

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: P962389

Luminaire Tested: **NAV-SB2C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13916.4 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

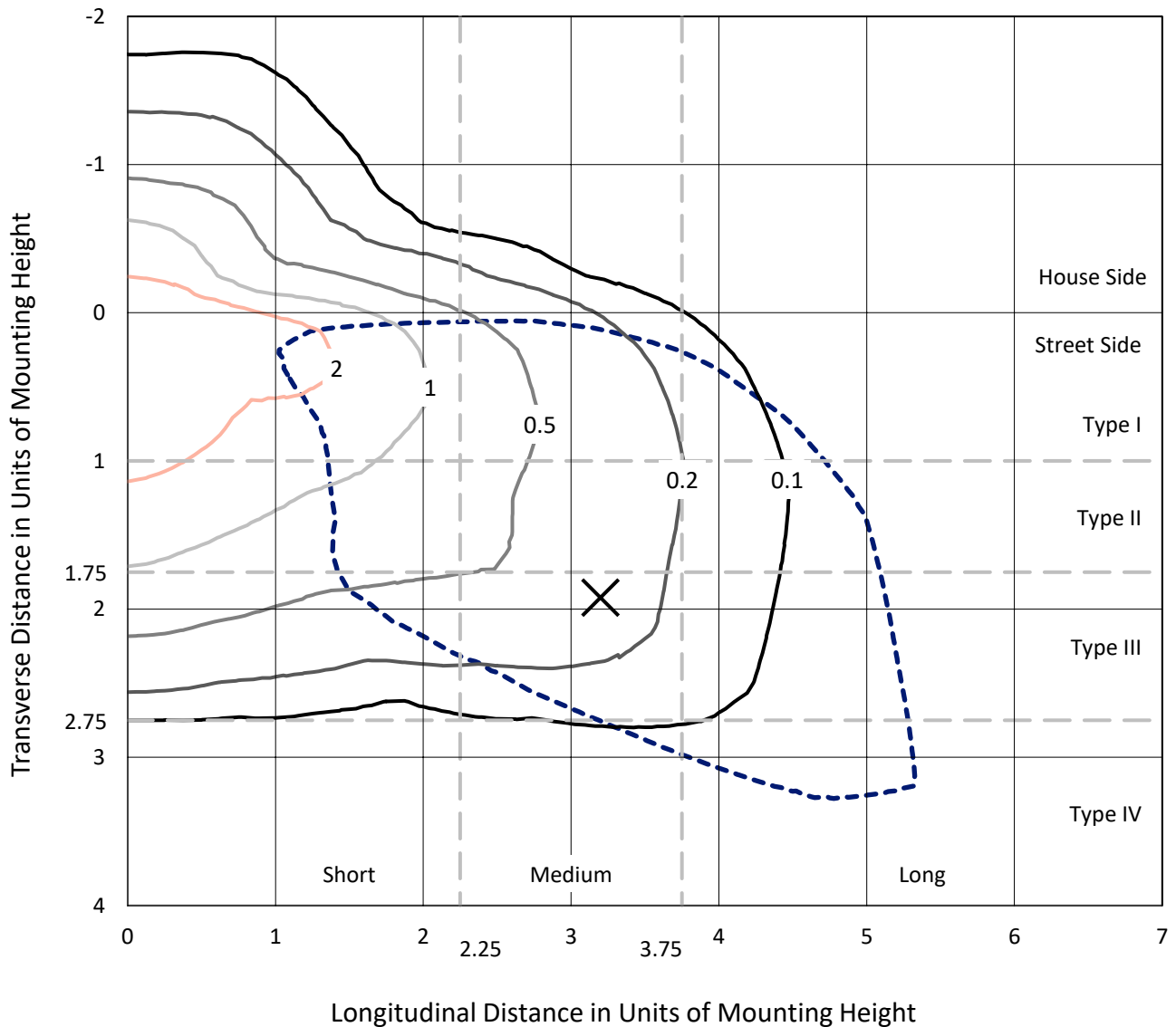
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

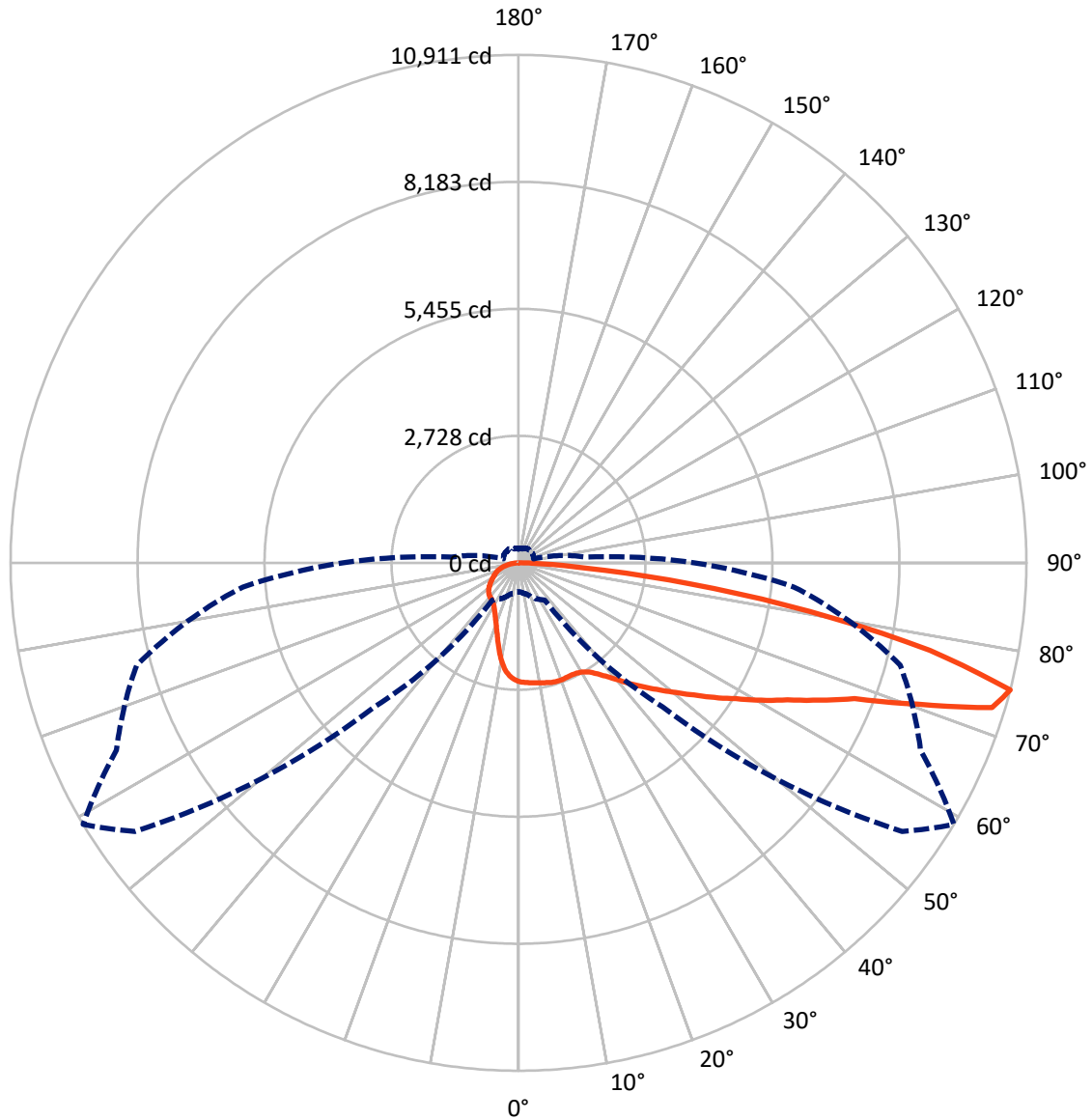
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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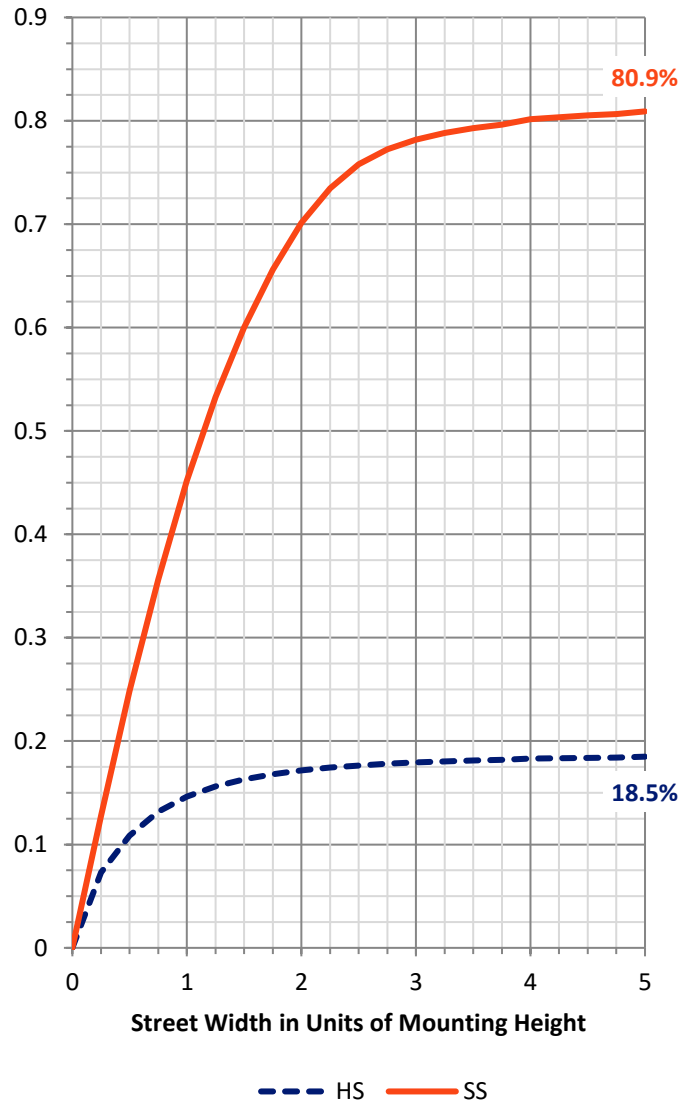
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2610.1	0.0	2610.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11306.3	0.0	11306.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	13916.4	0.0	13916.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.6
10°-20°	585.4	4.2
20°-30°	889.2	6.4
30°-40°	1321.8	9.5
40°-50°	1965.8	14.1
50°-60°	2668.3	19.2
60°-70°	3257.5	23.4
70°-80°	2556.5	18.4
80°-90°	442.8	3.2
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°	13916.4	100.0
0°-180°	13916.4	100.0

Coefficient of Utilization

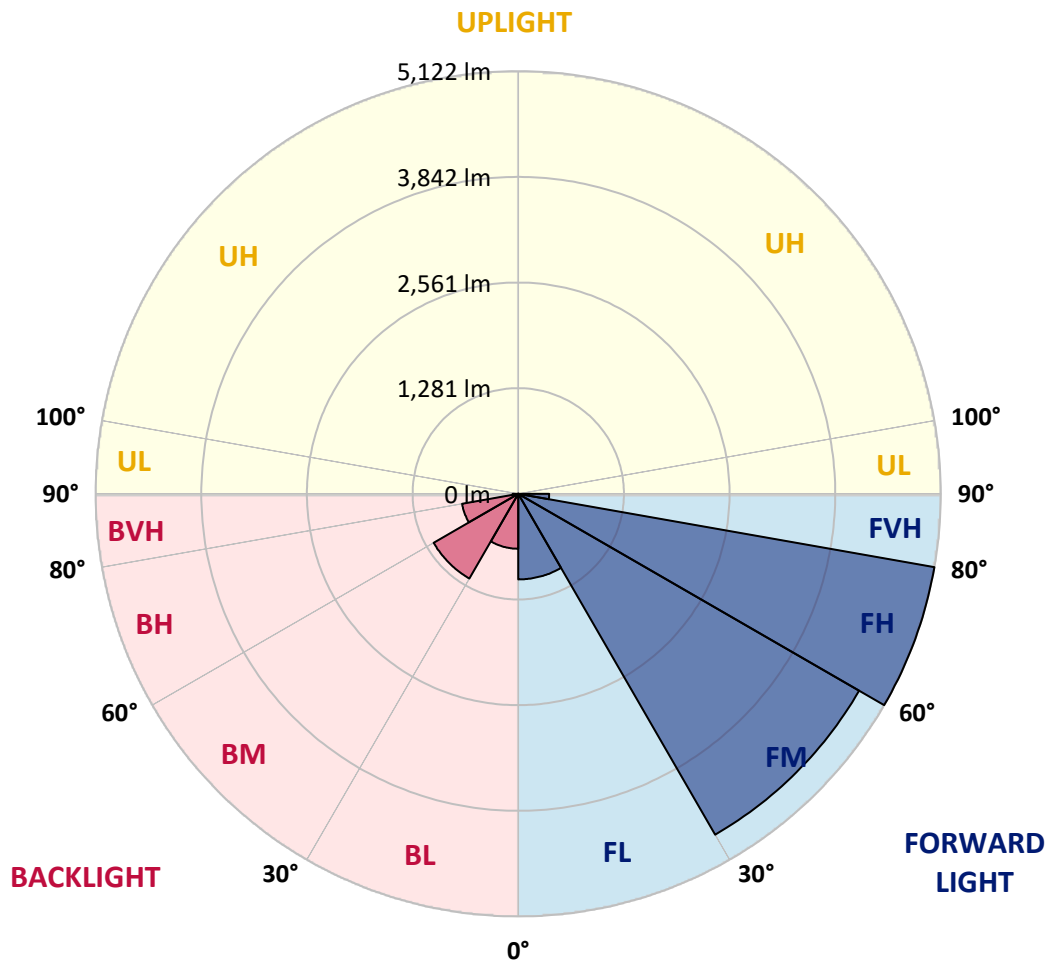


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.6	7.5			
FM (30°-60°)	4771.1	34.3			
