

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: P966569

Luminaire Tested: **NAV-SB4C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966569
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-SB4C-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25847.4 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

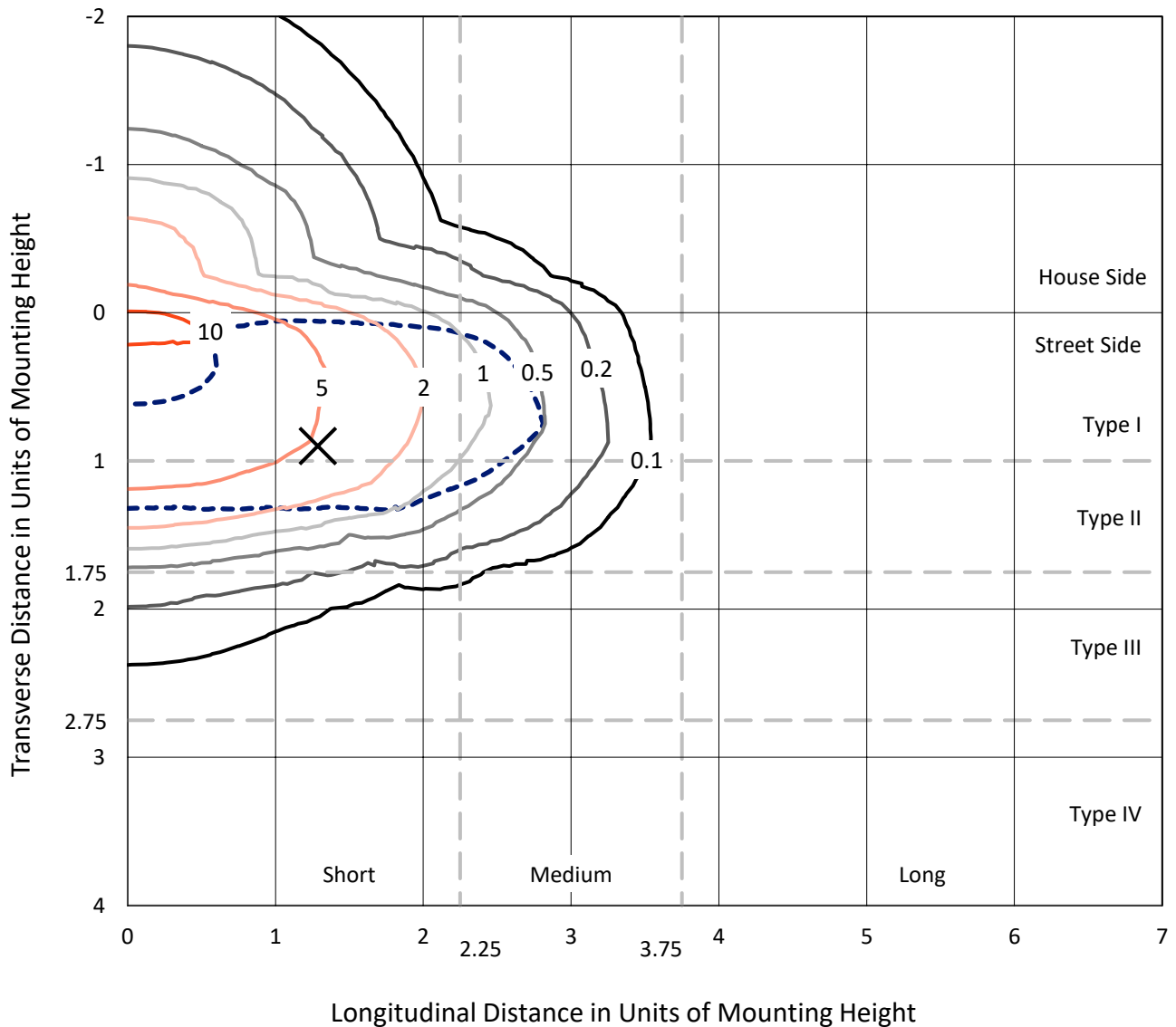
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

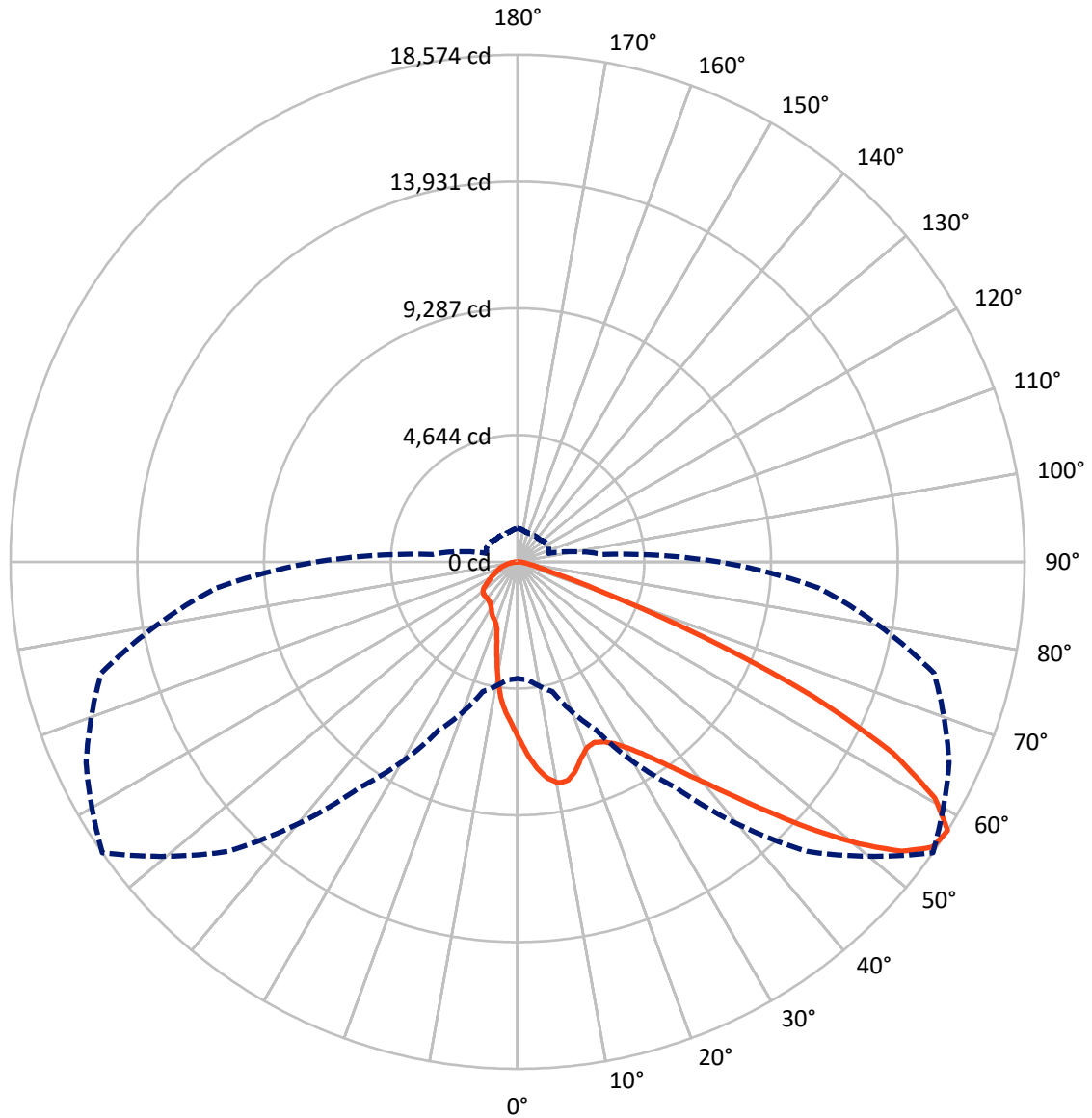
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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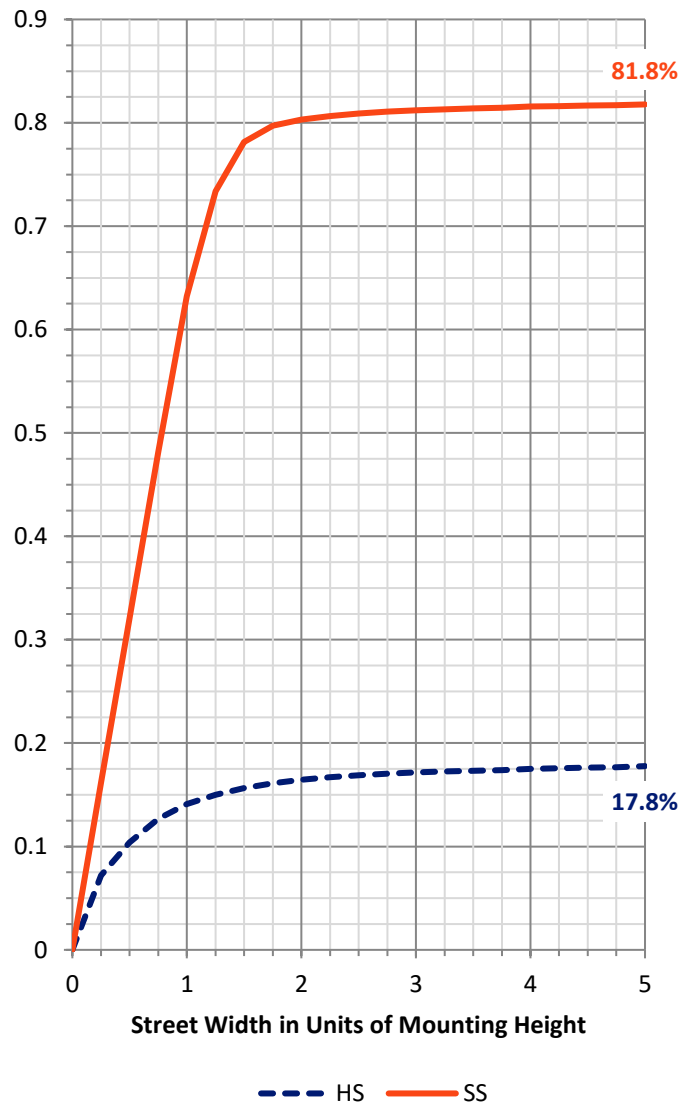
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.0	0.0	4677.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21170.5	0.0	21170.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	25847.4	0.0	25847.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.0	2.3
10°-20°	1516.9	5.9
20°-30°	2420.6	9.4
30°-40°	3832.3	14.8
40°-50°	5865.8	22.7
50°-60°	6282.8	24.3
60°-70°	3952.5	15.3
70°-80°	1168.8	4.5
80°-90°	206.7	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°	25847.4	100.0
0°-180°	25847.4	100.0

Coefficient of Utilization

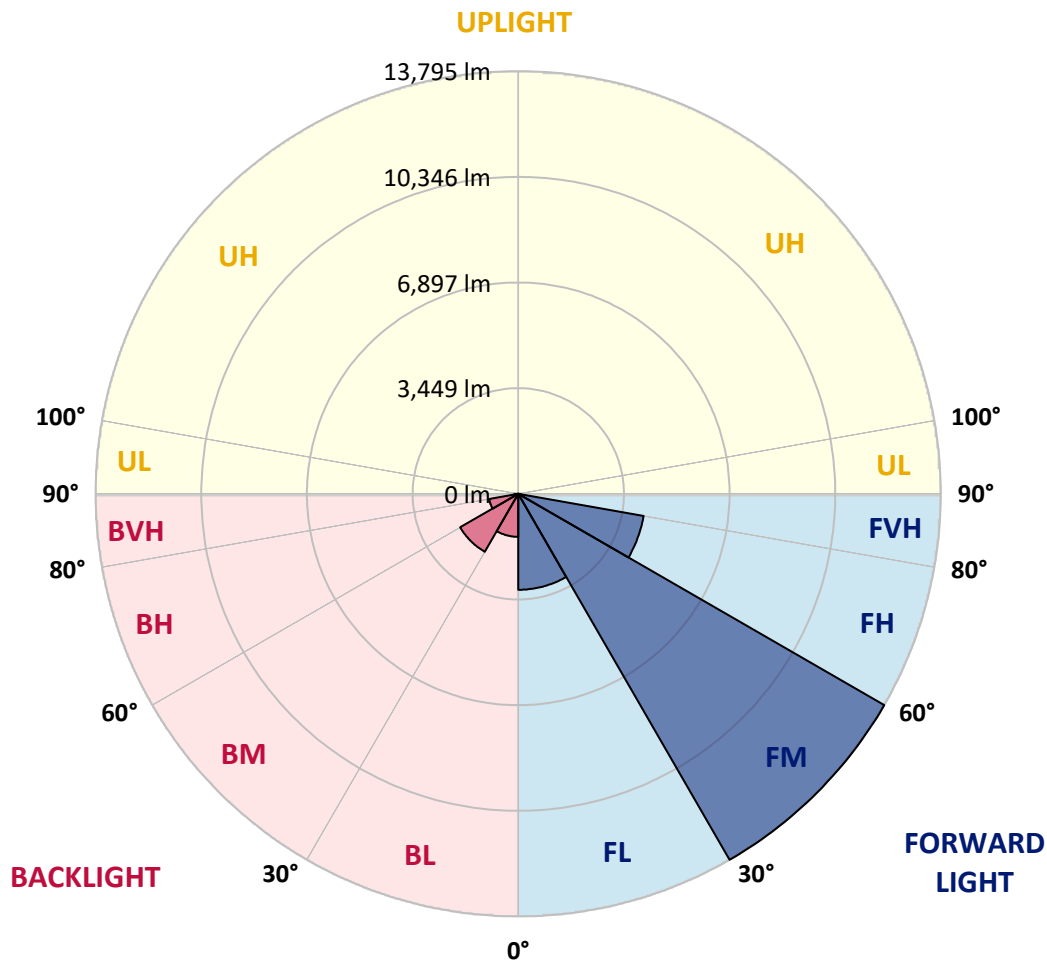


