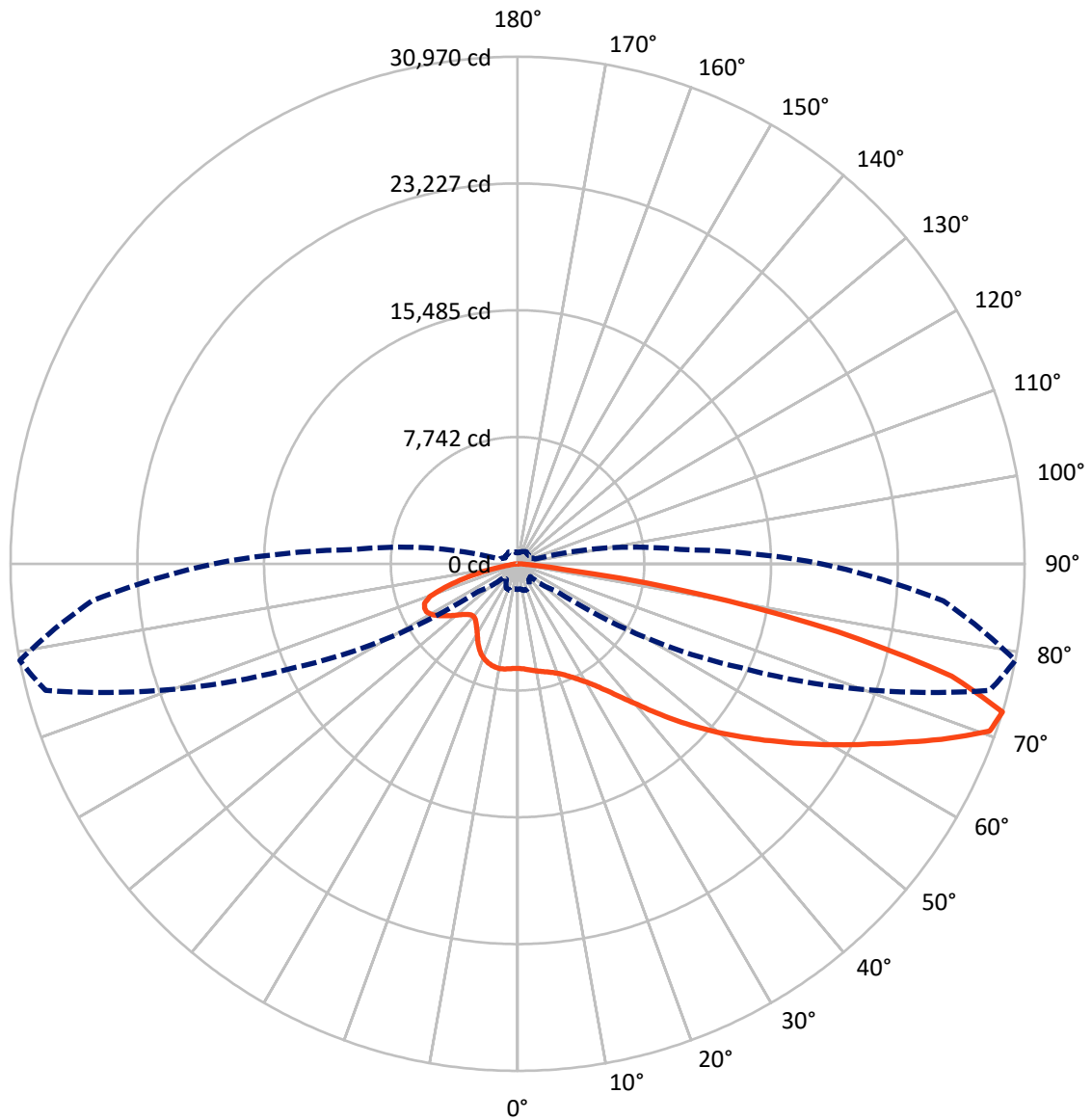
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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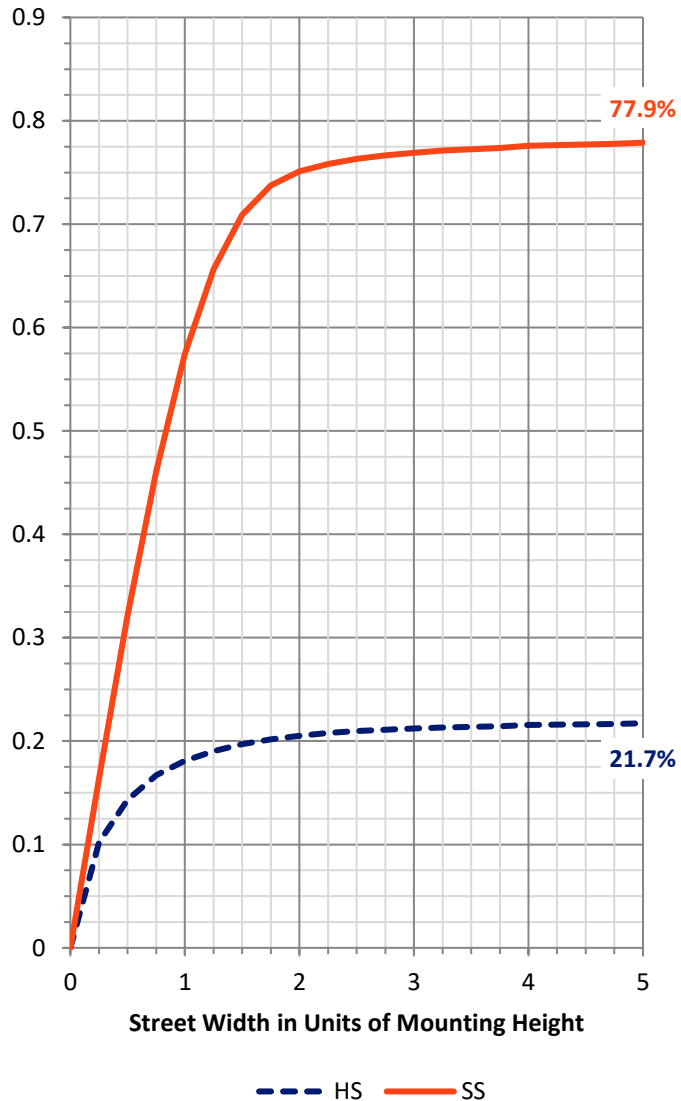
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7006.2	0.0	7006.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	24832.3	0.0	24832.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	31838.6	0.0	31838.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.1	1.8
10°-20°	1516.8	4.8
20°-30°	2447.5	7.7
30°-40°	3673.3	11.5
40°-50°	5210.8	16.4
50°-60°	6580.5	20.7
60°-70°	6683.4	21.0
70°-80°	4555.1	14.3
80°-90°	591.0	1.9
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°	31838.6	100.0
0°-180°	31838.6	100.0

**Coefficient of Utilization**

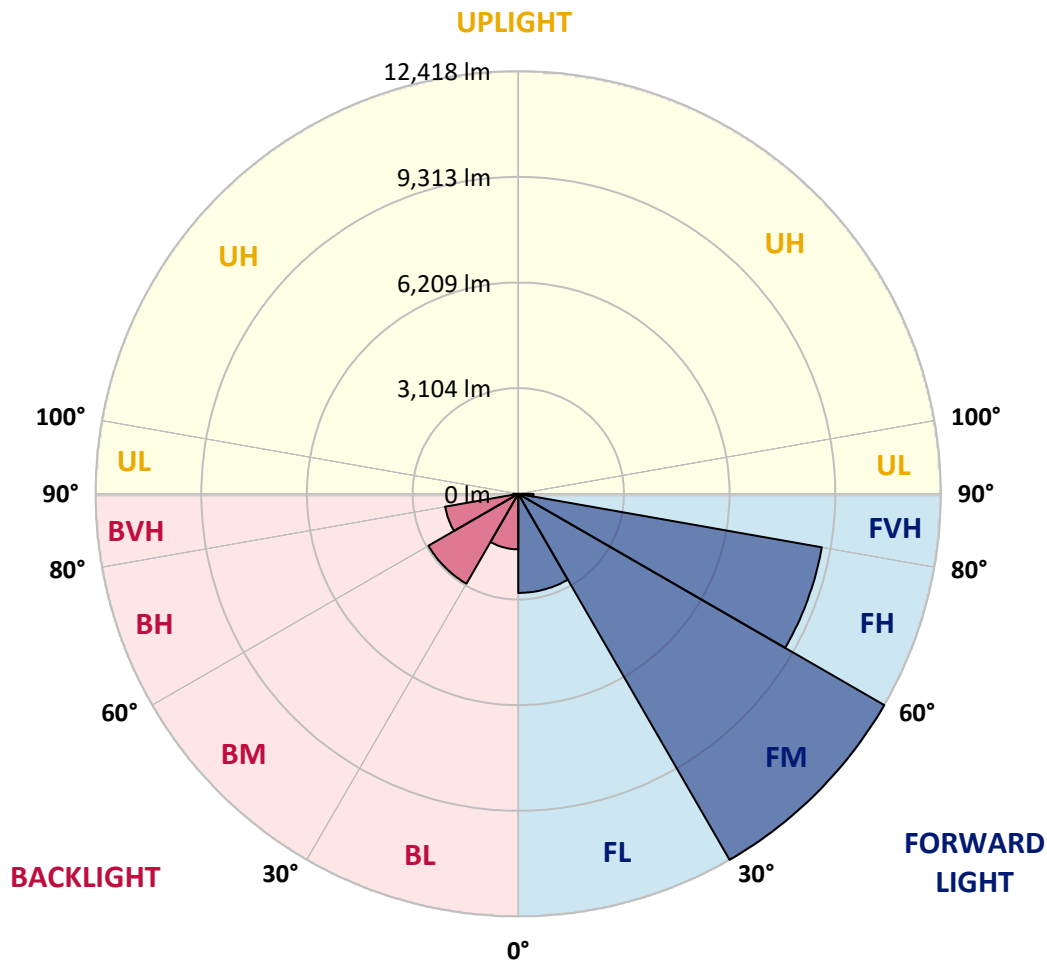


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.5	9.1			
FM (30°-60°)	12417.7	39.0			
FH (60°-80°)	9057.0	28.4			G4/12000
FVH (80°-90°)	445.2	1.4			G3/500
BL (0°-30°)	1632.0	5.1	B3/2500		
BM (30°-60°)	3047.0	9.6	B3/5000		
BH (60°-80°)	2181.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	145.8	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-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3
2.5°	6394.7	6364.3	6382.9	6376.1	6384.5	6394.7	6398.0	6403.1	6419.9	6418.2	6416.5
5°	6381.1	6350.9	6376.1	6367.7	6389.6	6413.2	6433.4	6452.0	6478.8	6490.6	6473.8
7.5°	6352.5	6332.3	6357.6	6382.9	6423.3	6458.6	6487.3	6529.4	6568.1	6574.9	6586.6
