

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: P883970

Luminaire Tested: **NAV-SB4C-760-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24775 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

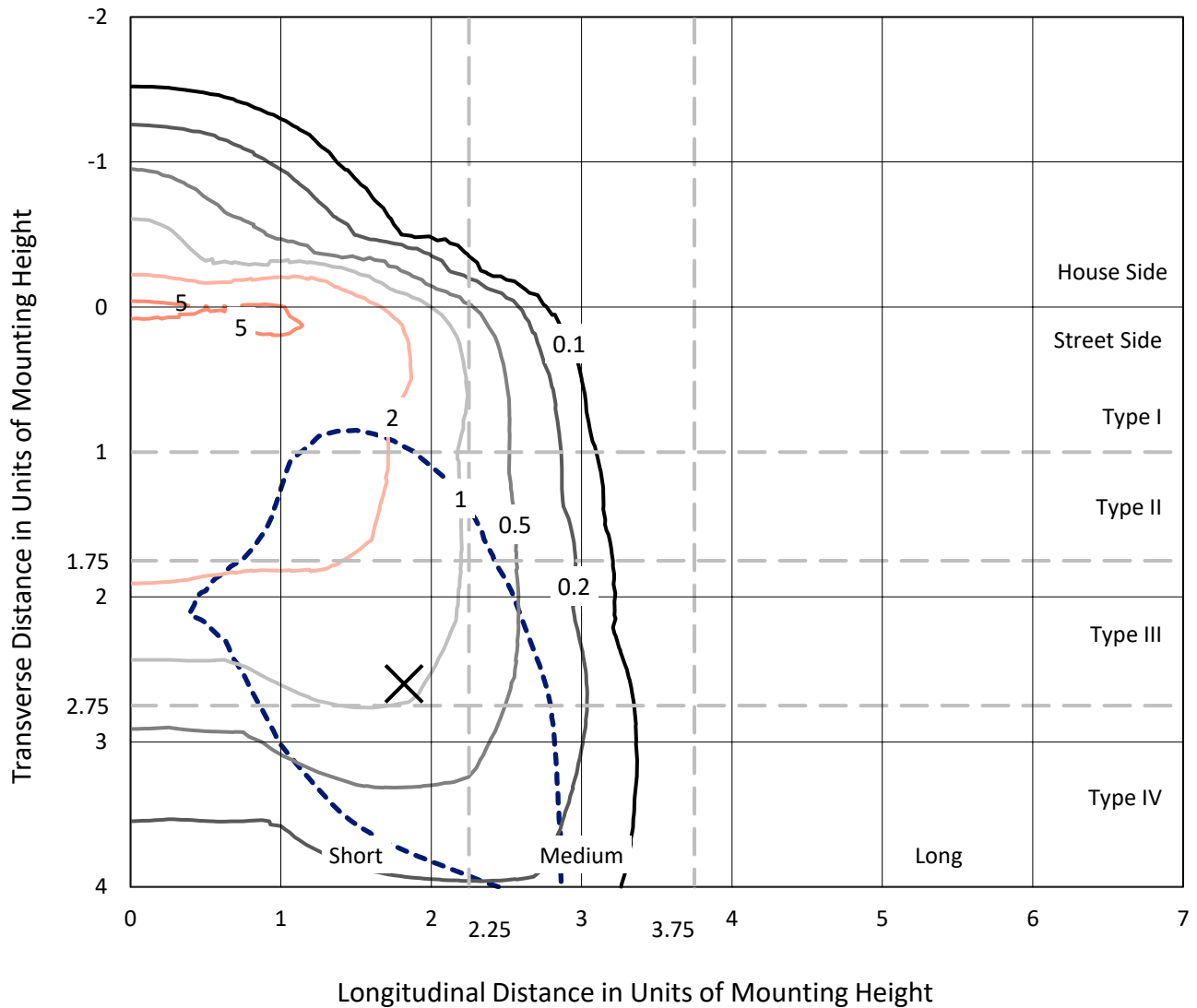
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

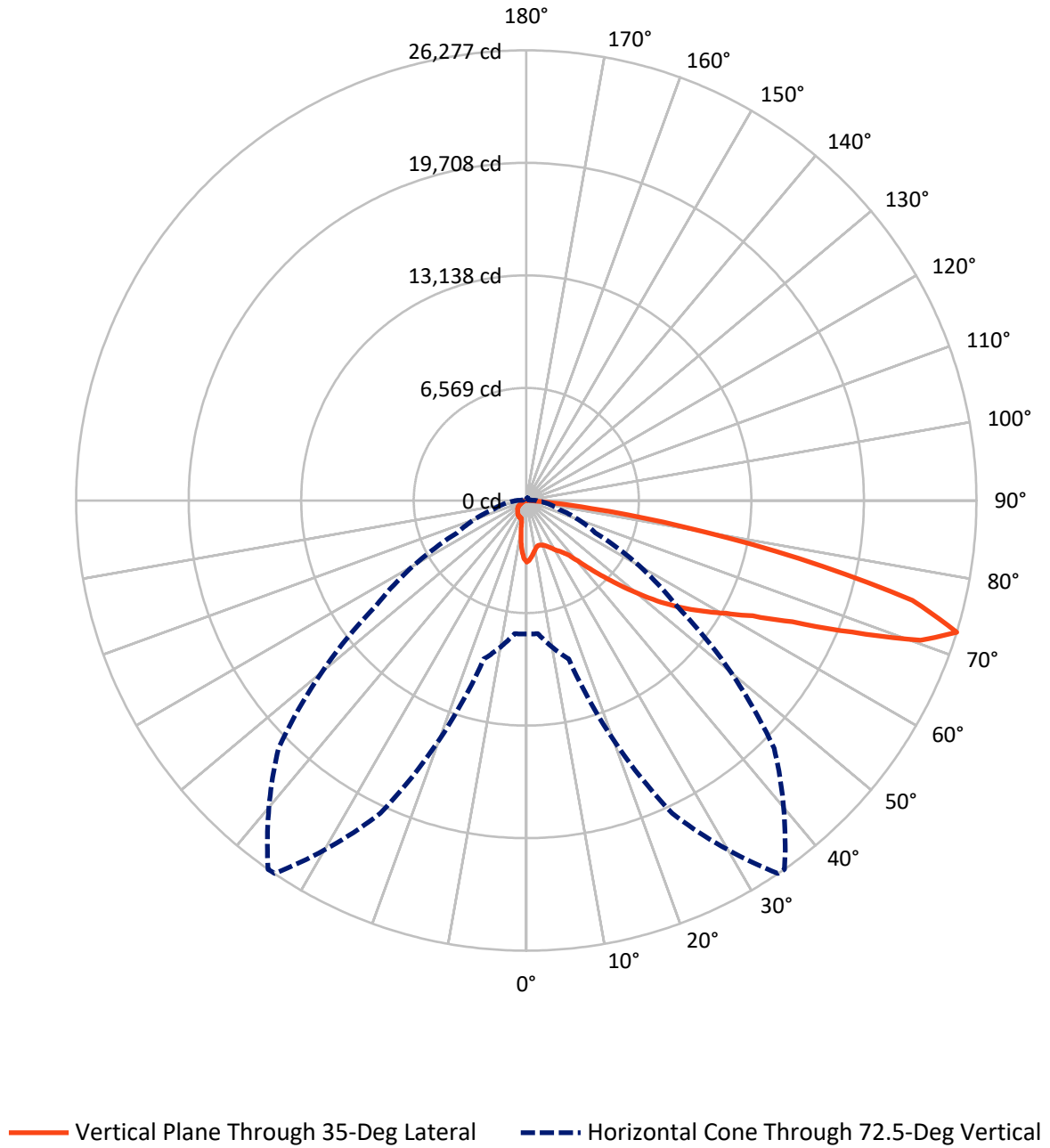
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2788.3	0.0	2788.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21986.7	0.0	21986.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	24775.0	0.0	24775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	1.2
10°-20°	690.3	2.8
20°-30°	1121.3	4.5
30°-40°	1870.9	7.6
40°-50°	3539.8	14.3
50°-60°	5624.7	22.7
60°-70°	6958.2	28.1
70°-80°	4325.2	17.5
80°-90°	349.5	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°	24775.0	100.0
0°-180°	24775.0	100.0

Coefficient of Utilization



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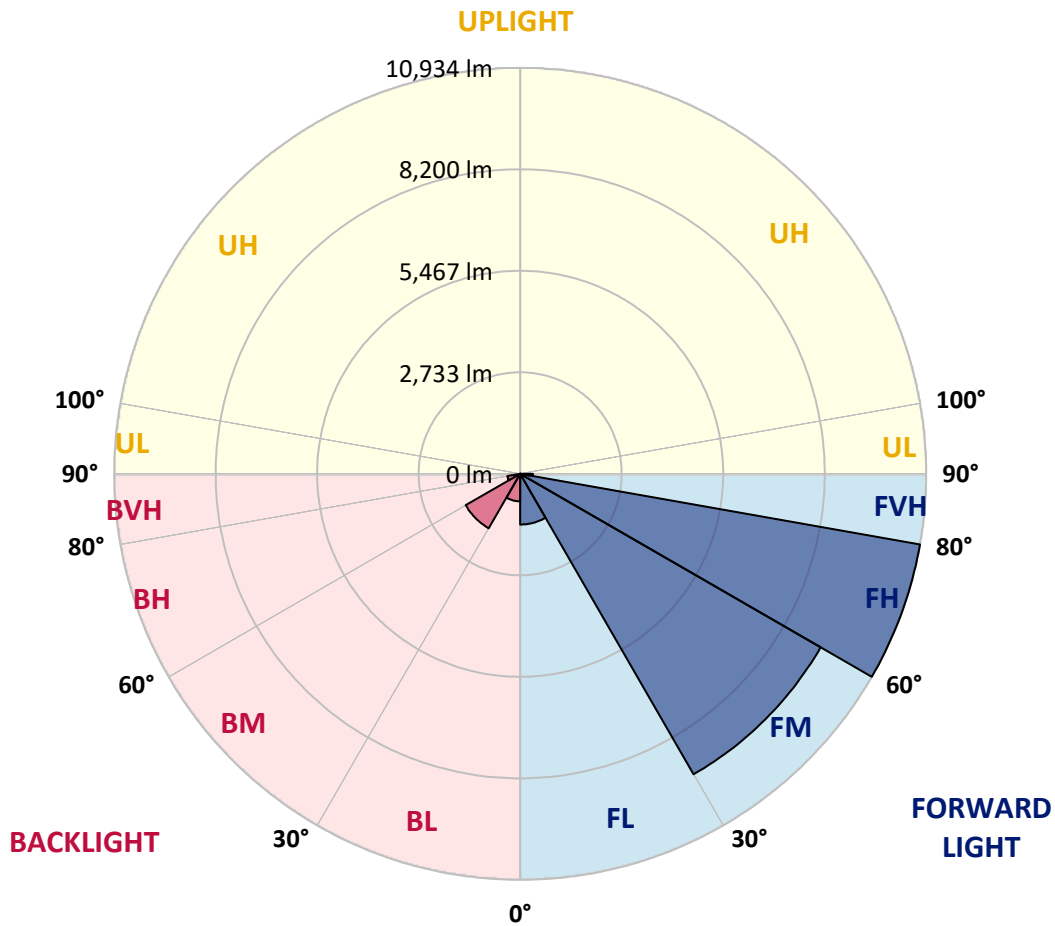
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.7	5.5			
FM (30°-60°)	9342.6	37.7			
FH (60°-80°)	10933.5	44.1			G4/12000
FVH (80°-90°)	344.8	1.4			G3/500
BL (0°-30°)	740.9	3.0	B2/1000		
BM (30°-60°)	1692.8	6.8	B2/2500		