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3132.7	12.1			
FM (30°-60°)	13794.9	53.4			
FH (60°-80°)	4155.5	16.1			G2/5000
FVH (80°-90°)	87.3	0.3			G1/100
BL (0°-30°)	1405.7	5.4	B3/2500		
BM (30°-60°)	2186.0	8.5	B2/2500		
BH (60°-80°)	965.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	119.3	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-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6
2.5°	7430.5	7425.2	7454.6	7354.4	7286.2	7194.1	7072.5	6917.5	6750.4	6574.0	6497.9
5°	8100.0	8053.2	8084.0	8009.1	7934.3	7795.3	7614.9	7362.5	7053.7	6702.4	6515.3
7.5°	7994.5	7962.4	8041.2	8108.1	8164.1	8146.8	8014.5	7749.9	7351.7	6841.3	6570.0
10°	7143.3	7107.2	7218.2	7449.3	7788.7	8084.0	8244.3	8080.0	7656.3	6993.7	6623.6
12.5°	6392.3	6375.0	6448.5	6635.5	7012.3	7578.8	8214.9	8368.6	7973.1	7174.0	6695.7
15°	6071.7	6050.3	6097.0	6191.9	6432.4	6960.3	7947.6	8566.3	8284.4	7382.5	6810.6
17.5°	6000.9	5976.8	5996.9	6046.3	6201.2	6603.5	7544.1	8663.9	8609.1	7614.9	6906.8
20°	6131.8	6111.8	6114.4	6111.8	6220.0	6539.3	7263.6	8626.5	8892.4	7828.7	7000.3
22.5°	6448.5	6415.1	6416.4	6345.6	6404.4	6651.5	7190.1	8526.3	9144.9	8015.8	7071.2
25°	6964.3	6904.1	6916.1	6735.8	6719.7	6902.8	7305.0	8448.8	9396.1	8165.5	7084.5
