

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: P966047

Luminaire Tested: **NAV-SB4B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966047
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-SB4B-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18676.5 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

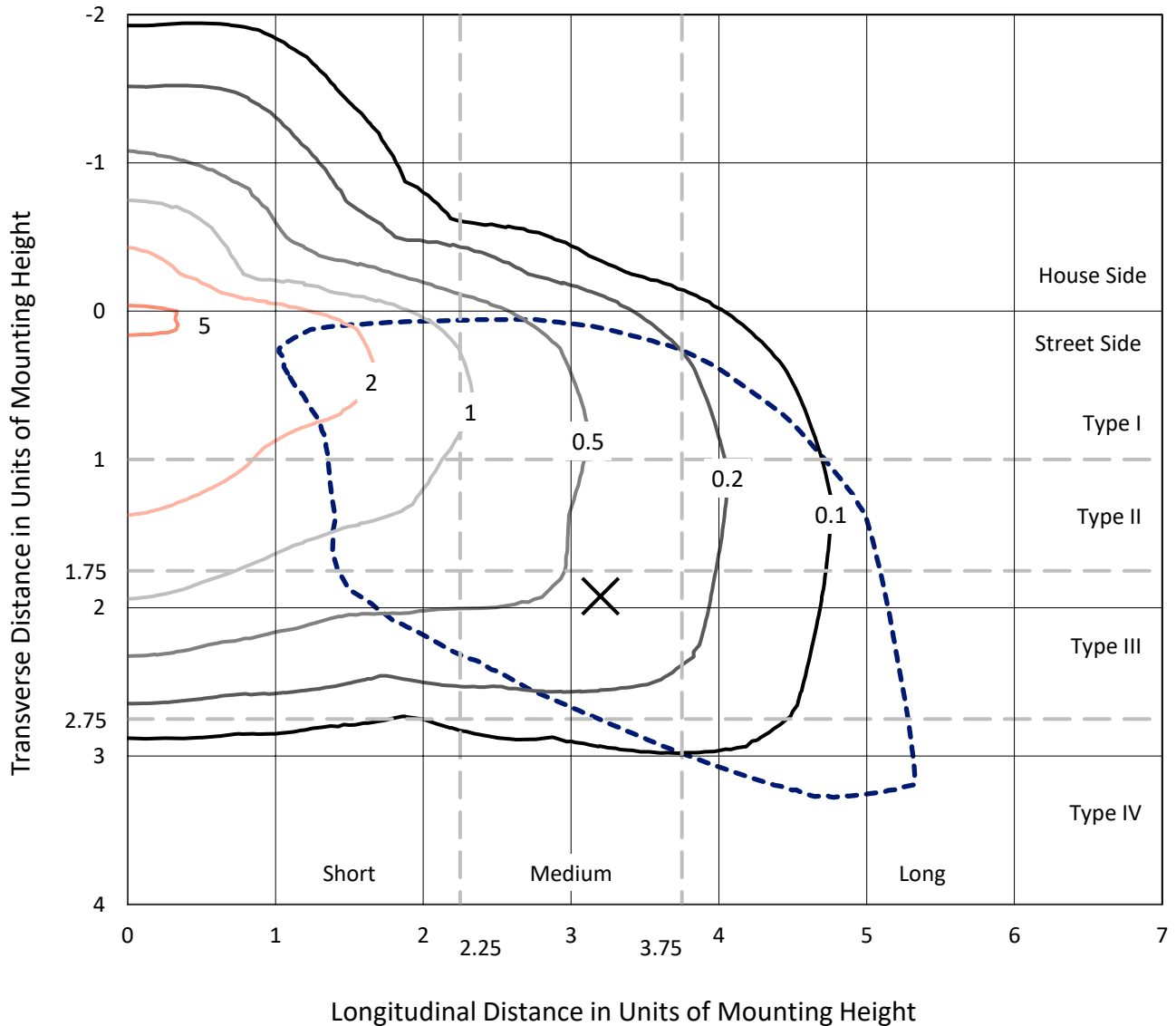
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

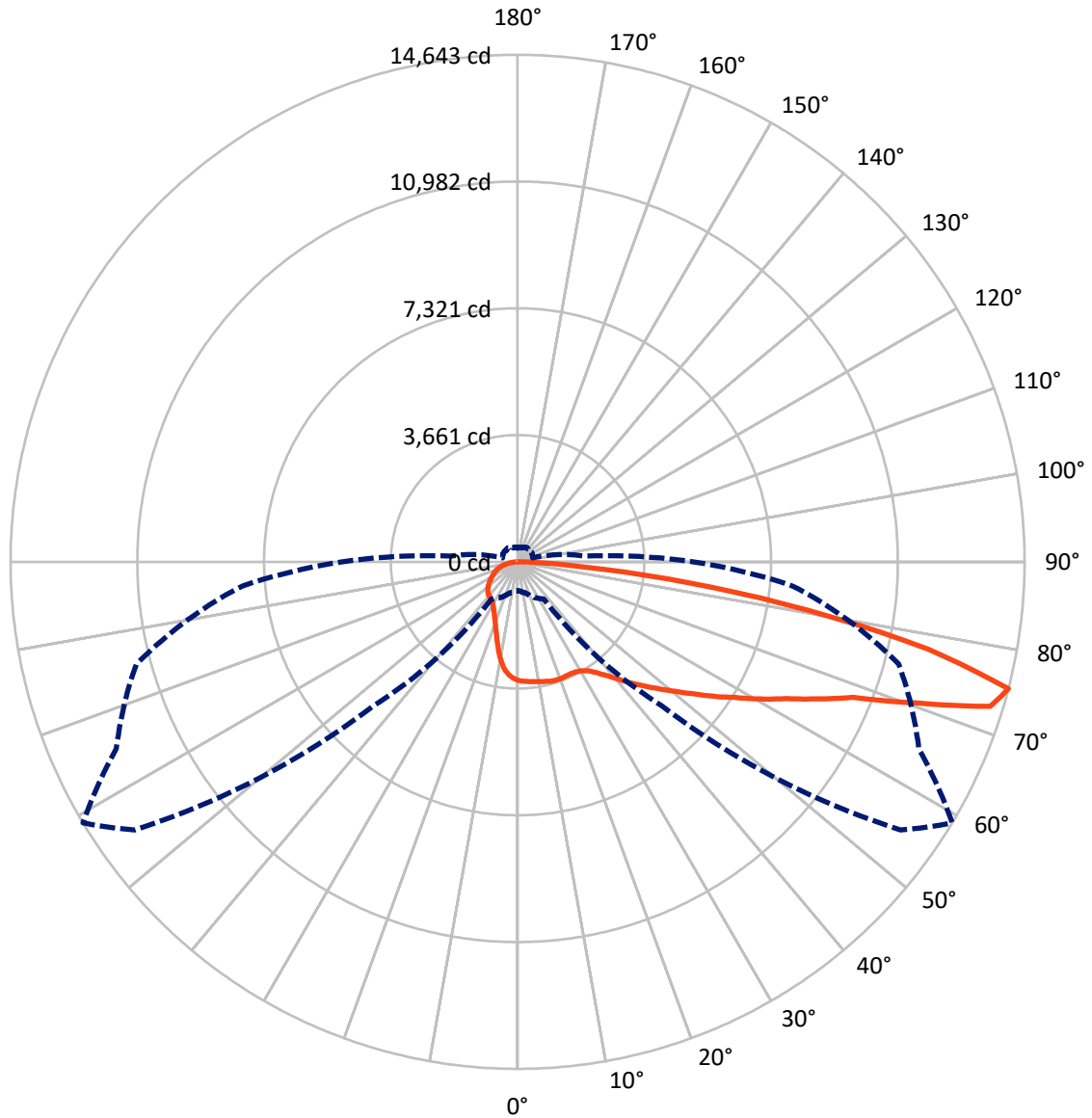
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P966047
CATALOG NUMBER: NAV-SB4B-722-U-SL3

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: NAV-SB4B-722-U-SL3

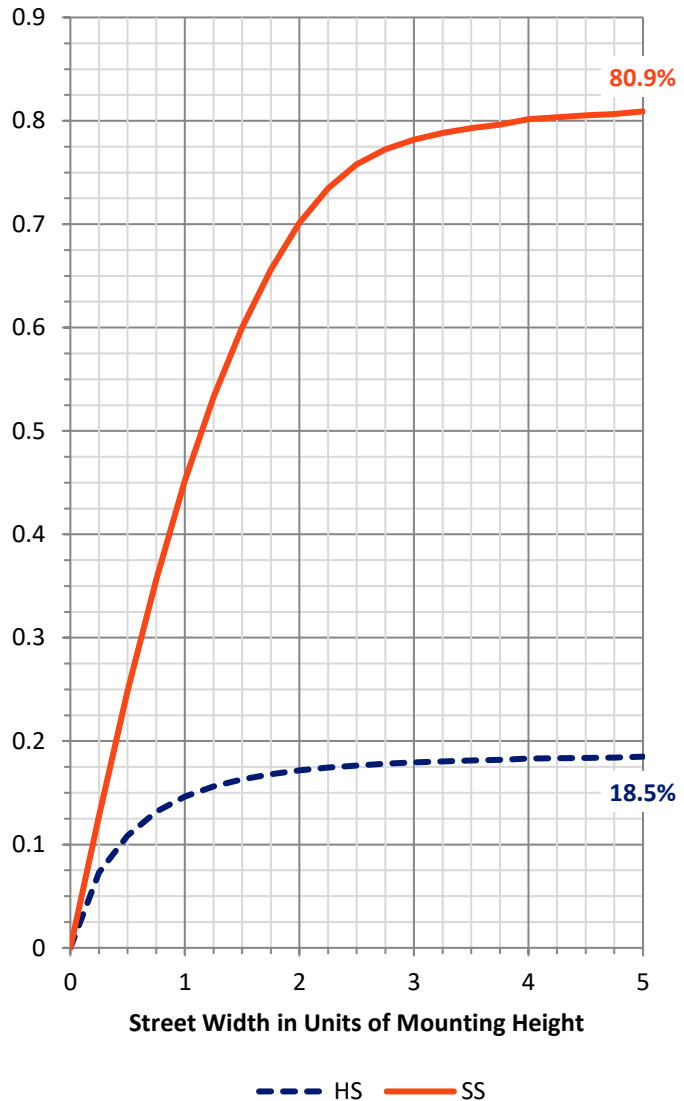
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.9	0.0	3502.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15173.6	0.0	15173.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	18676.5	0.0	18676.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	1.6
10°-20°	785.7	4.2
20°-30°	1193.4	6.4
30°-40°	1773.9	9.5
40°-50°	2638.1	14.1
50°-60°	3581.0	19.2
60°-70°	4371.8	23.4
70°-80°	3430.9	18.4
80°-90°	594.3	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°	18676.5	100.0
0°-180°	18676.5	100.0

Coefficient of Utilization

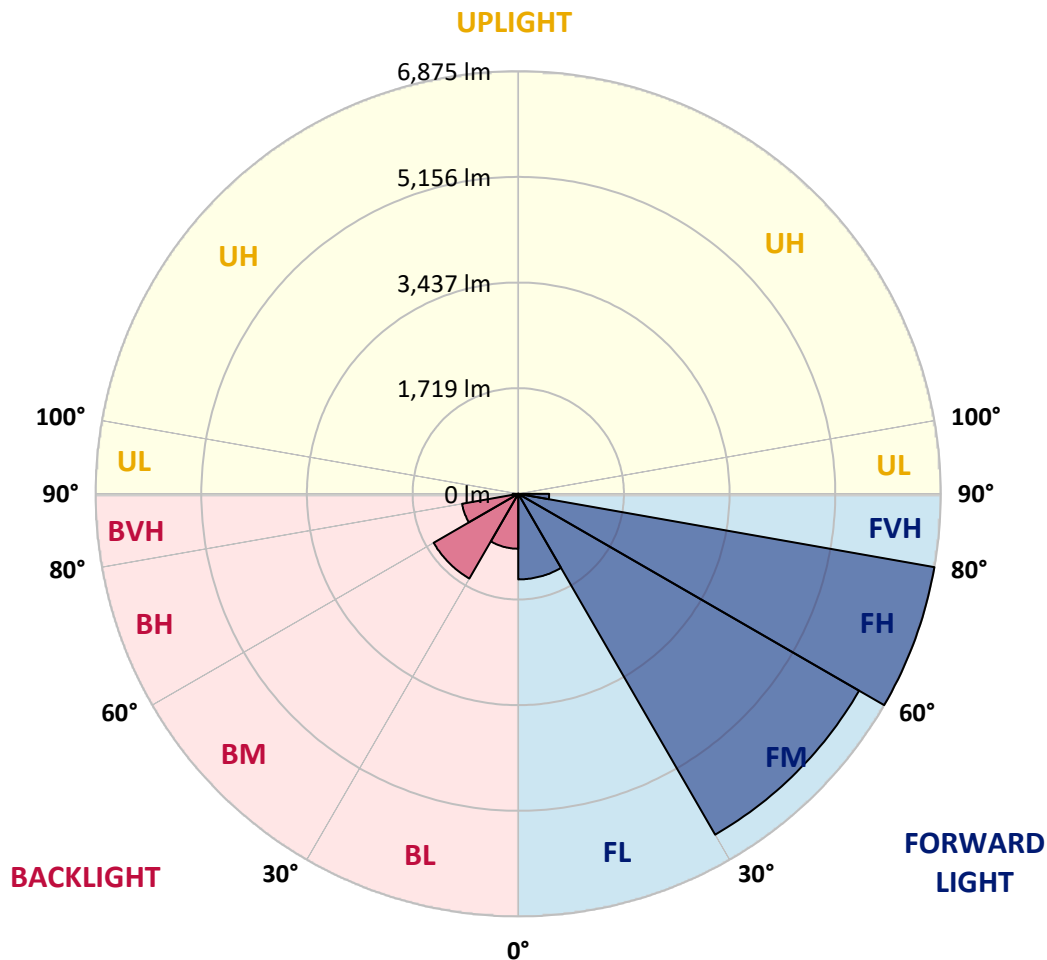


