

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: P966758

Luminaire Tested: **NAV-SB4C-760-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966758
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-SB4C-760-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 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: 32351 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

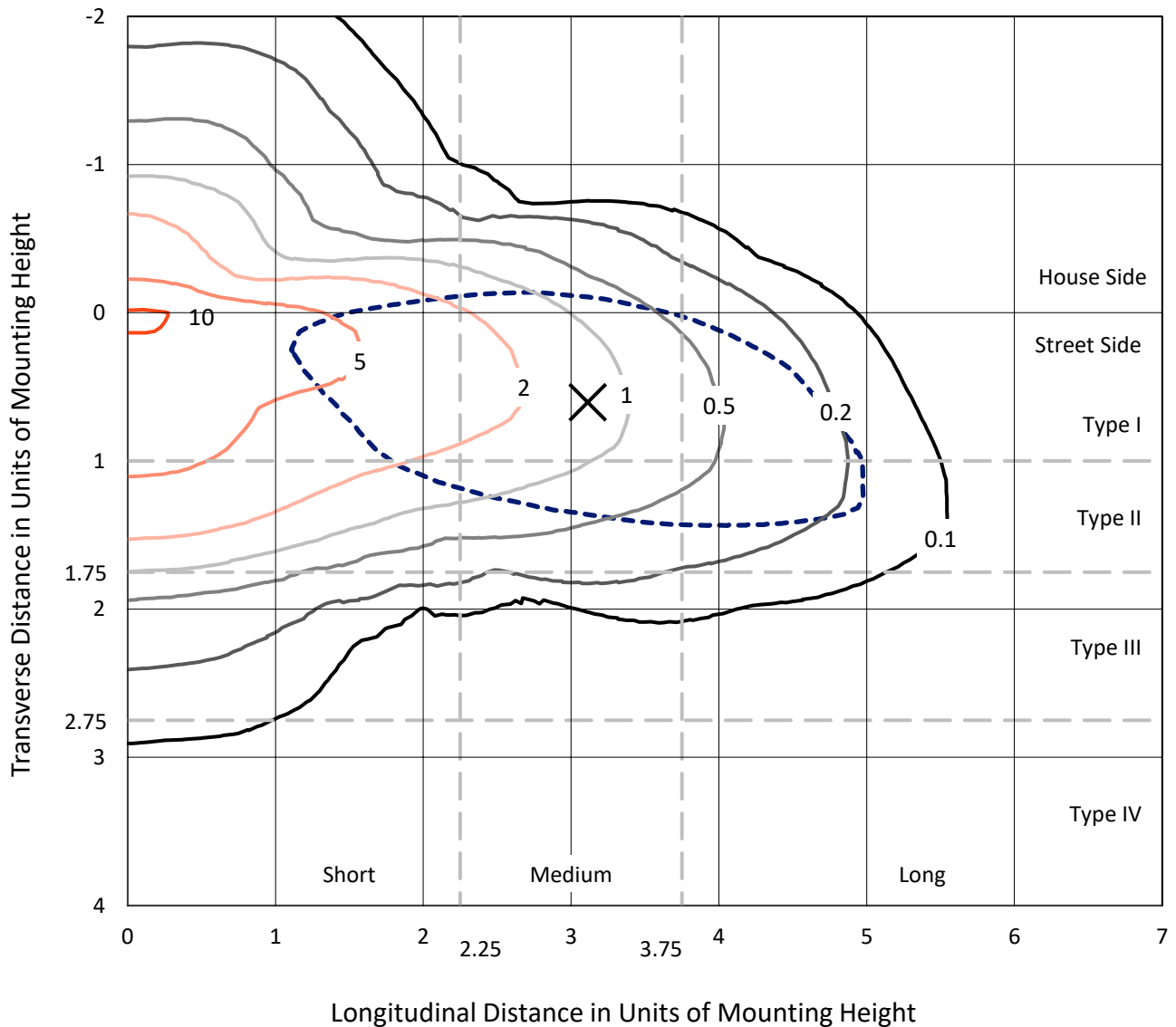
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

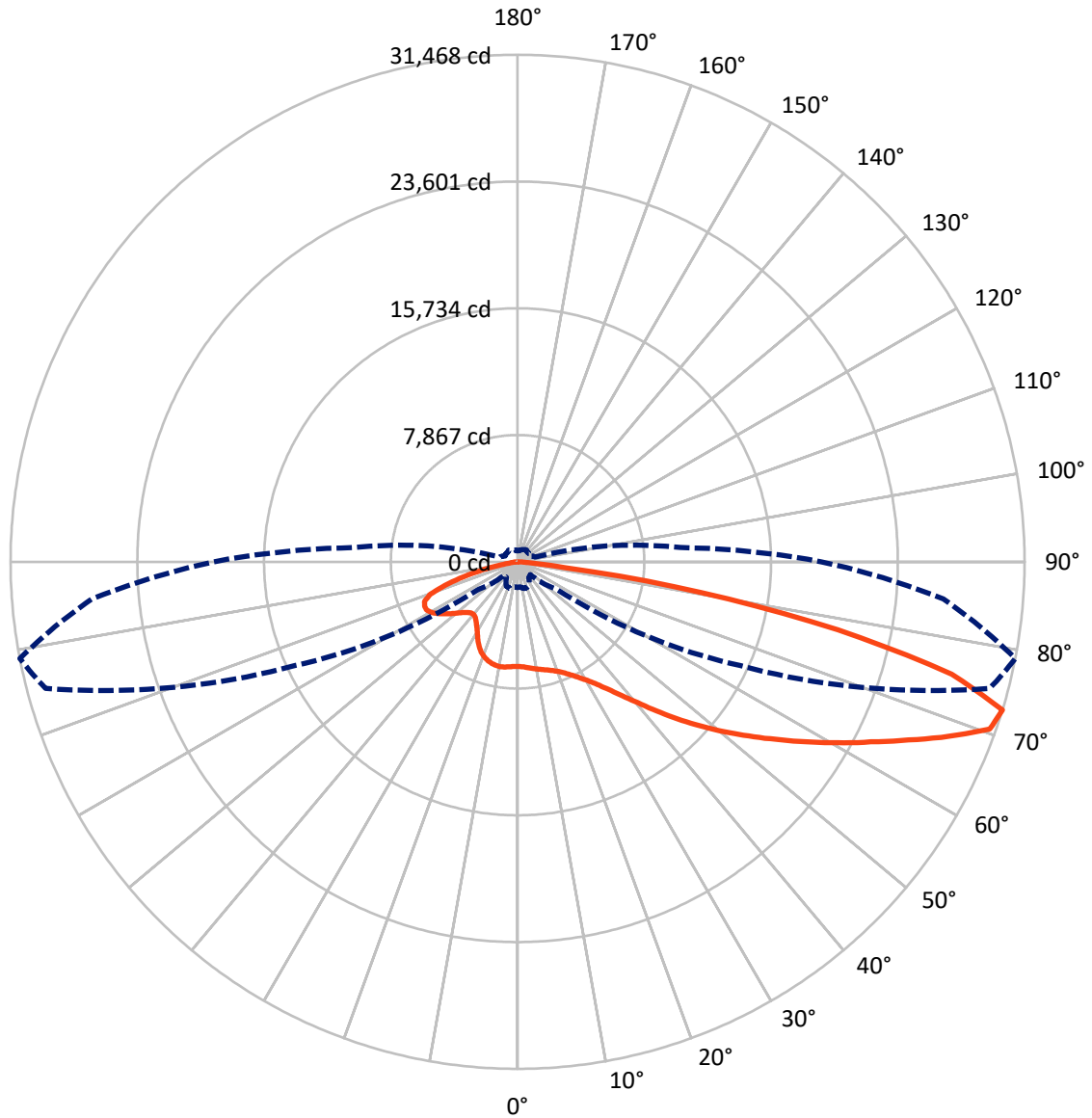
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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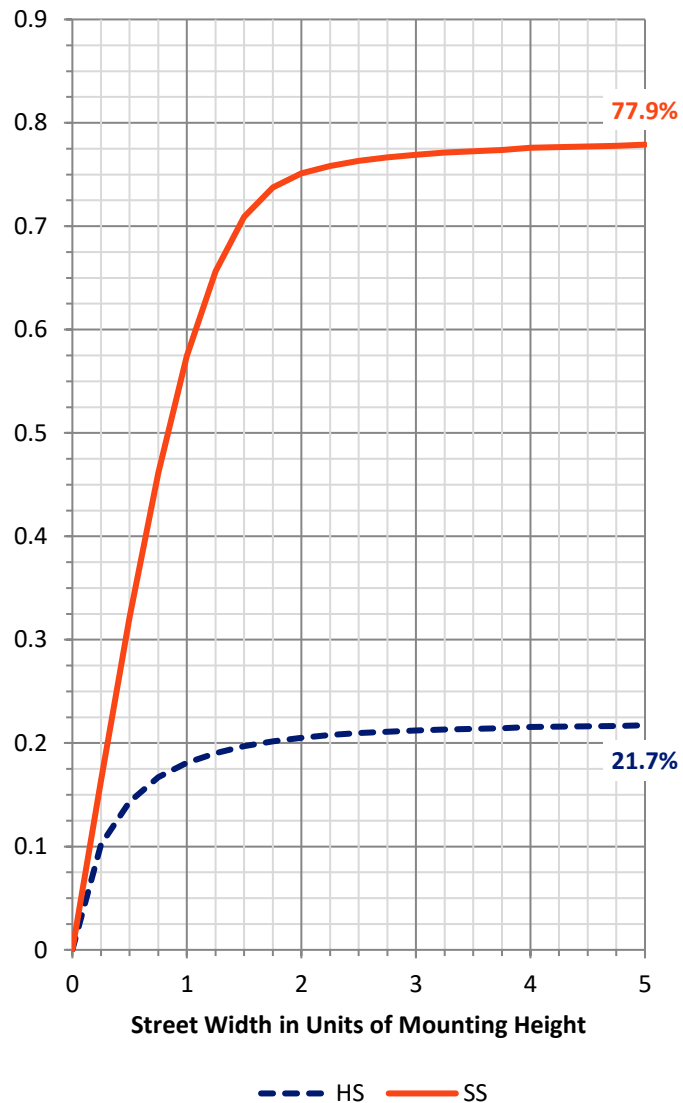
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7119.0	0.0	7119.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	25232.0	0.0	25232.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	32351.0	0.0	32351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.5	1.8
10°-20°	1541.2	4.8
20°-30°	2486.9	7.7
30°-40°	3732.4	11.5
40°-50°	5294.7	16.4
50°-60°	6686.5	20.7
60°-70°	6791.0	21.0
70°-80°	4628.4	14.3
80°-90°	600.5	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°	32351.0	100.0
0°-180°	32351.0	100.0

Coefficient of Utilization

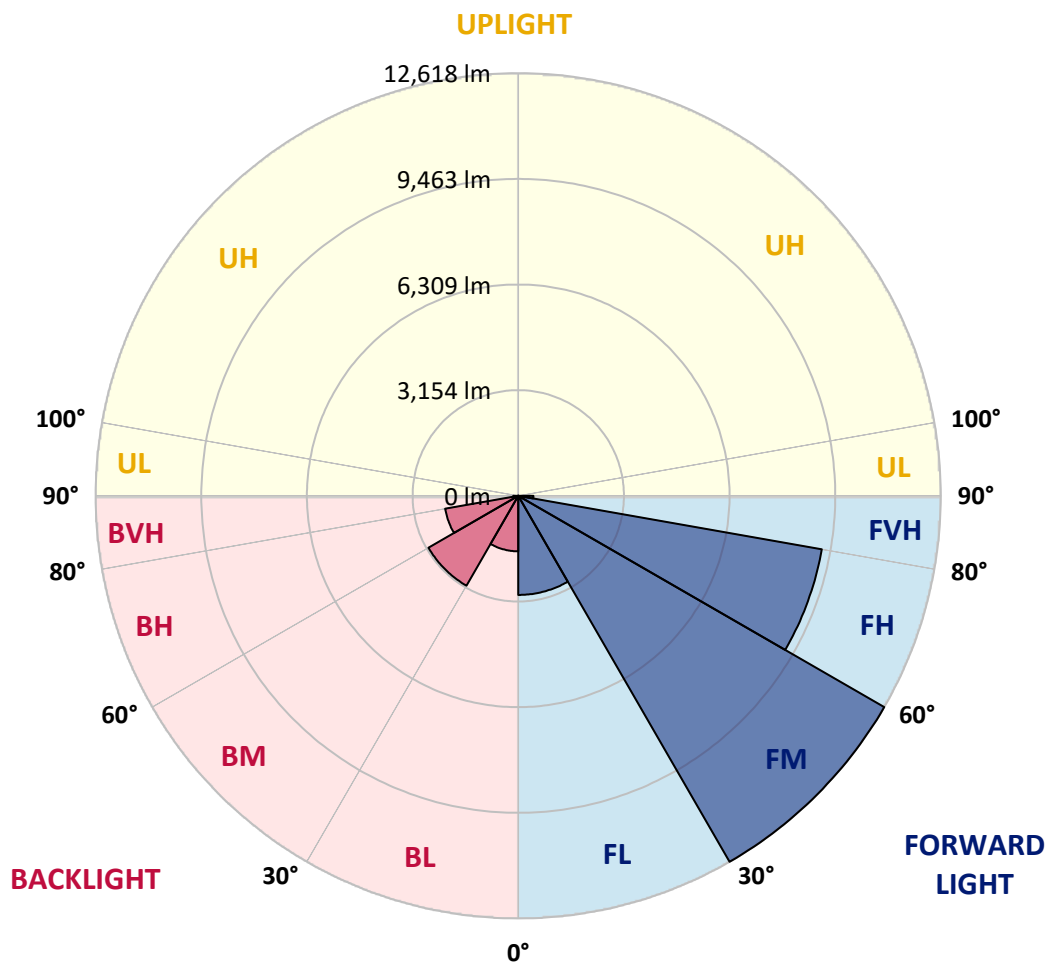