FH (60°-80°)	5122.5	36.8			G3/7500
FVH (80°-90°)	375.1	2.7			G3/500
BL (0°-30°)	666.1	4.8	B2/1000		
BM (30°-60°)	1184.7	8.5	B2/2500		
BH (60°-80°)	691.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2.5°	2576.0	2567.0	2576.0	2572.3	2570.8	2567.8	2568.5	2573.8	2570.8	2574.5	2561.8
5°	2558.8	2553.6	2562.6	2560.3	2570.1	2571.5	2581.3	2587.3	2591.0	2591.7	2582.1
7.5°	2530.4	2525.1	2537.9	2548.4	2569.3	2575.3	2595.5	2605.2	2610.5	2619.5	2605.2
10°	2426.3	2424.0	2455.5	2495.2	2544.6	2575.3	2606.0	2622.5	2630.7	2654.6	2638.1
12.5°	2242.2	2245.2	2286.4	2362.7	2461.5	2560.3	2618.0	2641.9	2654.6	2684.6	2677.1
15°	2066.2	2065.5	2110.4	2192.0	2330.4	2494.4	2624.0	2665.1	2686.8	2731.0	2725.1
17.5°	1964.4	1961.4	1992.8	2055.0	2183.8	2393.4	2608.9	2677.8	2724.2	2779.7	2774.5
20°	1945.7	1939.7	1956.2	1986.9	2078.2	2282.6	2570.1	2677.8	2754.2	2826.1	2823.1
22.5°	2013.8	2004.1	1997.3	1993.6	2034.0	2191.2	2525.9	2668.9	2798.4	2892.8	2887.4
25°	2150.9	2135.9	2101.5	2067.7	2055.7	2150.0	2487.0	2666.6	2864.3	2982.5	2963.1
27.5°	2372.4	2353.7	2284.1	2203.2	2130.6	2171.1	2469.7	2680.1	2936.8	3077.7	3038.7
30°	2647.2	2627.0	2539.3	2415.1	2284.8	2248.8	2491.5	2719.7	3029.7	3204.1	3127.8
