

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: P970529

Luminaire Tested: **NAV-SB6B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23811.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

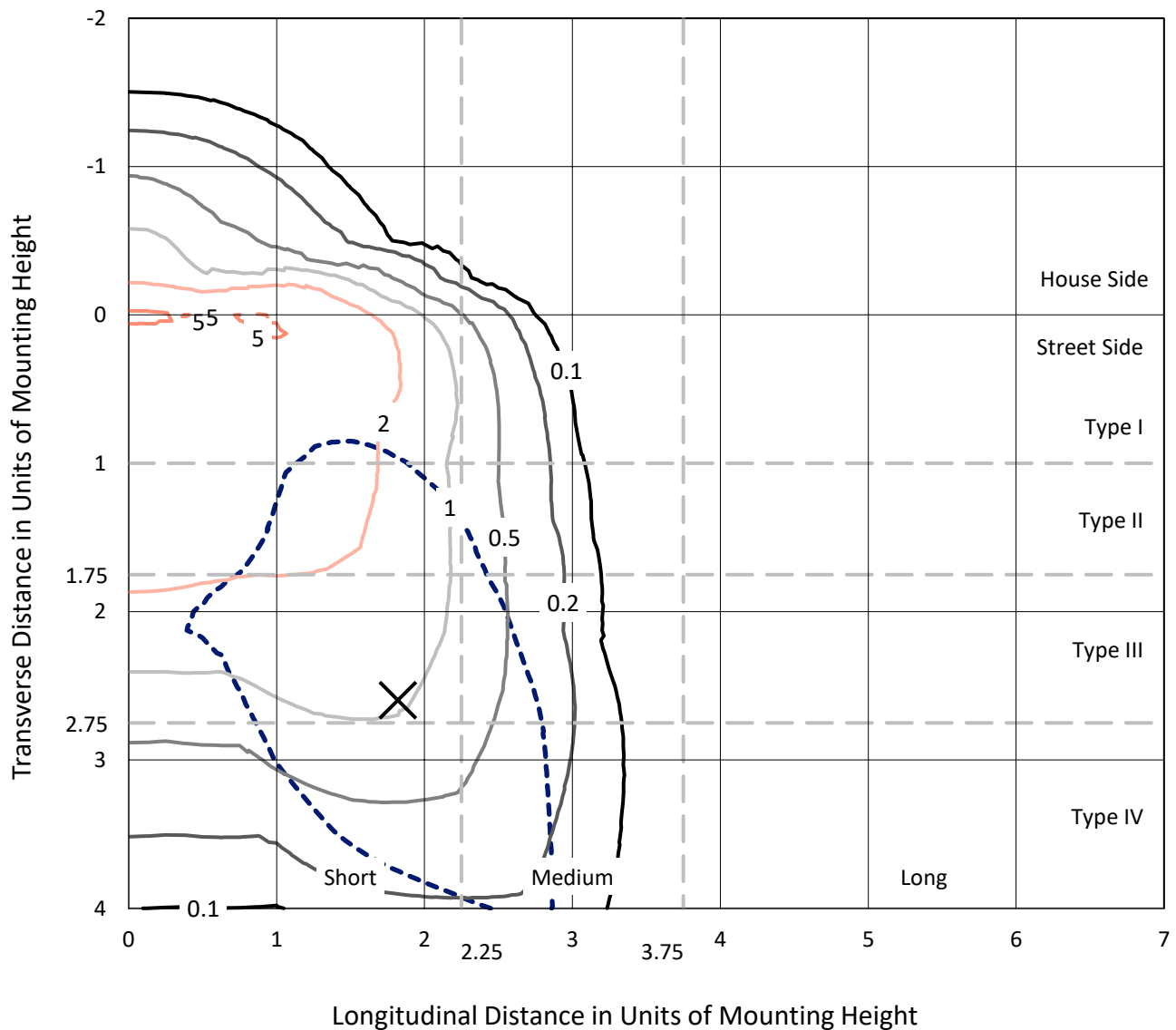
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

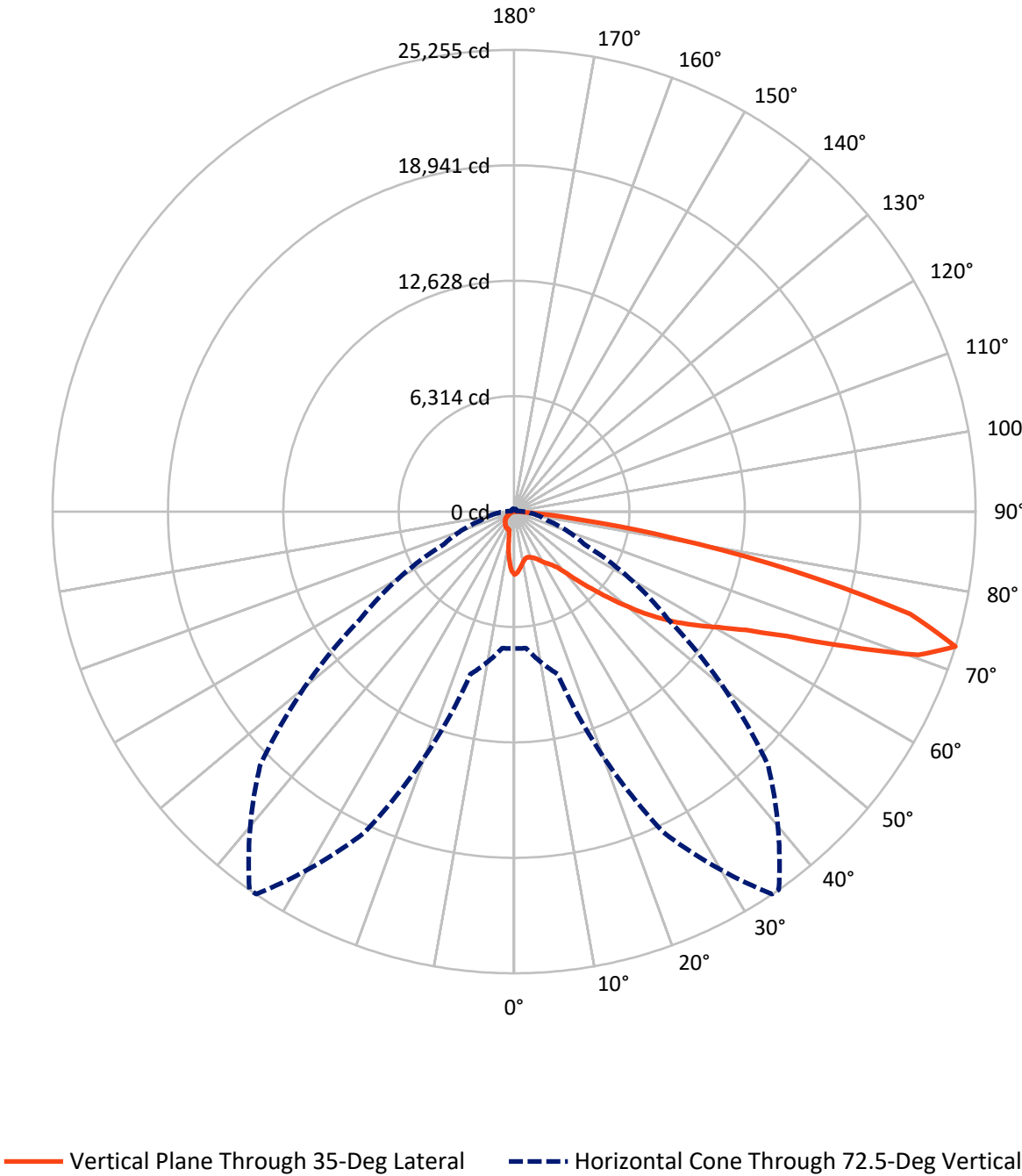
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.9	0.0	2679.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21131.9	0.0	21131.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	23811.8	0.0	23811.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	1.2
10°-20°	663.4	2.8
20°-30°	1077.7	4.5
30°-40°	1798.2	7.6
40°-50°	3402.2	14.3
50°-60°	5406.0	22.7
60°-70°	6687.6	28.1
70°-80°	4157.1	17.5
80°-90°	336.0	1.4
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°	23811.8	100.0
0°-180°	23811.8	100.0

Coefficient of Utilization



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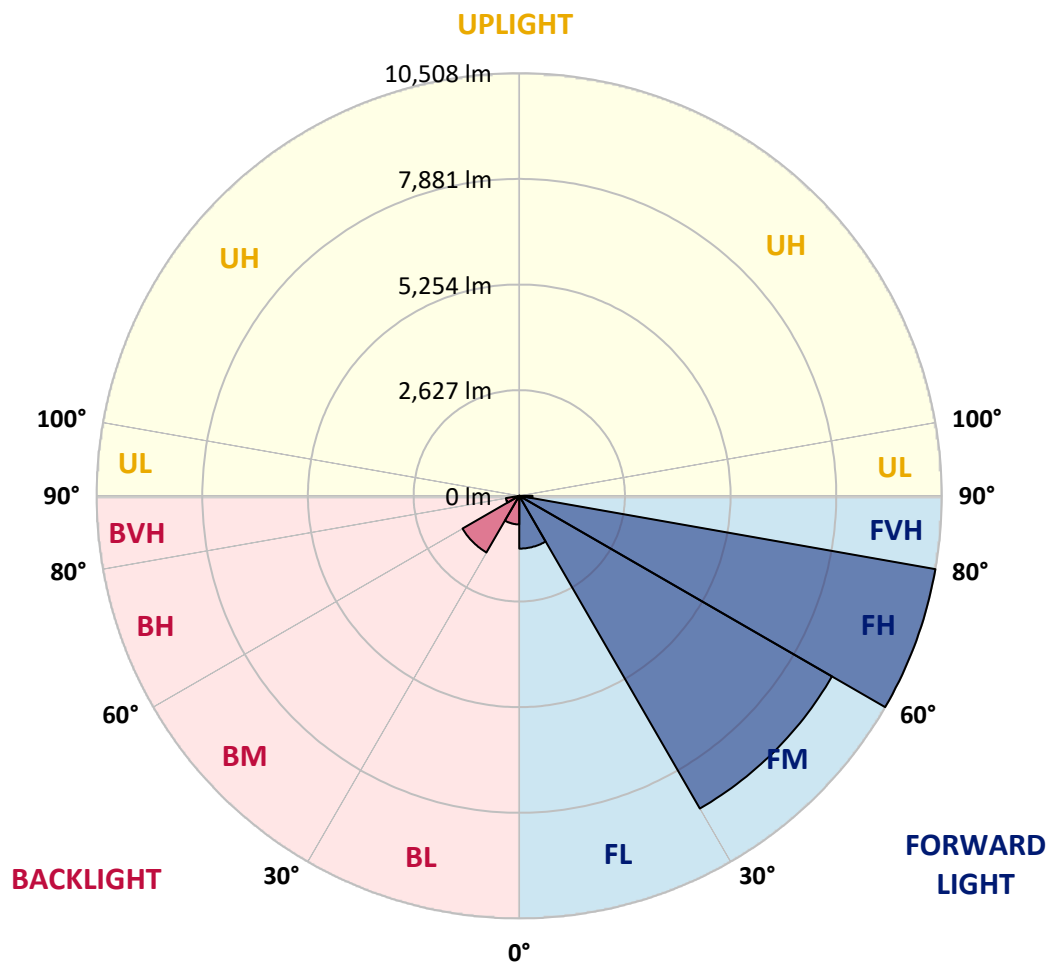
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.6	5.5			
FM	(30°-60°)	8979.4	37.7			
FH	(60°-80°)	10508.4	44.1			G4/12000
FVH	(80°-90°)	331.4	1.4			G3/500
BL	(0°-30°)	712.1	3.0	B2/1000		
BM	(30°-60°)	1627.0	6.8	B2/2500		
BH	(60°-80°)	336.3	1.4	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3297.6	3325.5	3330.7	3339.4	3339.4	3349.9	3367.3	3391.8	3431.9	3452.9	3466.9