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.3	9.1			
FM (30°-60°)	12617.6	39.0			
FH (60°-80°)	9202.8	28.4			G4/12000
FVH (80°-90°)	452.4	1.4			G3/500
BL (0°-30°)	1658.2	5.1	B3/2500		
BM (30°-60°)	3096.0	9.6	B3/5000		
BH (60°-80°)	2216.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	148.1	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°	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2
2.5°	6497.6	6466.8	6485.6	6478.7	6487.3	6497.6	6501.0	6506.2	6523.3	6521.6	6519.8
5°	6483.9	6453.1	6478.7	6470.2	6492.5	6516.4	6536.9	6555.8	6583.2	6595.2	6578.0
7.5°	6454.8	6434.2	6460.0	6485.6	6526.7	6562.7	6591.7	6634.5	6673.9	6680.6	6692.6
10°	6285.4	6270.0	6329.9	6396.6	6509.6	6607.2	6670.4	6720.0	6762.8	6769.7	6786.8
12.5°	6109.1	6090.3	6157.1	6247.8	6430.8	6607.2	6740.6	6805.6	6843.3	6865.6	6891.2
15°	6080.1	6064.6	6102.3	6181.1	6333.3	6560.9	6788.5	6908.3	6940.8	6966.5	6976.8
17.5°	6220.4	6191.3	6206.7	6234.0	6323.0	6518.1	6826.2	7024.6	7074.2	7101.6	7101.6
20°	6545.5	6504.4	6480.5	6425.7	6410.3	6524.9	6822.7	7165.0	7230.0	7264.2	7272.8
22.5°	6978.4	6951.0	6899.7	6761.1	6610.5	6608.8	6887.8	7344.6	7466.2	7498.7	7478.1
25°	7502.1	7461.0	7396.0	7207.8	6918.5	6774.8	6997.3	7573.9	7777.6	7786.1	7726.2