32.5°	2893.5	2871.0	2796.1	2669.6	2493.7	2383.6	2560.3	2795.4	3175.7	3380.0	3261.8
35°	3112.1	3085.9	3018.5	2901.7	2749.8	2573.1	2684.6	2929.3	3383.0	3666.0	3443.7
37.5°	3326.1	3295.5	3222.1	3098.6	2992.3	2825.3	2856.1	3101.5	3658.5	4013.4	3684.8
40°	3565.8	3521.6	3432.5	3310.4	3207.1	3121.0	3081.4	3312.7	3938.6	4401.2	3985.7
42.5°	3797.8	3755.9	3649.6	3545.5	3416.0	3391.3	3342.6	3559.7	4244.7	4827.1	4291.2
45°	4047.8	3997.7	3869.0	3737.2	3655.6	3571.0	3595.7	3806.7	4545.0	5261.4	4611.6
47.5°	4282.1	4226.0	4074.1	3927.3	3882.4	3722.2	3827.8	4078.6	4857.2	5701.6	4929.0
50°	4408.7	4353.3	4226.8	4094.3	4059.1	3908.6	4079.3	4377.3	5184.2	6140.3	5233.6
52.5°	4514.2	4454.3	4288.9	4215.5	4205.1	4111.5	4389.3	4718.6	5511.4	6528.0	5527.9
55°	4626.5	4559.9	4348.8	4283.0	4330.8	4339.0	4756.8	5105.6	5857.3	6906.1	5805.6
57.5°	4756.1	4671.4	4406.5	4339.8	4453.6	4605.5	5179.0	5506.9	6197.2	7256.5	6052.7
60°	4878.1	4792.7	4517.3	4430.4	4586.2	4914.8	5663.4	5992.8	6581.9	7568.7	6286.2
62.5°	4902.1	4831.6	4605.5	4604.8	4765.7	5275.6	6236.8	6483.1	6918.1	7877.1	6495.8
65°	4487.2	4443.2	4309.1	4598.0	5023.3	5795.1	6875.4	7110.5	7345.6	8146.6	6680.0
