

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: P962074

Luminaire Tested: **NAV-SB2B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962074
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-SB2B-830-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

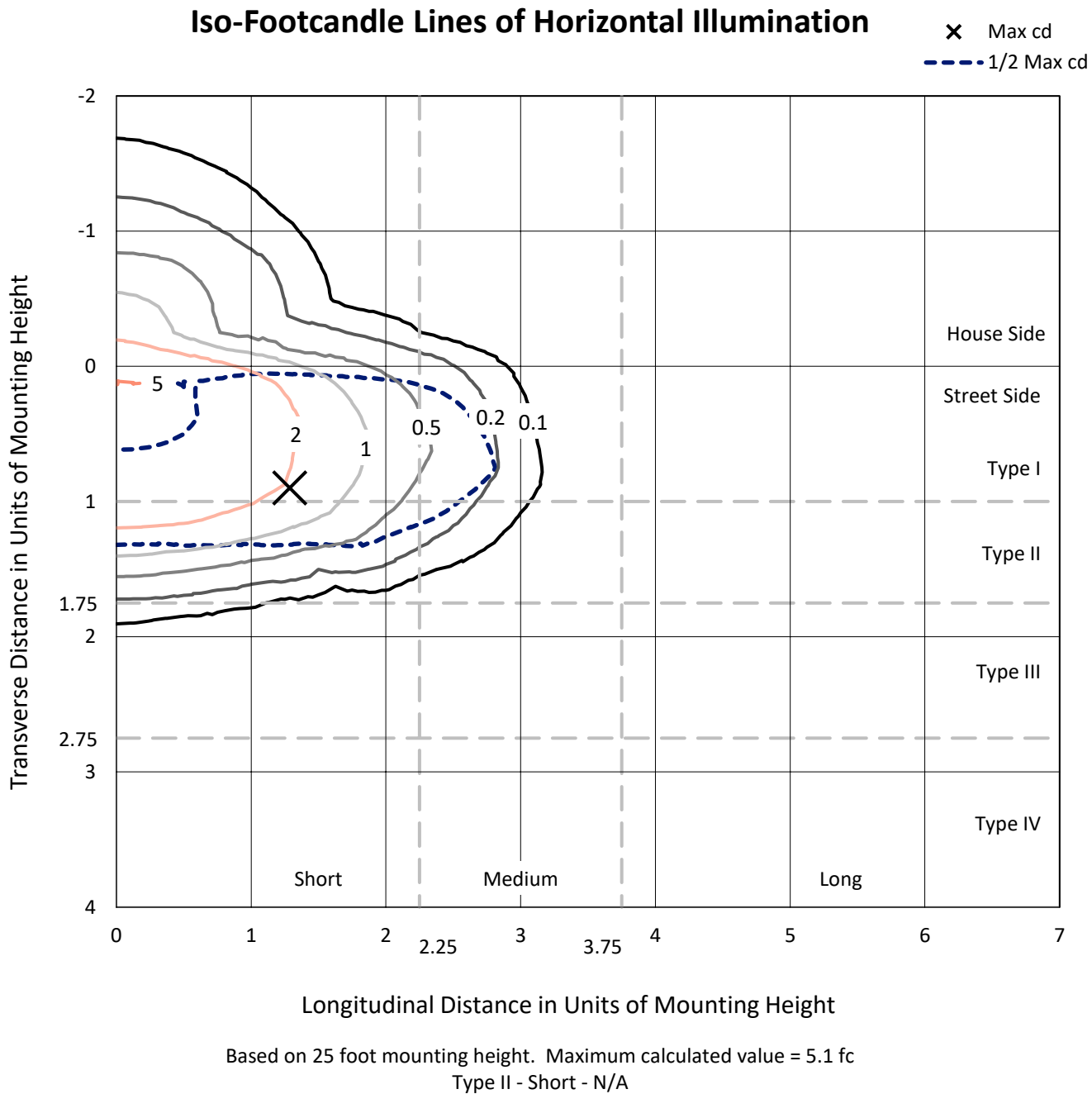
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10548.3 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 73.9
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

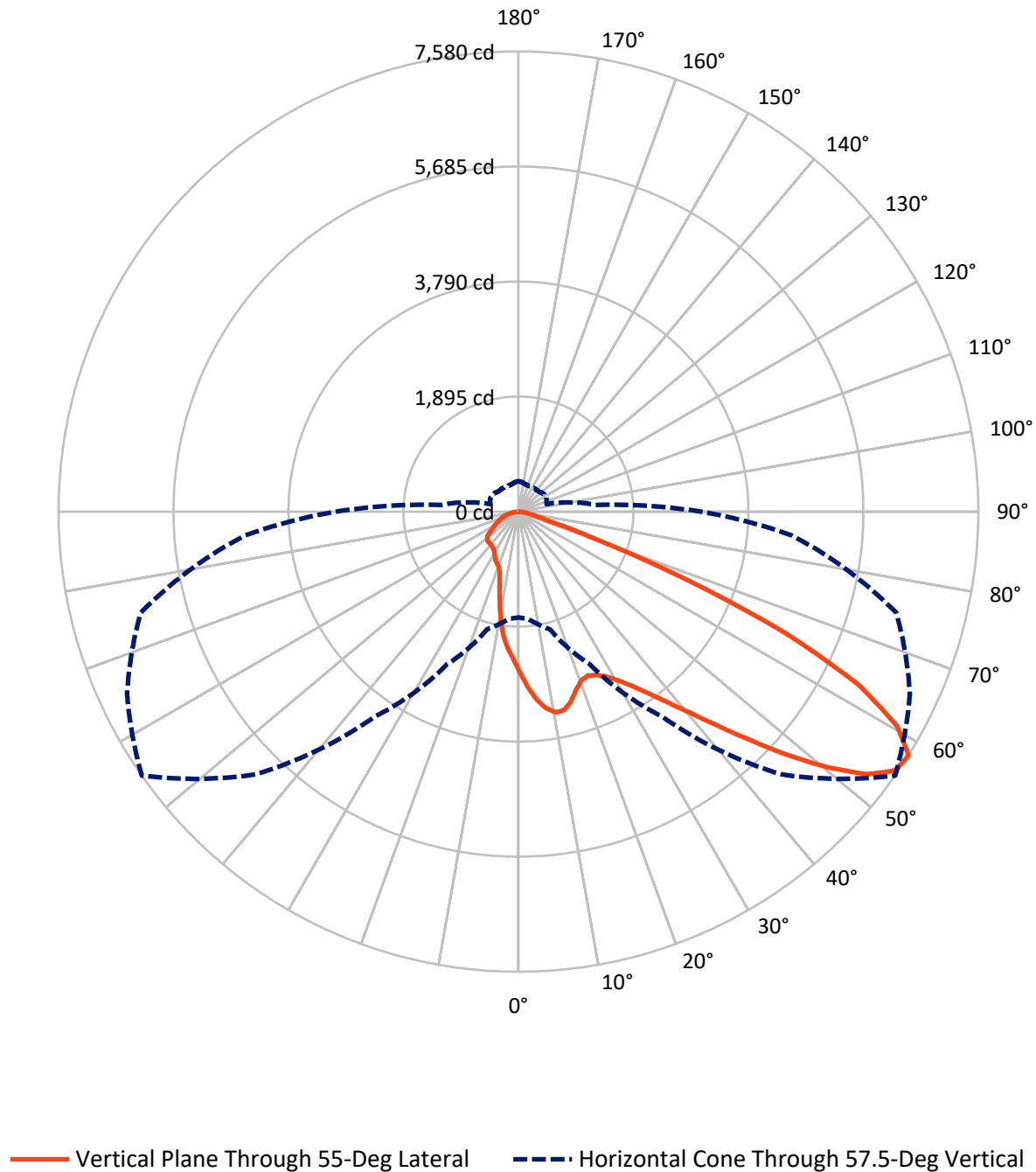


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.7	0.0	1908.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8639.6	0.0	8639.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	10548.3	0.0	10548.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	2.3
10°-20°	619.1	5.9
20°-30°	987.8	9.4
30°-40°	1564.0	14.8
40°-50°	2393.8	22.7
50°-60°	2564.0	24.3
60°-70°	1613.0	15.3
70°-80°	477.0	4.5
80°-90°	84.3	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°	10548.3	100.0
0°-180°	10548.3	100.0

Coefficient of Utilization



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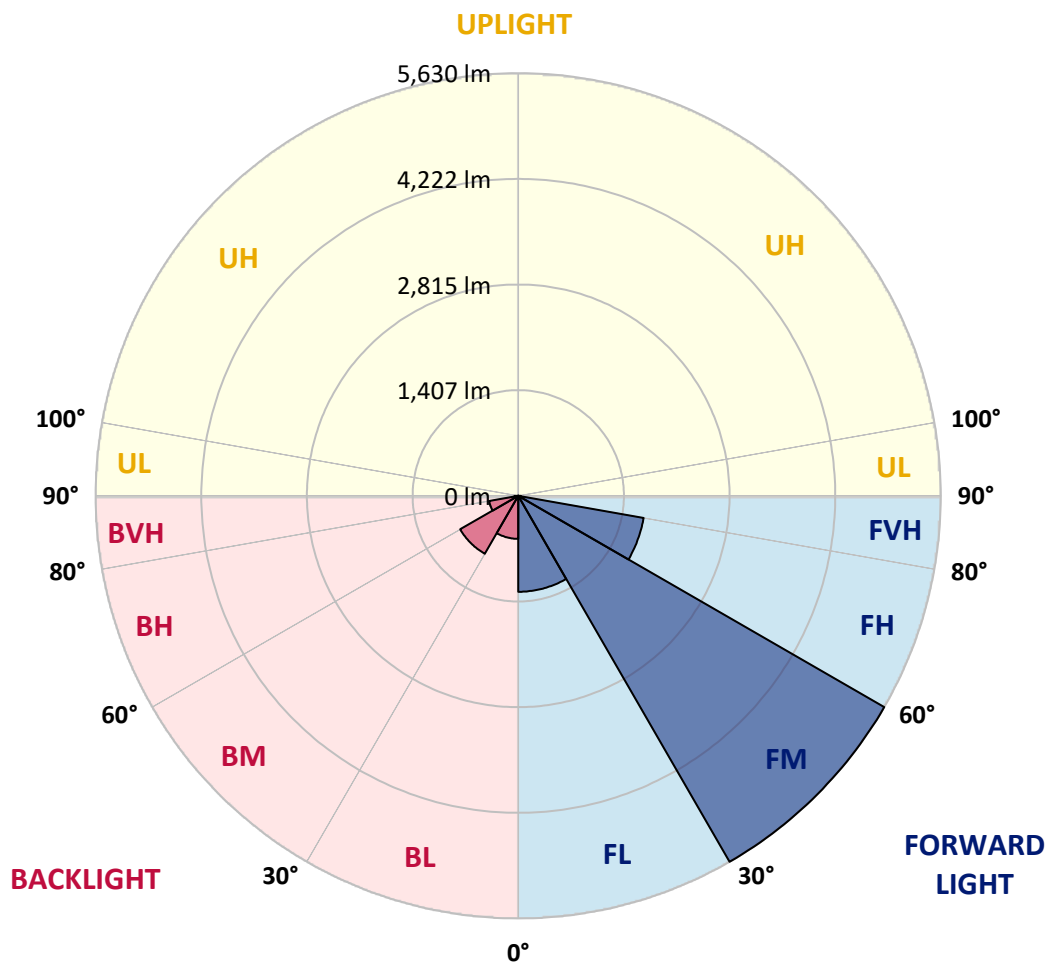
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.5	12.1			
FM	(30°-60°)	5629.7	53.4			
FH	(60°-80°)	1695.8	16.1			G1/1800
FVH	(80°-90°)	35.6	0.3			G1/100
BL	(0°-30°)	573.7	5.4	B2/1000		