BH (60°-80°)	349.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.8	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°	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7
2.5°	3431.0	3460.0	3465.5	3474.5	3474.5	3485.4	3503.6	3529.0	3570.8	3592.5	3607.1
5°	3162.3	3184.1	3211.3	3233.1	3274.9	3280.3	3351.1	3420.1	3516.3	3588.9	3639.7
7.5°	2891.8	2917.2	2953.5	3006.2	3060.7	3077.0	3184.1	3300.3	3452.8	3588.9	3674.2
10°	2701.2	2703.0	2735.7	2788.4	2875.5	2895.5	3026.2	3191.4	3382.0	3567.1	3706.9
12.5°	2594.1	2606.8	2621.3	2661.3	2744.8	2757.5	2897.3	3091.5	3311.2	3554.4	3745.0
15°	2594.1	2603.2	2612.3	2632.2	2699.4	2710.3	2833.7	3028.0	3274.9	3559.9	3806.8
17.5°	2621.3	2635.9	2628.6	2652.2	2723.0	2730.3	2839.2	3009.8	3273.0	3594.4	3901.2
20°	2686.7	2697.6	2683.1	2697.6	2768.4	2782.9	2895.5	3044.3	3303.9	3654.3	4019.1
22.5°	2790.2	2795.6	2761.1	2772.0	2844.6	2862.8	2993.5	3142.3	3378.3	3750.5	4177.1
25°	2920.9	2931.8	2879.1	2891.8	2960.8	2982.6	3133.3	3289.4	3496.3	3883.0	4378.6
27.5°	3071.5	3077.0	3031.6	3029.8	3118.7	3149.6	3302.1	3470.9	3654.3	4050.0	4632.7
30°	3244.0	3260.3	3216.8	3209.5	3322.1	3347.5	3498.1	3694.2	3886.6	4300.5	4994.0
32.5°	3380.1	3392.9	3367.4	3385.6	3500.0	3519.9	3736.0	4010.1	4251.5	4656.3	5485.9
35°	3576.2	3583.5	3525.4	3558.1	3688.8	3739.6	4060.9	4453.0	4710.8	5102.9	6128.6