REPORT NUMBER: P966047
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.5	7.5			
FM (30°-60°)	6403.1	34.3			
FH (60°-80°)	6874.6	36.8			G3/7500
FVH (80°-90°)	503.3	2.7			G4/750
BL (0°-30°)	893.9	4.8	B2/1000		
BM (30°-60°)	1590.0	8.5	B2/2500		
BH (60°-80°)	928.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	91.0	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-G4
 Type IV Medium



REPORT NUMBER: P966047
 CATALOG NUMBER: NAV-SB4B-722-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0
2.5°	3457.1	3445.1	3457.1	3452.1	3450.2	3446.2	3447.1	3454.1	3450.2	3455.2	3438.1
5°	3434.1	3427.0	3439.1	3436.1	3449.1	3451.2	3464.2	3472.3	3477.3	3478.2	3465.2
7.5°	3395.9	3388.9	3406.0	3420.0	3448.1	3456.2	3483.3	3496.4	3503.3	3515.4	3496.4
10°	3256.2	3253.2	3295.4	3348.7	3415.0	3456.2	3497.4	3519.4	3530.5	3562.7	3540.6
12.5°	3009.1	3013.1	3068.3	3170.8	3303.5	3436.1	3513.4	3545.6	3562.7	3602.9	3592.8
15°	2772.9	2772.0	2832.3	2941.7	3127.6	3347.6	3521.5	3576.7	3605.8	3665.1	3657.1
17.5°	2636.3	2632.3	2674.5	2757.9	2930.7	3212.0	3501.4	3593.9	3656.1	3730.5	3723.4
20°	2611.2	2603.2	2625.2	2666.4	2789.0	3063.3	3449.1	3593.9	3696.3	3792.7	3788.7
22.5°	2702.6	2689.6	2680.6	2675.6	2729.8	2940.7	3389.9	3581.8	3755.6	3882.2	3875.1