BM	(30°-60°)	892.1	8.5	B1/1000		
BH	(60°-80°)	394.2	3.7	B1/500		G1/500
BVH	(80°-90°)	48.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1
2.5°	3032.4	3030.2	3042.2	3001.3	2973.5	2935.9	2886.3	2823.0	2754.8	2682.8	2651.8
5°	3305.6	3286.5	3299.1	3268.5	3238.0	3181.3	3107.7	3004.6	2878.6	2735.2	2658.8
7.5°	3262.5	3249.5	3281.6	3308.9	3331.8	3324.7	3270.7	3162.7	3000.2	2791.9	2681.2
10°	2915.2	2900.4	2945.6	3040.0	3178.5	3299.1	3364.5	3297.4	3124.5	2854.1	2703.0
12.5°	2608.7	2601.7	2631.6	2707.9	2861.7	3092.9	3352.5	3415.2	3253.8	2927.7	2732.4
15°	2477.8	2469.1	2488.2	2526.9	2625.0	2840.5	3243.4	3495.9	3380.9	3012.8	2779.4
17.5°	2448.9	2439.1	2447.3	2467.5	2530.7	2694.8	3078.8	3535.7	3513.4	3107.7	2818.6
20°	2502.3	2494.2	2495.3	2494.2	2538.3	2668.7	2964.2	3520.5	3628.9	3194.9	2856.8
22.5°	2631.6	2618.0	2618.6	2589.7	2613.6	2714.5	2934.3	3479.6	3732.0	3271.3	2885.7
25°	2842.1	2817.5	2822.4	2748.8	2742.3	2817.0	2981.1	3447.9	3834.5	3332.3	2891.1
27.5°	3130.0	3102.2	3087.5	2977.8	2925.6	2962.6	3076.5	3458.9	3931.6	3385.2	2877.5
30°	3489.9	3456.1	3426.1	3270.7	3175.9	3162.2	3224.9	3530.8	4046.1	3440.8	2854.1
32.5°	3931.1	3891.8	3837.3	3631.2	3497.5	3426.1	3416.8	3658.9	4180.3	3511.8	2842.1
35°	4456.2	4404.9	4327.4	4060.8	3891.8	3745.7	3669.8	3843.7	4364.0	3618.6	2855.8
37.5°	4997.1	4939.3	4868.4	4551.0	4343.3	4127.9	3978.5	4094.7	4608.8	3763.6	2891.7
