

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: P964466

Luminaire Tested: **NAV-SB3C-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964466  
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-SB3C-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

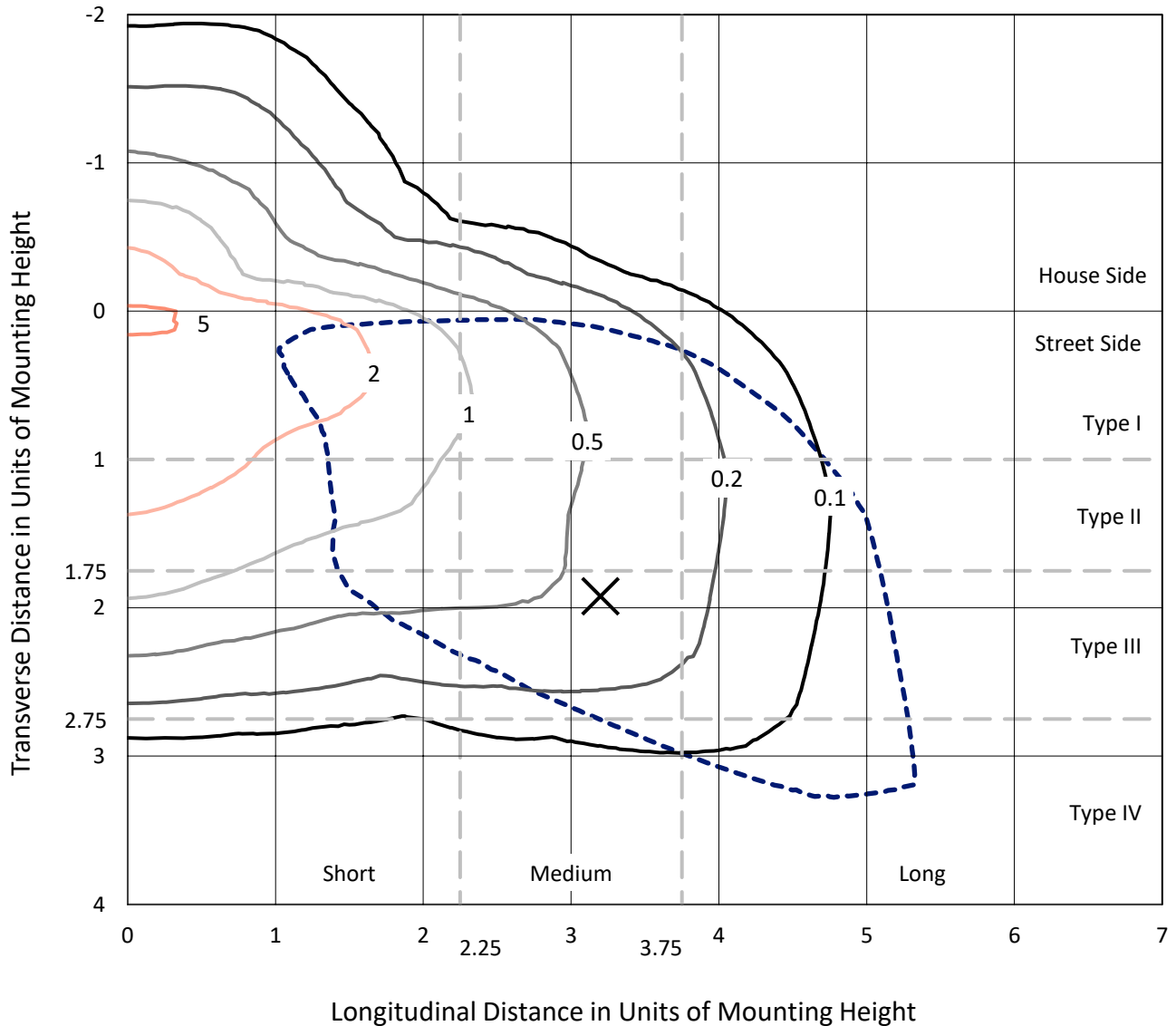
Lumens per Lamp: N/A  
Luminaire Lumens: 18594.5 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