37.5°	4286.0	4286.0	4039.1	3877.6	4002.8	4048.2	4505.7	5010.3	5277.2	5702.0	6938.2
40°	5268.1	5251.8	4890.5	4560.1	4543.8	4632.7	5139.2	5712.9	6008.8	6420.8	7849.5
42.5°	6315.5	6290.1	5798.2	5471.4	5417.0	5447.8	5870.8	6578.8	6880.1	7297.6	8829.8
45°	7245.0	7237.7	6787.5	6348.2	6250.2	6348.2	6783.9	7591.7	7807.7	8247.1	9808.2
47.5°	8023.8	8023.8	7695.2	7408.4	7357.5	7415.6	8020.1	8715.4	8695.4	9258.2	10761.3
50°	8920.5	8913.3	8601.0	8477.6	8530.2	8611.9	9443.4	9899.0	9614.0	10251.2	11612.7
52.5°	9548.7	9592.2	9485.1	9465.1	9733.8	9875.4	10888.4	11057.2	10436.3	11193.3	12249.9
55°	10046.1	10096.9	10220.3	10360.1	10877.5	11062.6	12288.0	12155.5	11124.4	12010.2	12616.6
57.5°	10750.4	10677.8	10868.4	11144.3	11981.2	12204.5	13644.0	13192.0	11678.0	12672.8	12656.5
60°	11605.4	11616.3	11649.0	11997.5	13083.1	13369.9	14980.1	14172.3	12033.8	13079.5	12213.6
62.5°	12632.9	12649.2	12716.4	13251.9	14562.6	14833.1	16403.3	14974.7	12197.2	12965.1	11069.9
65°	12562.1	12631.1	13380.8	15212.5	16811.8	17078.7	18064.4	15537.4	11950.3	11919.5	9013.1
67.5°	11443.9	11556.4	12810.8	17554.3	20202.8	20500.6	20072.1	15648.2	10884.7	9269.1	5879.9
70°	9977.1	10017.0	11525.5	19660.1	24129.4	24430.7	21869.3	14430.1	8259.8	5170.1	2634.0