27.5°	7669.8	7601.6	7565.5	7297.0	7168.6	7259.6	7538.8	8475.5	9634.0	8295.1	7051.1
30°	8551.7	8468.8	8395.3	8014.5	7782.0	7748.6	7902.2	8651.8	9914.5	8431.3	6993.7
32.5°	9632.6	9536.4	9402.8	8897.7	8570.3	8395.3	8372.6	8965.9	10243.2	8605.1	6964.3
35°	10919.3	10793.8	10604.0	9950.6	9536.4	9178.3	8992.5	9418.8	10693.5	8867.0	6997.7
37.5°	12244.9	12103.2	11929.6	11151.9	10642.8	10115.0	9748.9	10033.5	11293.4	9222.4	7085.8
40°	13467.5	13308.5	13146.8	12454.7	11908.1	11272.1	10674.9	10811.1	12027.0	9647.3	7235.5
42.5°	14189.1	14071.4	14010.0	13635.9	13213.6	12568.2	11826.7	11733.1	12851.4	10136.3	7406.5
45°	14157.0	14108.8	14298.6	14453.6	14353.4	13995.2	13176.2	12752.6	13678.6	10560.0	7564.2
47.5°	13400.6	13432.7	13856.4	14727.5	15111.0	15298.0	14712.8	13753.4	14397.5	10876.6	7635.0
50°	11343.0	11369.7	12350.4	14229.2	15306.1	16360.3	16237.4	14730.2	14954.6	11070.3	7618.9
52.5°	9714.1	9731.5	10152.4	12751.3	14662.0	16894.9	17611.0	15650.8	15362.2	11123.8	7529.4
55°	7317.0	7377.1	7848.8	10004.1	12986.4	16471.2	18447.4	16599.6	15620.1	11129.1	7435.9
57.5°	4274.5	4340.0	4922.6	6790.5	10093.6	14994.7	18574.4	17441.3	15795.1	11086.4	7379.8