40°	5496.0	5431.2	5365.2	5082.7	4859.7	4600.1	4356.4	4412.0	4908.2	3937.0	2952.8
42.5°	5790.5	5742.6	5717.4	5564.7	5392.4	5129.1	4826.4	4788.3	5244.6	4136.6	3022.6
45°	5777.4	5757.8	5835.2	5898.5	5857.6	5711.4	5377.2	5204.3	5582.3	4309.5	3086.9
47.5°	5468.8	5481.9	5654.7	6010.3	6166.8	6243.1	6004.2	5612.7	5875.6	4438.8	3115.8
50°	4629.0	4640.0	5040.2	5806.8	6246.3	6676.6	6626.4	6011.3	6103.0	4517.8	3109.2
52.5°	3964.3	3971.4	4143.2	5203.7	5983.5	6894.8	7187.0	6387.1	6269.3	4539.6	3072.7
55°	2986.0	3010.6	3203.1	4082.7	5299.8	6721.8	7528.4	6774.2	6374.5	4541.8	3034.6
57.5°	1744.4	1771.1	2008.9	2771.2	4119.2	6119.4	7580.2	7117.8	6445.9	4524.3	3011.7
60°	854.4	865.9	969.5	1456.5	2540.0	4958.4	7163.5	7284.1	6485.8	4515.0	3010.6
62.5°	575.8	574.2	578.5	718.7	1251.4	3185.6	6295.4	6992.9	6464.5	4479.7	2999.7
65°	495.2	489.1	472.7	504.4	648.3	1457.0	4864.0	6123.7	6302.5	4390.7	2924.9
67.5°	428.0	428.6	429.2	419.3	463.0	672.4	2972.4	4823.6	5721.2	3969.7	2637.0
70°	354.4	359.4	361.5	361.5	377.3	441.2	1268.9	3306.1	4512.9	3112.5	2123.9
72.5°	322.8	312.4	313.5	308.1	308.1	335.9	511.0	1874.2	2843.1	1750.9	1296.2
75°	263.4	269.9	271.0	267.2	254.6	256.2	303.2	786.3	1216.6	726.3	640.7
77.5°	227.3	227.3	229.6	226.8	217.0	192.0	202.3	304.8	413.9	297.8	320.1
80°	182.7	182.1	191.4	196.9	181.6	141.8	129.3	168.5	183.8	130.9	166.4