67.5°	3415.3	3421.2	3411.5	3969.2	4815.2	6541.5	7799.9	7782.0	7873.3	8449.1	6891.9
70°	1561.7	1596.8	1825.9	2740.0	3857.7	6627.6	9328.7	9095.8	8535.9	8840.6	7075.3
72.5°	843.7	870.6	964.2	1327.3	2319.3	5892.5	10471.1	10636.5	9417.0	9104.0	6874.0
75°	619.1	634.1	699.3	843.7	974.0	4379.5	10061.6	10910.5	9527.1	8489.5	5935.9
77.5°	463.4	470.2	523.3	668.5	498.6	2308.8	8039.6	9036.0	8155.6	6975.0	4384.7
80°	336.1	343.6	383.3	501.5	349.6	844.5	5520.4	6342.4	5585.5	4446.1	2185.3
82.5°	232.1	235.0	252.3	341.3	244.1	327.9	3132.3	3719.2	3118.0	1560.2	589.9
85°	140.0	143.7	151.2	199.2	138.5	155.7	1352.1	1398.4	932.0	372.8	183.4
87.5°	57.6	61.4	67.3	83.8	54.6	43.5	223.1	280.0	174.5	109.3	56.9
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°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2.5°	2558.1	2552.9	2538.6	2519.1	2501.2	2478.8	2469.0	2460.7	2453.2	2439.1	2432.3
5°	2573.8	2559.5	2521.4	2472.0	2415.8	2354.4	2294.6	2253.4	2218.2	2192.0	2170.2
7.5°	2597.8	2570.8	2501.2	2400.1	2271.3	2139.6	2020.6	1935.9	1872.4	1849.1	1808.7
10°	2622.5	2590.3	2469.0	2290.8	2068.4	1865.6	1707.6	1620.8	1569.9	1553.4	1528.0
12.5°	2651.7	2604.5	2418.8	2138.9	1841.6	1619.3	1481.5	1430.6	1404.5	1395.4	1397.7