10°	6185.8	6170.7	6229.6	6295.2	6406.5	6502.4	6564.7	6613.6	6655.7	6662.4	6679.3
12.5°	6012.3	5993.8	6059.5	6148.8	6329.0	6502.4	6633.8	6697.8	6734.9	6756.7	6782.0
15°	5983.7	5968.6	6005.6	6083.1	6233.0	6457.0	6681.0	6798.8	6830.8	6856.1	6866.2
17.5°	6121.8	6093.2	6108.4	6135.3	6222.9	6414.9	6718.1	6913.3	6962.2	6989.2	6989.2
20°	6441.8	6401.4	6377.9	6323.9	6308.8	6421.6	6714.7	7051.5	7115.4	7149.2	7157.6
22.5°	6867.9	6841.0	6790.4	6654.0	6505.8	6504.1	6778.6	7228.3	7347.9	7379.9	7359.7
25°	7383.3	7342.8	7278.8	7093.6	6809.0	6667.5	6886.5	7454.0	7654.4	7662.8	7603.9
27.5°	7976.0	7915.5	7827.8	7583.7	7199.7	6923.5	7051.5	7713.3	8006.4	8003.0	7881.7
30°	8600.9	8540.2	8447.6	8151.2	7667.8	7268.7	7280.5	7992.8	8424.1	8405.5	8198.4
32.5°	9057.3	9011.8	8993.2	8764.3	8206.8	7676.3	7543.3	8302.8	8939.3	8922.5	8632.9
35°	9407.6	9348.6	9370.6	9254.3	8794.5	8132.7	7864.9	8671.6	9565.9	9564.2	9203.8
37.5°	9754.5	9702.3	9720.8	9643.3	9338.6	8712.0	8257.3	9122.9	10342.2	10379.4	9894.3
40°	10071.1	10015.6	10089.7	10017.2	9761.3	9328.4	8703.6	9633.3	11241.6	11312.3	10729.6
42.5°	10261.4	10217.6	10340.6	10342.2	10128.3	9848.8	9193.6	10195.8	12282.4	12440.7	11757.0
45°	10327.1	10311.9	10497.2	10536.0	10453.5	10150.3	9634.9	10808.7	13404.0	13686.9	12927.4
47.5°	10256.4	10227.8	10483.7	10626.9	10692.6	10291.7	10000.4	11472.3	14549.3	14963.6	14203.9