82.5°	88.9	94.3	131.4	150.0	138.0	102.5	79.0	104.7	98.2	57.8	74.7
85°	51.8	49.1	58.9	83.4	79.0	56.7	38.1	54.5	51.2	29.4	30.0
87.5°	16.4	15.3	12.0	28.4	22.9	15.8	10.4	15.8	14.1	6.6	6.6
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°	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1	2643.1
2.5°	2613.0	2548.8	2484.9	2426.6	2391.1	2368.3	2345.3	2319.7	2309.8	2295.2
5°	2586.9	2462.6	2351.9	2256.4	2169.7	2101.6	2032.9	1977.2	1952.2	1969.0
7.5°	2571.6	2391.6	2221.0	2046.0	1877.5	1742.8	1625.5	1543.2	1506.1	1515.4
10°	2558.0	2311.5	2051.4	1775.0	1532.8	1366.0	1246.0	1183.3	1159.9	1164.7
12.5°	2545.5	2221.6	1846.9	1483.2	1225.8	1115.7	1081.4	1081.9	1086.2	1089.5
15°	2543.2	2113.0	1618.5	1228.1	1060.1	1053.0	1090.1	1113.5	1126.1	1129.9
17.5°	2540.0	1983.3	1385.6	1054.1	1019.7	1067.7	1102.1	1117.4	1127.1	1127.7
20°	2526.9	1818.6	1170.8	971.2	1011.0	1052.5	1073.7	1085.7	1093.9	1096.5
22.5°	2486.5	1635.4	1003.4	934.1	976.1	1009.3	1034.4	1048.1	1053.0	1056.3
25°	2414.1	1430.3	887.8	898.6	927.5	969.5	989.7	992.4	990.8	995.7
27.5°	2319.2	1210.5	815.8	850.6	887.8	923.7	934.6	933.0	929.8	935.2
30°	2204.7	1013.2	770.0	796.6	847.4	880.1	889.9	886.1	879.6	885.6
32.5°	2083.6	851.8	732.4	759.0	814.2	846.3	856.1	852.3	847.4	852.3
35°	1970.7	738.9	697.4	734.0	787.9	819.6	832.1	832.7	832.7	838.7
37.5°	1867.1	672.9	668.5	718.1	770.0	798.3	816.3	817.4	794.0	795.6