15°	2694.3	2616.4	2343.3	1948.7	1625.2	1439.6	1350.5	1315.4	1301.9	1301.1	1304.1
17.5°	2726.5	2618.7	2225.7	1745.1	1459.1	1331.1	1257.7	1244.2	1253.2	1266.7	1271.9
20°	2762.5	2598.5	2071.4	1559.4	1342.3	1235.9	1205.3	1214.3	1235.9	1255.4	1262.2
22.5°	2787.9	2561.8	1885.1	1414.9	1241.3	1181.3	1179.9	1198.5	1210.5	1220.3	1225.5
25°	2810.3	2499.7	1687.5	1293.7	1158.1	1148.4	1164.9	1158.9	1150.7	1158.9	1164.1
27.5°	2826.8	2401.6	1510.7	1187.4	1099.7	1126.0	1116.2	1102.7	1102.0	1106.5	1114.0
30°	2821.6	2270.6	1365.5	1086.3	1058.5	1084.0	1060.8	1058.5	1056.4	1058.5	1066.8
32.5°	2821.6	2121.6	1254.0	1016.6	1032.4	1022.6	1020.4	1015.2	1006.1	1005.4	1015.2
35°	2837.3	1972.6	1158.1	979.2	1010.6	987.5	988.9	976.2	957.5	948.5	957.5
37.5°	2869.5	1852.9	1063.0	961.2	972.5	971.7	965.8	944.0	911.1	882.6	892.4
40°	2947.4	1817.6	997.9	953.0	954.5	963.5	947.8	905.8	831.0	784.5	790.6
42.5°	3069.4	1876.8	983.7	932.7	942.5	951.5	920.9	823.5	770.4	742.6	742.6
45°	3224.3	1980.1	1014.4	903.6	914.1	929.8	838.4	792.0	768.1	768.9	772.5
47.5°	3420.5	2088.6	1071.3	878.1	872.9	881.9	783.8	755.3	722.4	730.6	751.6