5°	3039.3	3060.3	3086.5	3107.4	3147.6	3152.8	3220.9	3287.1	3379.6	3449.3	3498.2
7.5°	2779.4	2803.8	2838.7	2889.3	2941.6	2957.3	3060.3	3172.0	3318.5	3449.3	3531.4
10°	2596.2	2598.0	2629.3	2680.0	2763.7	2782.9	2908.5	3067.3	3250.5	3428.4	3562.8
12.5°	2493.2	2505.5	2519.4	2557.8	2638.0	2650.2	2784.6	2971.3	3182.4	3416.2	3599.4
15°	2493.2	2502.0	2510.7	2529.9	2594.5	2604.9	2723.5	2910.3	3147.6	3421.4	3658.7
17.5°	2519.4	2533.4	2526.4	2549.1	2617.1	2624.1	2728.8	2892.8	3145.8	3454.7	3749.4
20°	2582.3	2592.7	2578.8	2592.7	2660.8	2674.7	2782.9	2926.0	3175.4	3512.2	3862.9
22.5°	2681.7	2686.9	2653.7	2664.3	2734.0	2751.5	2877.1	3020.2	3247.0	3604.6	4014.7
25°	2807.3	2817.8	2767.2	2779.4	2845.7	2866.6	3011.4	3161.5	3360.4	3732.0	4208.3
27.5°	2952.1	2957.3	2913.8	2912.0	2997.5	3027.1	3173.7	3336.0	3512.2	3892.5	4452.6
30°	3117.8	3133.6	3091.7	3084.7	3192.9	3217.4	3362.1	3550.6	3735.5	4133.3	4799.9
32.5°	3248.7	3260.9	3236.5	3254.0	3363.8	3383.1	3590.7	3854.2	4086.3	4475.3	5272.6
35°	3437.1	3444.1	3388.3	3419.7	3545.4	3594.2	3903.0	4279.9	4527.6	4904.5	5890.3
37.5°	4119.4	4119.4	3882.1	3726.8	3847.2	3890.8	4330.5	4815.6	5072.0	5480.3	6668.4
40°	5063.3	5047.6	4700.3	4382.8	4367.1	4452.6	4939.4	5490.7	5775.2	6171.2	7544.3
42.5°	6070.0	6045.6	5572.7	5258.7	5206.4	5236.0	5642.5	6323.0	6612.6	7013.9	8486.5
45°	6963.3	6956.4	6523.6	6101.4	6007.2	6101.4	6520.1	7296.6	7504.2	7926.4	9426.9