40°	1771.1	645.1	655.5	707.8	752.6	779.8	780.8	719.8	676.7	675.6
42.5°	1692.6	639.6	659.3	706.7	739.9	741.1	664.2	616.7	604.8	605.3
45°	1619.0	638.0	668.0	706.7	721.4	640.2	588.3	575.8	577.0	581.3
47.5°	1536.7	631.5	669.6	696.9	668.0	569.3	554.0	548.6	546.4	547.5
50°	1446.7	608.0	648.9	677.2	576.4	538.7	519.7	518.0	520.8	522.4
52.5°	1351.8	569.8	613.5	641.9	534.4	512.0	490.8	494.6	506.6	510.3
55°	1289.7	525.1	566.5	570.9	504.9	487.0	468.9	477.6	500.0	507.2
57.5°	1273.3	477.6	513.1	508.2	467.3	465.1	454.3	461.9	490.3	500.6
60°	1268.3	435.1	460.7	456.9	430.8	441.2	438.4	442.2	452.0	455.3
62.5°	1230.2	401.3	413.9	408.5	398.1	416.0	422.6	414.4	422.1	425.9
65°	1133.1	374.1	368.1	364.3	368.6	385.0	398.1	381.7	388.8	399.7
67.5°	972.8	337.0	320.6	325.0	338.7	347.4	364.3	345.7	351.7	370.2
70°	786.9	290.1	275.4	287.9	301.0	319.0	321.7	309.1	323.4	344.1
72.5°	556.8	242.6	232.3	257.9	262.3	285.8	279.7	273.8	293.4	300.4
75°	386.1	195.8	189.7	209.4	225.2	245.4	241.0	248.2	289.6	292.8
77.5°	244.3	152.1	148.3	160.8	182.7	205.0	212.1	292.8	494.6	514.2
80°	141.8	113.5	109.1	118.9	138.0	158.7	204.5	359.4	326.1	322.3
82.5°	79.0	78.0	72.6	75.2	92.1	114.5	289.0	253.0	205.6	212.1
85°	37.1	45.8	39.3	37.6	51.8	134.2	193.0	144.5	95.9	93.8
87.5°	9.8	8.7	8.7	9.8	21.8	115.6	76.9	61.6	36.5	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)