25°	2886.5	2866.4	2820.2	2775.0	2758.9	2885.5	3337.6	3578.8	3844.0	4002.7	3976.6
27.5°	3183.9	3158.7	3065.4	2956.8	2859.3	2913.7	3314.5	3596.8	3941.4	4130.3	4078.1
30°	3552.6	3525.5	3407.9	3241.2	3066.4	3018.1	3343.7	3650.0	4066.0	4300.1	4197.7
32.5°	3883.2	3853.0	3752.5	3582.8	3346.6	3198.9	3436.1	3751.5	4262.0	4536.2	4377.5
35°	4176.6	4141.4	4050.9	3894.2	3690.3	3453.1	3602.9	3931.4	4540.2	4920.0	4621.6
37.5°	4463.9	4422.7	4324.3	4158.4	4015.7	3791.8	3832.9	4162.4	4910.0	5386.2	4945.1
40°	4785.4	4726.1	4606.6	4442.8	4304.2	4188.6	4135.4	4445.8	5285.7	5906.7	5349.1
42.5°	5096.8	5040.5	4897.9	4758.3	4584.4	4551.3	4486.0	4777.3	5696.6	6478.3	5759.0
45°	5432.4	5365.1	5192.2	5015.4	4906.0	4792.4	4825.6	5108.9	6099.6	7061.0	6189.0
47.5°	5746.9	5671.5	5467.6	5270.7	5210.4	4995.3	5137.0	5473.6	6518.5	7651.8	6614.9
50°	5916.7	5842.3	5672.6	5494.7	5447.5	5245.5	5474.6	5874.5	6957.5	8240.6	7023.8
52.5°	6058.4	5978.0	5755.9	5657.5	5643.4	5517.8	5890.6	6332.7	7396.6	8761.0	7418.7
55°	6209.0	6119.7	5836.3	5747.9	5812.2	5823.2	6383.9	6852.0	7860.7	9268.4	7791.4
57.5°	6382.9	6269.3	5913.6	5824.3	5977.0	6181.0	6950.5	7390.6	8317.0	9738.5	8123.0
60°	6546.6	6432.1	6062.4	5945.8	6154.8	6595.9	7600.6	8042.7	8833.3	10157.5	8436.5