27.5°	8104.5	8042.9	7953.9	7705.7	7315.5	7034.9	7165.0	7837.5	8135.2	8131.8	8008.6
30°	8739.4	8677.8	8583.6	8282.4	7791.3	7385.7	7397.7	8121.6	8559.7	8540.8	8330.4
32.5°	9203.1	9156.8	9138.1	8905.3	8338.9	7799.8	7664.6	8436.5	9083.2	9066.1	8771.8
35°	9559.0	9499.1	9521.3	9403.2	8936.2	8263.6	7991.5	8811.2	9719.9	9718.1	9351.9
37.5°	9911.5	9858.4	9877.3	9798.6	9488.8	8852.2	8390.2	9269.8	10508.7	10546.4	10053.5
40°	10233.2	10176.7	10252.0	10178.5	9918.4	9478.6	8843.7	9788.3	11422.5	11494.5	10902.3
42.5°	10426.6	10382.1	10507.1	10508.7	10291.4	10007.4	9341.6	10359.9	12480.1	12640.9	11946.2
45°	10493.3	10478.0	10666.2	10705.5	10621.7	10313.7	9790.0	10982.8	13619.8	13907.3	13135.5
47.5°	10421.5	10392.4	10652.5	10798.0	10864.7	10457.4	10161.3	11657.0	14783.5	15204.4	14432.6
50°	10058.7	10002.3	10389.0	10695.3	10933.2	10551.6	10536.1	12435.6	16106.2	16566.6	15736.6
52.5°	9406.7	9363.9	9803.7	10335.9	10782.6	10597.7	10957.0	13286.0	17362.3	17957.8	17073.1
55°	8573.3	8516.8	9001.1	9695.9	10407.7	10582.3	11378.0	14237.6	18844.2	19448.2	18454.0
57.5°	7252.3	7139.3	7752.0	8573.3	9796.8	10563.5	11816.1	15183.8	20350.1	21074.0	19927.4
60°	5325.4	5157.7	5908.9	6882.6	8602.4	10380.4	12358.6	16244.8	22157.2	22809.1	21536.0
62.5°	3100.7	3003.2	3494.3	4403.0	6483.9	9302.3	12663.2	17478.6	23933.4	24617.9	23117.1