50°	9899.3	9843.8	10224.4	10525.8	10759.9	10384.4	10369.2	12238.6	15851.1	16304.1	15487.3
52.5°	9257.7	9215.6	9648.4	10172.2	10611.7	10429.9	10783.5	13075.6	17087.3	17673.3	16802.6
55°	8437.5	8381.9	8858.6	9542.3	10242.9	10414.7	11197.8	14012.0	18545.6	19140.1	18161.7
57.5°	7137.4	7026.2	7629.1	8437.5	9641.7	10396.2	11628.9	14943.3	20027.7	20740.1	19611.7
60°	5241.0	5076.0	5815.3	6773.6	8466.1	10216.0	12162.9	15987.4	21806.2	22447.8	21194.8
62.5°	3051.6	2955.7	3439.0	4333.3	6381.1	9155.0	12462.6	17201.8	23554.3	24227.9	22751.0
65°	2369.6	2342.6	2384.8	2453.7	3551.8	6854.4	11538.0	18385.7	25777.3	26248.9	24372.8
67.5°	2167.5	2147.3	2165.8	2036.2	1802.1	3817.9	9128.0	18685.4	28158.7	28445.0	25792.5
70°	1926.7	1903.1	1963.7	1852.6	1418.1	1736.4	5897.8	17597.5	30053.4	30590.6	26872.0
72.5°	1569.6	1542.6	1684.2	1633.6	1194.0	1114.9	2962.4	15012.4	29854.7	30969.6	26099.1
75°	1205.8	1190.6	1359.0	1401.2	973.4	877.4	1421.4	11159.1	26272.5	27395.8	22493.3
77.5°	936.3	924.6	1010.4	1163.8	784.8	680.4	874.0	7078.4	19798.7	19995.7	15500.8
80°	702.3	668.6	747.7	901.0	611.3	496.8	592.9	4127.8	12514.8	11344.3	6746.7
82.5°	439.5	422.7	488.4	601.3	431.1	341.8	385.7	2280.3	5015.3	2953.9	1301.9
85°	250.9	244.2	266.1	343.6	234.1	197.0	220.6	1007.1	916.1	629.9	392.4
87.5°	101.1	97.7	121.3	153.2	85.9	72.5	77.5	242.5	202.1	187.0	129.7
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°	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3	6391.3