50°	3647.4	2198.7	1125.1	843.7	827.3	798.1	748.7	721.7	679.8	660.3	665.5
52.5°	3892.8	2305.0	1146.9	801.8	777.9	744.2	724.7	691.8	640.8	608.6	607.9
55°	4125.7	2401.6	1123.0	751.6	728.5	702.2	699.3	679.0	624.3	579.4	579.4
57.5°	4345.8	2482.4	1063.0	700.7	678.2	662.6	682.8	673.0	604.1	546.5	543.5
60°	4532.2	2537.9	976.2	649.0	633.3	625.1	655.8	652.8	575.7	511.3	509.1
62.5°	4680.5	2559.5	880.4	599.6	595.9	581.0	618.4	618.4	539.8	476.8	474.7
65°	4796.5	2538.6	783.1	551.0	558.5	536.0	572.7	568.3	501.5	446.2	443.2
67.5°	4899.1	2469.7	675.3	503.1	520.3	491.9	524.8	514.3	459.6	415.5	412.5
70°	4944.7	2309.5	552.5	455.2	476.1	448.4	476.8	457.5	412.5	382.5	376.6
72.5°	4577.9	1919.5	434.9	405.0	423.0	400.5	425.3	402.7	361.6	348.1	336.9
75°	3787.4	1440.3	334.7	350.3	363.9	346.7	363.1	346.7	309.1	318.9	291.2
77.5°	2750.5	972.5	256.0	292.7	298.7	289.8	303.9	285.3	251.5	249.3	238.1
80°	1367.8	569.7	200.6	231.3	229.1	223.1	239.5	230.6	202.1	214.1	211.9
82.5°	396.1	244.1	146.0	162.5	158.0	159.5	171.5	175.9	263.5	261.3	267.2
85°	124.2	95.8	87.6	90.6	86.1	88.4	101.1	200.6	185.6	108.5	117.6
87.5°	32.2	32.9	21.7	23.2	24.0	28.5	32.2	122.1	58.4	38.1	40.4
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)