65°	2407.7	2380.4	2423.1	2493.3	3609.0	6964.8	11723.7	18681.6	26192.2	26671.4	24765.1
67.5°	2202.4	2181.8	2200.7	2068.9	1831.1	3879.4	9274.9	18986.3	28612.0	28902.8	26207.7
70°	1957.6	1933.7	1995.3	1882.4	1440.8	1764.3	5992.8	17880.8	30537.1	31083.0	27304.6
72.5°	1594.9	1567.5	1711.2	1659.9	1213.3	1132.8	3010.1	15254.0	30335.2	31468.0	26519.1
75°	1225.3	1209.8	1381.0	1423.7	989.1	891.5	1444.3	11338.7	26695.4	27836.7	22855.3
77.5°	951.4	939.5	1026.7	1182.4	797.4	691.4	888.2	7192.3	20117.4	20317.6	15750.3
80°	713.6	679.4	759.8	915.5	621.2	504.8	602.4	4194.3	12716.3	11526.9	6855.2
82.5°	446.6	429.5	496.3	610.9	438.1	347.4	391.9	2317.0	5096.1	3001.5	1322.8
85°	255.0	248.2	270.4	349.1	237.9	200.2	224.2	1023.4	930.9	640.0	398.7
87.5°	102.7	99.2	123.2	155.7	87.2	73.6	78.7	246.4	205.3	189.9	131.8
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°	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2
2.5°	6513.0	6513.0	6489.1	6451.3	6408.6	6381.2	6336.8	6324.8	6278.5	6264.9	6287.1
5°	6591.7	6578.0	6504.4	6398.4	6252.9	6119.4	5972.3	5879.8	5749.7	5703.6	5737.8
7.5°	6691.0	6653.3	6526.7	6293.9	5989.4	5689.9	5378.5	5142.3	4916.4	4836.0	4846.2
10°	6781.6	6728.6	6513.0	6105.7	5578.7	5060.1	4563.9	4216.5	3953.0	3845.2	3869.2