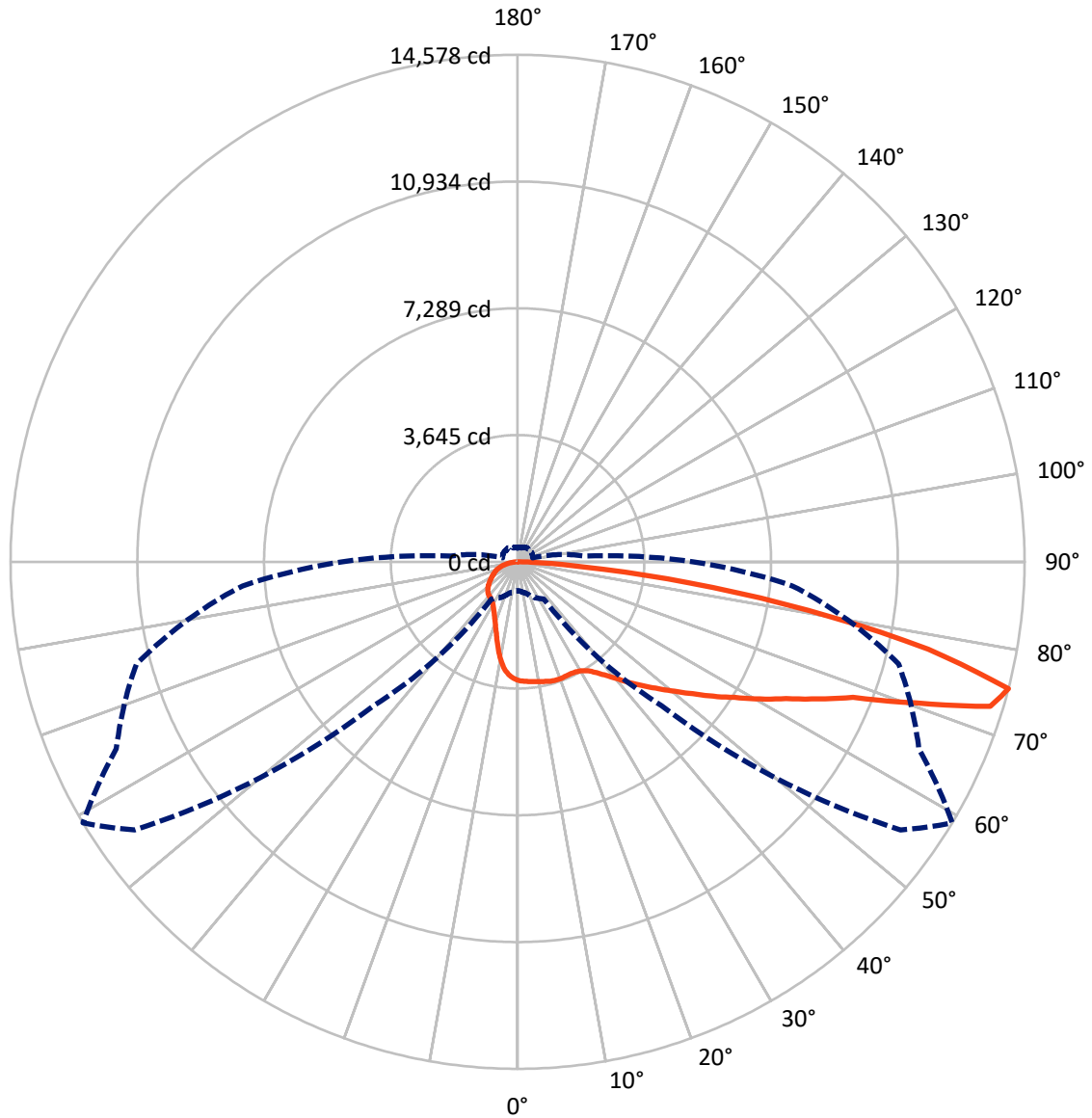
✕ Max cd  
 - - - 1/2 Max cd



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

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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
<b>House Side</b>	Lumens	3487.5	0.0	3487.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15107.0	0.0	15107.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	18594.5	0.0	18594.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	1.6
10°-20°	782.2	4.2
20°-30°	1188.1	6.4
30°-40°	1766.1	9.5
40°-50°	2626.6	14.1
50°-60°	3565.3	19.2
60°-70°	4352.6	23.4
70°-80°	3415.9	18.4
80°-90°	591.7	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°	18594.5	100.0
0°-180°	18594.5	100.0