47.5°	7711.8	7711.8	7396.0	7120.4	7071.5	7127.3	7708.3	8376.6	8357.3	8898.2	10342.9
50°	8573.7	8566.7	8266.6	8148.0	8198.6	8277.1	9076.2	9514.2	9240.2	9852.6	11161.2
52.5°	9177.4	9219.3	9116.3	9097.2	9355.4	9491.5	10465.0	10627.3	10030.5	10758.2	11773.6
55°	9655.5	9704.3	9823.0	9957.4	10454.6	10632.5	11810.3	11682.8	10691.9	11543.3	12126.1
57.5°	10332.4	10262.6	10445.9	10711.0	11515.4	11730.0	13113.5	12679.1	11224.0	12180.2	12164.4
60°	11154.3	11164.7	11196.1	11531.0	12574.5	12850.1	14397.8	13621.3	11566.0	12570.9	11738.7
62.5°	12141.7	12157.4	12222.0	12736.8	13996.4	14256.4	15765.6	14392.4	11723.0	12461.0	10639.5
65°	12073.7	12140.0	12860.6	14621.0	16158.2	16414.7	17362.1	14933.3	11485.7	11456.0	8662.7
67.5°	10999.0	11107.1	12312.7	16871.8	19417.4	19703.5	19291.7	15039.8	10461.6	8908.7	5651.2
70°	9589.2	9627.5	11077.5	18895.7	23191.2	23480.9	21019.1	13869.1	7938.6	4969.1	2531.6
72.5°	7488.4	7497.3	9198.3	19365.0	25239.6	25255.3	19663.4	10295.8	4269.4	1908.8	879.3
75°	5349.4	5297.1	6160.8	15704.5	22205.5	22383.4	14741.4	4829.5	1631.4	902.0	438.0
77.5°	2868.4	2926.0	3486.0	9313.5	15339.8	15643.4	8043.3	1392.4	830.5	614.2	289.7
80°	886.3	935.2	1429.0	4264.2	8688.9	8872.1	2981.8	619.4	579.2	438.0	190.1
82.5°	279.2	289.7	666.5	1791.9	3606.4	3690.2	863.7	350.7	396.1	289.7	111.6
85°	80.3	82.0	296.6	668.2	891.5	909.0	242.5	136.1	226.8	179.7	57.6