60°	2093.8	2121.9	2375.7	3568.9	6224.0	12150.0	17553.5	17848.8	15892.6	11063.6	7377.1
62.5°	1411.0	1407.0	1417.7	1761.1	3066.6	7806.0	15426.4	17135.3	15840.6	10976.8	7350.4
65°	1213.3	1198.5	1158.5	1235.9	1588.7	3570.3	11918.8	15005.5	15443.7	10759.0	7167.3
67.5°	1048.9	1050.2	1051.5	1027.6	1134.5	1647.5	7283.5	11820.0	14019.3	9727.5	6461.8
70°	868.5	880.6	885.9	885.9	924.7	1081.0	3109.3	8101.3	11058.3	7627.0	5204.4
72.5°	791.0	765.7	768.3	754.9	754.9	823.1	1252.0	4592.5	6966.9	4290.5	3176.2
75°	645.3	661.4	664.1	654.8	624.0	628.0	742.9	1926.8	2981.0	1779.8	1570.0
77.5°	557.2	557.2	562.5	555.9	531.8	470.4	495.7	746.9	1014.1	729.6	784.3
80°	447.6	446.3	469.0	482.4	445.0	347.4	316.7	412.9	450.3	320.7	407.5
82.5°	217.8	231.1	322.1	367.5	338.0	251.2	193.7	256.6	240.5	141.7	183.1
85°	126.9	120.2	144.3	204.5	193.7	139.0	93.6	133.7	125.6	72.2	73.5
87.5°	40.1	37.4	29.4	69.5	56.2	38.7	25.4	38.7	34.7	16.0	16.0
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°	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6	6476.6
2.5°	6403.1	6245.3	6089.0	5946.0	5859.2	5803.0	5747.0	5684.1	5660.2	5624.1
5°	6338.9	6034.3	5763.0	5529.2	5316.7	5149.7	4981.3	4845.1	4783.6	4825.0