2.5°	6409.8	6409.8	6386.3	6349.2	6307.0	6280.2	6236.3	6224.5	6179.1	6165.6	6187.5
5°	6487.3	6473.8	6401.4	6297.0	6153.8	6022.5	5877.7	5786.6	5658.7	5613.2	5646.9
7.5°	6585.0	6547.9	6423.3	6194.3	5894.5	5599.8	5293.2	5060.8	4838.5	4759.4	4769.4
10°	6674.2	6622.0	6409.8	6009.0	5490.3	4980.0	4491.5	4149.7	3890.4	3784.2	3807.9
12.5°	6763.5	6667.5	6320.6	5700.7	4916.0	4223.8	3703.4	3437.3	3277.3	3149.3	3191.4
15°	6847.7	6712.9	6182.5	5288.2	4286.1	3583.8	3199.8	2987.7	2859.6	2775.5	2790.6
17.5°	6945.4	6751.7	5975.3	4764.4	3686.6	3140.9	2827.7	2699.6	2674.4	2664.3	2671.0
20°	7081.8	6787.0	5702.5	4178.3	3245.4	2787.3	2625.5	2613.8	2612.1	2607.1	2623.9
22.5°	7228.3	6829.2	5342.1	3646.1	2869.8	2566.6	2538.0	2514.4	2499.3	2497.6	2516.1
25°	7401.7	6842.6	4890.7	3210.0	2549.8	2462.2	2428.5	2393.2	2383.0	2383.0	2393.2
27.5°	7570.1	6797.2	4365.3	2831.0	2369.6	2366.2	2322.4	2310.7	2308.9	2314.0	2327.5
30°	7738.5	6711.3	3843.2	2480.7	2265.1	2265.1	2250.0	2258.4	2265.1	2282.0	2293.7
32.5°	7966.0	6620.4	3407.0	2221.4	2174.2	2157.4	2172.5	2189.4	2196.1	2218.0	2236.5
35°	8299.4	6556.3	3060.0	2079.9	2079.9	2058.0	2066.4	2063.0	2048.0	2037.8	2061.4
37.5°	8740.7	6552.9	2773.8	2014.2	2000.8	1997.4	1999.1	1977.1	1918.2	1847.5	1849.2
40°	9271.1	6643.9	2553.2	1968.7	1958.7	1978.9	1968.7	1909.8	1748.1	1625.1	1621.9
42.5°	9983.5	6903.3	2411.7	1913.2	1943.5	1968.7	1928.3	1724.6	1615.1	1532.6	1529.2
45°	10822.3	7324.3	2339.3	1854.2	1914.9	1945.1	1749.8	1660.6	1573.0	1473.6	1466.9