62.5°	6578.8	6484.4	6181.0	6179.9	6395.9	7080.1	8370.2	8700.7	9284.4	10571.4	8717.7
65°	6022.2	5962.9	5783.0	6170.9	6741.5	7777.4	9227.2	9542.6	9858.1	10933.2	8965.0
67.5°	4583.4	4591.5	4578.4	5326.9	6462.2	8779.0	10467.9	10443.8	10566.4	11339.1	9249.3
70°	2095.8	2143.1	2450.5	3677.2	5177.2	8894.6	12519.6	12207.1	11455.6	11864.5	9495.4
72.5°	1132.3	1168.5	1294.1	1781.3	3112.5	7908.0	14052.7	14274.8	12638.1	12218.1	9225.1
75°	830.9	851.0	938.4	1132.3	1307.1	5877.5	13503.1	14642.5	12785.8	11393.3	7966.3
77.5°	621.9	631.0	702.3	897.2	669.1	3098.5	10789.5	12126.7	10945.2	9360.8	5884.5
80°	451.1	461.1	514.4	673.1	469.2	1133.3	7408.7	8511.8	7496.0	5966.9	2932.7
82.5°	311.5	315.5	338.6	458.2	327.5	440.0	4203.6	4991.3	4184.6	2093.8	791.7
85°	187.9	192.9	203.0	267.2	185.8	209.0	1814.5	1876.8	1250.8	500.3	246.1
87.5°	77.4	82.4	90.4	112.5	73.4	58.3	299.4	375.8	234.1	146.7	76.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P966047
 CATALOG NUMBER: NAV-SB4B-722-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0	3428.0
2.5°	3433.0	3426.1	3406.9	3380.9	3356.7	3326.5	3313.5	3302.4	3292.4	3273.3	3264.3
5°	3454.1	3435.1	3383.8	3317.5	3242.2	3159.8	3079.4	3024.2	2976.9	2941.7	2912.6
7.5°	3486.3	3450.2	3356.7	3221.1	3048.2	2871.4	2711.6	2598.2	2512.8	2481.6	2427.4