87.5°	8.7	27.9	111.6	111.6	78.5	76.8	26.1	29.6	64.6	22.7	10.5
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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3458.1	3459.9	3437.1	3398.8	3356.9	3322.0	3278.4	3243.5	3219.1	3212.0	3224.3
5°	3482.5	3470.3	3405.8	3288.8	3149.3	3028.9	2894.5	2788.1	2718.3	2688.7	2699.1
7.5°	3519.1	3484.3	3342.9	3112.6	2845.7	2608.4	2367.6	2180.9	2062.3	2003.0	2011.7
10°	3550.6	3480.8	3238.3	2857.9	2449.6	2090.2	1765.7	1540.6	1415.0	1355.7	1357.4
12.5°	3580.2	3479.1	3102.2	2556.0	2003.0	1563.3	1261.5	1149.7	1114.9	1102.7	1099.2
15°	3636.1	3484.3	2931.2	2210.6	1558.1	1181.2	1071.3	1069.5	1076.6	1073.1	1071.3
17.5°	3712.9	3489.5	2737.6	1844.2	1202.1	1041.6	1036.4	1052.1	1062.5	1057.3	1055.5
20°	3812.3	3510.4	2531.6	1481.3	1032.9	1006.8	1019.0	1032.9	1041.6	1032.9	1031.1
22.5°	3951.9	3547.1	2306.6	1189.9	978.8	985.7	996.3	1012.0	1020.7	1008.5	1006.8
25°	4122.9	3604.6	2085.0	1034.6	952.6	961.3	977.0	994.6	1005.0	992.8	991.0
27.5°	4344.5	3697.2	1880.9	999.8	926.5	931.7	954.4	980.5	994.6	978.8	978.8
30°	4665.5	3849.0	1704.6	1015.5	910.7	898.5	930.0	966.6	982.3	968.3	966.6
32.5°	5091.2	4063.5	1596.4	1039.9	903.7	860.2	889.8	937.0	963.1	954.4	954.4
35°	5649.5	4389.8	1554.6	1067.7	898.5	820.0	841.0	891.5	937.0	945.7	945.7
37.5°	6326.5	4843.4	1566.8	1080.0	882.8	786.9	797.3	841.0	900.3	928.2	935.2