12.5°	6872.3	6774.8	6422.3	5792.6	4995.1	4291.8	3763.0	3492.7	3330.1	3200.0	3242.8
15°	6957.9	6821.0	6282.0	5373.3	4355.1	3641.5	3251.4	3035.7	2905.7	2820.1	2835.6
17.5°	7057.1	6860.3	6071.5	4841.1	3745.9	3191.4	2873.2	2743.1	2717.5	2707.2	2714.0
20°	7195.8	6896.3	5794.2	4245.5	3297.5	2832.1	2667.9	2655.9	2654.1	2649.0	2666.1
22.5°	7344.6	6939.0	5428.1	3704.9	2915.9	2607.9	2578.8	2554.9	2539.4	2537.8	2556.6
25°	7520.9	6952.8	4969.4	3261.7	2590.8	2501.8	2467.6	2431.7	2421.4	2421.4	2431.7
27.5°	7692.0	6906.6	4435.6	2876.6	2407.7	2404.3	2359.8	2347.9	2346.1	2351.2	2365.0
30°	7863.2	6819.3	3905.0	2520.7	2301.6	2301.6	2286.3	2294.8	2301.6	2318.8	2330.7
32.5°	8094.2	6726.9	3461.8	2257.2	2209.2	2192.1	2207.5	2224.7	2231.4	2253.7	2272.5
35°	8433.0	6661.9	3109.3	2113.3	2113.3	2091.1	2099.7	2096.2	2080.9	2070.6	2094.6
37.5°	8881.3	6658.4	2818.4	2046.6	2033.0	2029.5	2031.2	2009.0	1949.1	1877.2	1878.9
40°	9420.4	6750.9	2594.3	2000.5	1990.1	2010.7	2000.5	1940.5	1776.2	1651.4	1647.9
42.5°	10144.2	7014.4	2450.5	1944.0	1974.8	2000.5	1959.4	1752.3	1641.1	1557.2	1553.8
45°	10996.4	7442.2	2376.9	1884.1	1945.7	1976.5	1778.0	1687.3	1598.3	1497.3	1490.5
47.5°	11961.5	7981.3	2359.8	1827.6	1880.7	1899.5	1701.0	1659.9	1558.9	1449.5	1440.8