**Coefficient of Utilization**

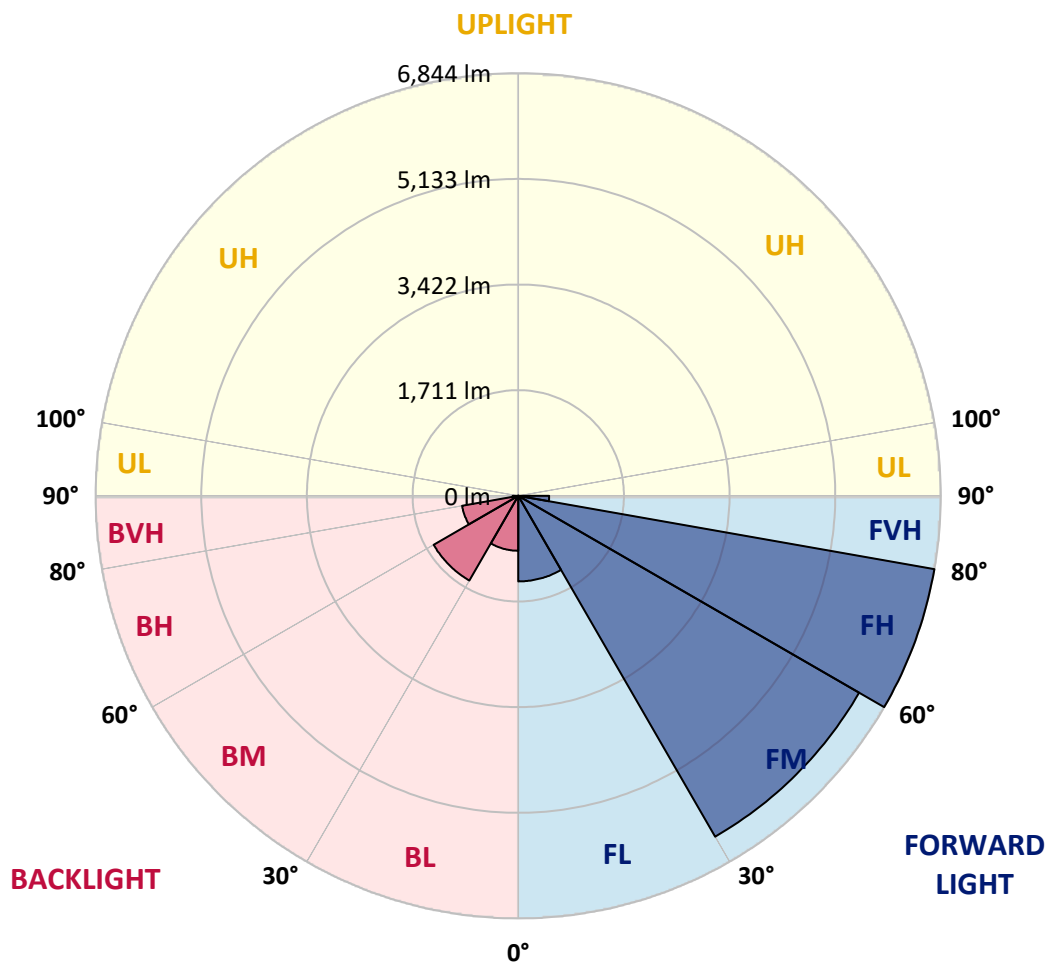


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.4	7.5			
FM (30°-60°)	6375.0	34.3			
FH (60°-80°)	6844.5	36.8			G3/7500
FVH (80°-90°)	501.1	2.7			G4/750
BL (0°-30°)	890.0	4.8	B2/1000		
BM (30°-60°)	1583.0	8.5	B2/2500		
BH (60°-80°)	924.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	90.6	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9
2.5°	3442.0	3430.0	3442.0	3437.0	3435.0	3431.0	3432.0	3439.0	3435.0	3440.0	3423.0
5°	3419.0	3412.0	3424.0	3420.9	3434.0	3436.0	3449.0	3457.0	3462.0	3463.0	3449.9
7.5°	3381.0	3374.0	3391.0	3404.9	3433.0	3441.0	3468.0	3481.0	3488.0	3500.0	3481.0
10°	3242.0	3238.9	3280.9	3333.9	3400.0	3441.0	3482.0	3504.0	3515.0	3547.0	3525.0
12.5°	2995.9	2999.9	3054.9	3156.9	3288.9	3420.9	3498.0	3530.0	3547.0	3587.0	3577.0
15°	2760.8	2759.8	2819.8	2928.8	3113.8	3333.0	3506.0	3561.1	3590.1	3649.1	3641.0
17.5°	2624.7	2620.7	2662.7	2745.8	2917.9	3197.9	3486.0	3578.1	3640.1	3714.1	3707.1
20°	2599.7	2591.7	2613.8	2654.7	2776.8	3049.9	3434.0	3578.1	3680.1	3776.1	3772.1
22.5°	2690.7	2677.8	2668.8	2663.8	2717.8	2927.8	3375.0	3566.1	3739.1	3865.1	3858.1
25°	2873.8	2853.8	2807.8	2762.8	2746.8	2872.9	3322.9	3563.0	3827.1	3985.1	3959.2
27.5°	3169.9	3144.9	3051.8	2943.8	2846.8	2900.9	3300.0	3581.0	3924.1	4112.2	4060.1
30°	3537.1	3510.0	3393.0	3226.9	3052.9	3004.9	3329.0	3634.0	4048.1	4281.2	4179.2
32.5°	3866.1	3836.1	3736.1	3567.0	3332.0	3184.9	3420.9	3735.1	4243.2	4516.3	4358.3
35°	4158.2	4123.2	4033.2	3877.2	3674.0	3438.0	3587.0	3914.2	4520.4	4898.4	4601.3
37.5°	4444.3	4403.3	4305.2	4140.2	3998.1	3775.1	3816.1	4144.2	4888.4	5362.6	4923.4
40°	4764.4	4705.4	4586.4	4423.3	4285.2	4170.2	4117.2	4426.3	5262.6	5880.7	5325.5
42.5°	5074.5	5018.4	4876.4	4737.3	4564.3	4531.3	4466.3	4756.4	5671.6	6449.8	5733.6
45°	5408.5	5341.6	5169.5	4993.4	4884.4	4771.4	4804.4	5086.5	6072.7	7030.1	6161.8
47.5°	5721.7	5646.6	5443.6	5247.5	5187.5	4973.4	5114.4	5449.6	6489.9	7618.2	6585.9
50°	5890.7	5816.7	5647.6	5470.5	5423.6	5222.5	5450.5	5848.6	6927.0	8204.4	6993.1