40°	7095.9	5372.1	1636.6	1067.7	865.4	759.0	760.8	793.9	846.2	888.1	902.0
42.5°	7889.7	5989.8	1765.7	1022.4	849.7	734.5	729.3	751.9	786.9	816.5	828.7
45°	8645.3	6624.9	1893.1	959.6	830.5	710.1	697.9	706.6	713.6	725.8	732.8
47.5°	9304.7	7071.5	1856.4	902.0	804.3	682.2	661.2	657.7	636.8	635.1	633.3
50°	9760.2	7169.2	1648.8	844.5	766.0	650.8	617.7	596.8	560.1	542.6	544.4
52.5°	9905.0	6783.7	1347.0	786.9	703.2	609.0	561.8	528.7	483.3	467.6	465.9
55°	9713.0	6028.1	1076.6	717.1	615.9	553.1	500.7	457.2	420.5	401.3	401.3
57.5°	9243.8	5066.8	851.5	635.1	523.5	490.3	438.0	394.3	363.0	343.7	340.2
60°	8465.6	4023.4	673.4	537.4	446.7	422.2	368.2	340.2	312.3	289.7	284.4
62.5°	7284.4	2871.8	528.7	425.7	373.4	345.4	314.1	293.2	259.9	228.6	223.3
65°	5684.4	1757.0	408.3	312.3	300.1	286.2	266.9	247.7	207.7	176.2	171.0
67.5°	3585.4	832.2	291.4	235.5	237.3	230.3	221.6	205.9	176.2	148.3	144.8
70°	1579.0	403.0	191.9	179.7	176.2	176.2	183.2	177.9	150.1	123.9	118.6
72.5°	537.4	216.4	143.1	136.1	127.4	125.7	153.5	148.3	120.4	95.9	90.7
75°	281.0	144.8	104.7	97.7	76.8	92.5	122.2	115.1	85.5	62.8	57.6
77.5°	183.2	102.9	71.5	62.8	43.7	61.1	90.7	80.3	50.6	31.4	27.9
80°	115.1	68.1	41.9	29.6	20.9	33.1	48.9	34.8	19.2	7.0	5.2
82.5°	61.1	34.8	15.7	10.5	8.7	10.5	12.2	8.7	3.5	0.0	0.0
85°	24.4	12.2	5.2	3.5	1.7	0.0	3.5	1.7	0.0	0.0	0.0
87.5°	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)