50°	13012.3	8619.5	2406.0	1760.8	1786.6	1721.5	1675.3	1637.6	1533.3	1425.5	1413.5
52.5°	14099.0	9322.9	2498.4	1670.1	1692.4	1620.5	1665.0	1632.5	1517.9	1372.4	1362.1
55°	15166.7	10031.3	2587.4	1564.0	1596.5	1529.8	1635.9	1612.0	1447.7	1283.4	1274.9
57.5°	16251.7	10736.4	2674.6	1470.0	1504.2	1442.6	1589.8	1557.2	1369.0	1201.3	1197.9
60°	17379.4	11420.9	2715.7	1379.2	1403.2	1362.1	1519.6	1463.1	1280.0	1117.5	1112.3
62.5°	18435.2	11990.7	2649.0	1288.5	1304.0	1286.9	1427.2	1351.9	1191.0	1023.4	1021.6
65°	19494.5	12329.5	2443.7	1199.6	1203.0	1194.4	1297.1	1232.0	1086.6	941.2	930.9
67.5°	20454.5	12519.5	2116.8	1103.7	1095.2	1091.7	1175.6	1102.1	985.6	859.1	848.8
70°	20658.2	12036.9	1617.1	990.8	990.8	982.3	1042.1	966.9	874.4	771.7	768.3
72.5°	18868.2	10125.5	1148.2	862.4	876.2	859.1	908.7	845.3	761.5	693.0	672.5
75°	15214.7	7425.1	835.1	730.7	754.7	725.6	771.7	727.2	655.4	653.7	588.7
77.5°	10454.0	4591.3	605.8	602.4	619.5	581.8	634.9	610.9	545.9	516.8	484.3
80°	4461.2	1831.1	441.5	465.5	465.5	431.2	492.8	499.7	443.2	429.5	429.5
82.5°	888.2	520.2	309.8	320.0	301.1	290.9	349.1	386.7	533.9	593.8	595.5
85°	266.9	191.7	186.5	174.6	154.1	155.7	205.3	388.5	479.2	273.8	236.2
87.5°	73.6	47.9	49.6	39.4	32.5	42.7	70.1	294.4	160.8	68.5	58.2
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)