10°	3519.4	3476.3	3313.5	3074.4	2776.0	2503.7	2291.7	2175.2	2106.9	2084.7	2050.6
12.5°	3558.6	3495.4	3246.2	2870.4	2471.6	2173.2	1988.3	1920.0	1884.8	1872.8	1875.7
15°	3615.9	3511.4	3144.7	2615.2	2181.2	1932.0	1812.5	1765.3	1747.2	1746.2	1750.2
17.5°	3659.1	3514.4	2987.0	2341.9	1958.2	1786.4	1687.9	1669.8	1681.8	1700.0	1707.0
20°	3707.3	3487.4	2780.0	2092.7	1801.4	1658.8	1617.6	1629.6	1658.8	1684.9	1693.9
22.5°	3741.5	3438.1	2529.8	1898.9	1665.8	1585.4	1583.4	1608.5	1624.6	1637.6	1644.7
25°	3771.7	3354.7	2264.6	1736.1	1554.3	1541.2	1563.3	1555.2	1544.3	1555.2	1562.3
27.5°	3793.7	3223.1	2027.4	1593.5	1475.9	1511.1	1498.0	1479.9	1478.9	1484.9	1495.0
30°	3786.8	3047.2	1832.6	1457.9	1420.6	1454.8	1423.6	1420.6	1417.7	1420.6	1431.7
32.5°	3786.8	2847.3	1682.8	1364.4	1385.5	1372.4	1369.4	1362.3	1350.3	1349.3	1362.3
35°	3807.8	2647.4	1554.3	1314.2	1356.4	1325.2	1327.2	1310.2	1285.0	1272.9	1285.0
37.5°	3851.0	2486.6	1426.7	1290.1	1305.1	1304.1	1296.1	1266.9	1222.7	1184.5	1197.6
40°	3955.5	2439.4	1339.3	1279.0	1280.9	1293.0	1271.9	1215.6	1115.2	1052.9	1061.0
42.5°	4119.3	2518.7	1320.2	1251.8	1265.0	1276.9	1235.7	1105.2	1033.8	996.7	996.7
45°	4327.2	2657.4	1361.4	1212.7	1226.7	1247.8	1125.2	1062.9	1030.8	1031.9	1036.9
47.5°	4590.5	2803.1	1437.8	1178.5	1171.5	1183.6	1052.0	1013.7	969.5	980.6	1008.7