47.5°	11772.1	7854.8	2322.4	1798.7	1850.8	1869.4	1674.0	1633.6	1534.2	1426.5	1418.1
50°	12806.1	8483.0	2367.9	1733.0	1758.3	1694.2	1648.8	1611.7	1509.0	1402.9	1391.1
52.5°	13875.5	9175.2	2458.9	1643.7	1665.6	1594.9	1638.7	1606.7	1493.8	1350.6	1340.6
55°	14926.5	9872.4	2546.4	1539.3	1571.3	1505.6	1610.1	1586.5	1424.7	1263.1	1254.7
57.5°	15994.2	10566.2	2632.3	1446.7	1480.3	1419.7	1564.6	1532.6	1347.3	1182.2	1178.9
60°	17104.1	11239.9	2672.7	1357.4	1381.0	1340.6	1495.5	1439.9	1259.7	1099.7	1094.7
62.5°	18143.2	11800.7	2607.1	1268.1	1283.3	1266.5	1404.6	1330.4	1172.2	1007.1	1005.4
65°	19185.6	12134.2	2405.0	1180.6	1184.0	1175.6	1276.5	1212.6	1069.4	926.3	916.1
67.5°	20130.5	12321.1	2083.3	1086.3	1077.9	1074.5	1157.0	1084.6	970.1	845.4	835.4
70°	20330.9	11846.2	1591.5	975.1	975.1	966.7	1025.6	951.5	860.6	759.5	756.1
72.5°	18569.2	9965.0	1130.1	848.8	862.2	845.4	894.3	832.0	749.5	682.0	661.8
75°	14973.6	7307.4	821.8	719.1	742.7	714.1	759.5	715.8	645.0	643.3	579.3
77.5°	10288.3	4518.5	596.1	592.9	609.7	572.6	624.8	601.3	537.2	508.6	476.6
80°	4390.5	1802.1	434.5	458.1	458.1	424.5	485.0	491.8	436.2	422.7	422.7
82.5°	874.0	512.0	304.8	315.0	296.4	286.3	343.6	380.6	525.4	584.4	586.1
85°	262.7	188.6	183.6	171.8	151.6	153.2	202.1	382.3	471.6	269.5	232.4
87.5°	72.5	47.2	48.8	38.7	32.0	42.1	69.1	289.7	158.3	67.3	57.3
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)