7.5°	6301.5	5860.5	5442.3	5013.4	4600.5	4270.5	3983.2	3781.4	3690.6	3713.3
10°	6268.1	5664.2	5026.8	4349.3	3756.0	3347.1	3053.2	2899.5	2842.1	2854.1
12.5°	6237.3	5443.7	4525.7	3634.4	3003.8	2733.9	2649.6	2651.0	2661.7	2669.7
15°	6232.0	5177.8	3965.8	3009.1	2597.6	2580.2	2671.0	2728.5	2759.2	2768.6
17.5°	6224.0	4859.7	3395.3	2582.9	2498.6	2616.3	2700.5	2737.9	2761.9	2763.3
20°	6191.9	4456.2	2868.8	2379.7	2477.3	2578.9	2631.0	2660.4	2680.4	2687.0
22.5°	6093.0	4007.2	2458.6	2288.9	2391.7	2473.3	2534.7	2568.1	2580.2	2588.2
25°	5915.3	3504.8	2175.4	2202.0	2272.8	2375.7	2425.1	2431.9	2427.8	2439.9
27.5°	5682.8	2966.4	1999.0	2084.4	2175.4	2263.5	2290.3	2286.3	2278.2	2291.6
30°	5402.3	2482.7	1886.7	1952.2	2076.4	2156.6	2180.7	2171.4	2155.3	2170.0
32.5°	5105.6	2087.1	1794.5	1860.0	1995.0	2073.8	2097.9	2088.4	2076.4	2088.4
35°	4829.0	1810.6	1709.0	1798.5	1930.8	2008.3	2039.0	2040.4	2040.4	2055.0
37.5°	4575.1	1648.8	1638.2	1759.7	1886.7	1956.2	2000.3	2003.0	1945.4	1949.5
40°	4340.0	1580.8	1606.1	1734.4	1844.0	1910.8	1913.5	1763.8	1658.2	1655.6
42.5°	4147.6	1567.3	1615.5	1731.7	1813.2	1815.9	1627.5	1511.3	1481.8	1483.2
45°	3967.2	1563.3	1636.8	1731.7	1767.8	1568.7	1441.8	1411.0	1413.7	1424.3