52.5°	6031.7	5951.8	5730.7	5632.6	5618.6	5493.6	5864.6	6304.8	7364.1	8722.5	7386.2
55°	6181.8	6092.8	5810.7	5722.7	5786.6	5797.7	6355.8	6822.0	7826.3	9227.7	7757.2
57.5°	6354.8	6241.8	5887.7	5798.6	5950.7	6153.8	6920.0	7358.2	8280.4	9695.8	8087.4
60°	6517.9	6403.9	6035.7	5919.7	6127.8	6566.9	7567.2	8007.3	8794.5	10113.0	8399.5
62.5°	6549.9	6455.9	6153.8	6152.8	6367.8	7049.0	8333.4	8662.5	9243.7	10525.0	8679.5
65°	5995.7	5936.7	5757.6	6143.7	6711.9	7743.3	9186.7	9500.7	9814.8	10885.1	8925.6
67.5°	4563.3	4571.3	4558.3	5303.6	6433.8	8740.5	10422.0	10398.0	10520.0	11289.2	9208.7
70°	2086.6	2133.6	2439.7	3661.1	5154.5	8855.6	12464.6	12153.5	11405.3	11812.4	9453.7
72.5°	1127.3	1163.4	1288.3	1773.6	3098.9	7873.2	13991.0	14212.1	12582.6	12164.5	9184.6
75°	827.3	847.3	934.3	1127.3	1301.3	5851.7	13443.9	14578.2	12729.7	11343.3	7931.2
77.5°	619.2	628.2	699.2	893.3	666.1	3084.8	10742.1	12073.5	10897.2	9319.7	5858.7
80°	449.2	459.1	512.2	670.1	467.1	1128.3	7376.1	8474.4	7463.1	5940.7	2919.8
82.5°	310.1	314.1	337.1	456.1	326.1	438.1	4185.2	4969.4	4166.2	2084.6	788.2
85°	187.1	192.1	202.0	266.1	185.0	208.1	1806.6	1868.6	1245.4	498.2	245.1
87.5°	77.0	82.0	90.0	112.0	73.0	58.0	298.1	374.1	233.1	146.1	76.1
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°	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9	3412.9
2.5°	3418.0	3411.0	3391.9	3366.0	3342.0	3312.0	3299.0	3288.0	3278.0	3259.0	3250.0
5°	3439.0	3420.0	3369.0	3303.0	3227.9	3145.9	3065.9	3010.8	2963.9	2928.8	2899.8
7.5°	3471.0	3435.0	3342.0	3206.9	3034.9	2858.8	2699.7	2586.8	2501.7	2470.8	2416.7
10°	3504.0	3461.0	3299.0	3060.9	2763.8	2492.7	2281.6	2165.6	2097.6	2075.6	2041.6
12.5°	3543.0	3480.0	3231.9	2857.8	2460.7	2163.7	1979.6	1911.5	1876.6	1864.6	1867.5
15°	3600.0	3496.0	3130.9	2603.7	2171.7	1923.5	1804.5	1757.5	1739.5	1738.5	1742.5
17.5°	3643.1	3499.0	2973.8	2331.7	1949.5	1778.5	1680.5	1662.4	1674.4	1692.5	1699.4
20°	3691.0	3472.0	2767.8	2083.6	1793.5	1651.5	1610.5	1622.5	1651.5	1677.5	1686.5
22.5°	3725.1	3423.0	2518.7	1890.5	1658.4	1578.5	1576.4	1601.5	1617.4	1630.5	1637.4