50°	4894.9	2950.8	1510.0	1132.3	1110.2	1071.0	1004.7	968.5	912.2	886.1	893.2
52.5°	5224.4	3093.4	1539.2	1076.0	1043.9	998.7	972.5	928.3	860.0	816.8	815.8
55°	5536.9	3223.1	1507.1	1008.7	977.5	942.4	938.4	911.2	837.9	777.7	777.7
57.5°	5832.2	3331.6	1426.7	940.4	910.3	889.2	916.2	903.2	810.8	733.4	729.4
60°	6082.5	3406.0	1310.2	871.0	849.9	839.0	880.2	876.1	772.6	686.2	683.2
62.5°	6281.4	3435.1	1181.5	804.7	799.7	779.6	829.8	829.8	724.4	640.0	636.9
65°	6437.1	3406.9	1050.9	739.4	749.5	719.3	768.5	762.6	673.1	598.8	594.8
67.5°	6574.8	3314.5	906.2	675.2	698.2	660.1	704.3	690.2	616.8	557.6	553.6
70°	6636.1	3099.5	741.5	610.9	639.0	601.8	640.0	613.9	553.6	513.4	505.3
72.5°	6143.7	2576.0	583.7	543.6	567.6	537.5	570.7	540.5	485.2	467.2	452.1
75°	5082.8	1933.0	449.1	470.2	488.3	465.1	487.3	465.1	414.9	428.0	390.8
77.5°	3691.2	1305.1	343.6	392.9	400.9	388.8	408.0	382.8	337.5	334.6	319.5
80°	1835.6	764.5	269.3	310.5	307.4	299.4	321.5	309.4	271.3	287.3	284.3
82.5°	531.5	327.5	195.9	218.0	212.0	214.0	230.1	236.1	353.6	350.7	358.6
85°	166.8	128.6	117.6	121.6	115.5	118.6	135.6	269.3	249.2	145.7	157.7
87.5°	43.2	44.2	29.1	31.2	32.2	38.1	43.2	163.8	78.4	51.2	54.2
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)