47.5°	3765.4	1547.3	1640.8	1707.6	1636.8	1395.0	1357.6	1344.2	1338.9	1341.5
50°	3545.0	1489.8	1590.1	1659.6	1412.3	1320.2	1273.4	1269.4	1276.0	1280.1
52.5°	3312.4	1396.4	1503.3	1572.7	1309.4	1254.7	1202.5	1212.0	1241.3	1250.7
55°	3160.1	1286.8	1388.3	1399.0	1237.3	1193.2	1149.1	1170.6	1225.3	1242.7
57.5°	3120.0	1170.6	1257.4	1245.4	1145.1	1139.8	1113.0	1131.8	1201.2	1226.6
60°	3108.0	1066.3	1129.0	1119.7	1055.5	1081.0	1074.3	1083.6	1107.7	1115.7
62.5°	3014.4	983.5	1014.1	1000.8	975.4	1019.5	1035.6	1015.5	1034.2	1043.6
65°	2776.6	916.7	901.9	892.6	903.2	943.3	975.4	935.3	952.7	979.4
67.5°	2383.7	825.7	785.7	796.3	829.7	851.2	892.6	847.2	861.8	907.2
70°	1928.1	710.8	674.8	705.5	737.6	781.7	788.3	757.6	792.3	843.2
72.5°	1364.3	594.6	569.2	632.0	642.7	700.2	685.4	670.8	718.8	736.3
75°	946.1	479.7	465.0	513.1	551.9	601.3	590.6	607.9	709.5	717.5
77.5°	598.6	372.8	363.5	394.2	447.6	502.5	519.8	717.5	1212.0	1260.0
80°	347.4	277.9	267.2	291.3	338.0	388.8	501.1	880.6	799.1	789.7
82.5°	193.7	191.1	177.7	184.4	225.8	280.6	708.2	620.0	503.8	519.8
85°	90.8	112.2	96.2	92.1	126.9	328.7	473.0	354.1	235.1	229.8
87.5°	24.1	21.4	21.4	24.1	53.4	283.3	188.4	151.0	89.5	86.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)