25°	3755.1	3340.0	2254.7	1728.5	1547.4	1534.4	1556.5	1548.5	1537.4	1548.5	1555.4
27.5°	3777.1	3209.0	2018.5	1586.5	1469.4	1504.4	1491.5	1473.4	1472.4	1478.5	1488.4
30°	3770.1	3033.9	1824.5	1451.4	1414.4	1448.4	1417.4	1414.4	1411.4	1414.4	1425.4
32.5°	3770.1	2834.8	1675.5	1358.4	1379.4	1366.4	1363.4	1356.4	1344.4	1343.4	1356.4
35°	3791.1	2635.8	1547.4	1308.4	1350.4	1319.4	1321.4	1304.4	1279.4	1267.4	1279.4
37.5°	3834.1	2475.7	1420.4	1284.3	1299.4	1298.4	1290.4	1261.4	1217.4	1179.4	1192.4
40°	3938.2	2428.7	1333.4	1273.4	1275.4	1287.4	1266.4	1210.3	1110.3	1048.3	1056.3
42.5°	4101.2	2507.8	1314.4	1246.4	1259.3	1271.4	1230.3	1100.3	1029.3	992.3	992.3
45°	4308.3	2645.7	1355.4	1207.3	1221.4	1242.4	1120.3	1058.3	1026.3	1027.3	1032.3
47.5°	4570.3	2790.8	1431.4	1173.3	1166.3	1178.3	1047.3	1009.3	965.2	976.3	1004.3
50°	4873.4	2937.9	1503.5	1127.3	1105.4	1066.3	1000.3	964.3	908.3	882.2	889.3
52.5°	5201.5	3079.9	1532.5	1071.3	1039.4	994.2	968.3	924.2	856.3	813.2	812.2
55°	5512.6	3209.0	1500.4	1004.3	973.2	938.3	934.3	907.2	834.2	774.2	774.2
57.5°	5806.6	3317.0	1420.4	936.2	906.3	885.3	912.2	899.2	807.2	730.2	726.2
60°	6055.7	3391.0	1304.4	867.3	846.2	835.3	876.3	872.3	769.3	683.2	680.2
62.5°	6253.8	3420.0	1176.3	801.2	796.2	776.2	826.3	826.3	721.2	637.1	634.2
65°	6408.8	3391.9	1046.3	736.3	746.2	716.2	765.3	759.2	670.1	596.1	592.1
67.5°	6545.9	3300.0	902.3	672.2	695.2	657.2	701.2	687.2	614.2	555.1	551.1
70°	6606.9	3085.9	738.2	608.1	636.2	599.2	637.1	611.2	551.1	511.2	503.2
72.5°	6116.8	2564.8	581.2	541.2	565.2	535.2	568.2	538.1	483.2	465.1	450.2
75°	5060.4	1924.5	447.1	468.1	486.2	463.1	485.1	463.1	413.1	426.1	389.1
77.5°	3675.0	1299.4	342.1	391.1	399.1	387.1	406.1	381.1	336.1	333.1	318.1
80°	1827.6	761.3	268.0	309.1	306.1	298.1	320.1	308.1	270.1	286.1	283.1
82.5°	529.1	326.1	195.1	217.1	211.0	213.1	229.1	235.0	352.1	349.1	357.1
85°	166.0	128.0	117.1	121.1	115.0	118.1	135.0	268.0	248.0	145.0	157.0
87.5°	43.0	44.0	29.0	31.1	32.0	38.0	43.0	163.1	78.0	51.0	54.0
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)