72.5°	7791.4	7800.5	9570.4	20148.4	26260.6	26276.9	20458.8	10712.3	4442.1	1986.0	914.9
75°	5565.8	5511.4	6409.9	16339.8	23103.7	23288.9	15337.7	5024.8	1697.3	938.5	455.6
77.5°	2984.4	3044.3	3627.0	9690.2	15960.4	16276.3	8368.7	1448.6	864.1	639.0	301.3
80°	922.2	973.0	1486.8	4436.7	9040.4	9231.0	3102.4	644.4	602.7	455.6	197.9
82.5°	290.5	301.3	693.5	1864.3	3752.3	3839.4	898.6	364.9	412.1	301.3	116.2
85°	83.5	85.3	308.6	695.3	927.6	945.8	252.3	141.6	236.0	187.0	59.9
87.5°	9.1	29.0	116.2	116.2	81.7	79.9	27.2	30.9	67.2	23.6	10.9
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°	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7
2.5°	3598.0	3599.8	3576.2	3536.3	3492.7	3456.4	3411.0	3374.7	3349.3	3342.0	3354.7
5°	3623.4	3610.7	3543.5	3421.9	3276.7	3151.4	3011.6	2900.9	2828.3	2797.4	2808.3
7.5°	3661.5	3625.2	3478.2	3238.6	2960.8	2713.9	2463.4	2269.2	2145.7	2084.0	2093.1
10°	3694.2	3621.6	3369.3	2973.5	2548.7	2174.8	1837.1	1602.9	1472.2	1410.5	1412.3
12.5°	3725.1	3619.8	3227.7	2659.5	2084.0	1626.5	1312.5	1196.3	1160.0	1147.3	1143.7
15°	3783.2	3625.2	3049.8	2300.0	1621.1	1229.0	1114.6	1112.8	1120.1	1116.4	1114.6
17.5°	3863.0	3630.7	2848.3	1918.8	1250.8	1083.8	1078.3	1094.6	1105.5	1100.1	1098.3
20°	3966.5	3652.4	2634.0	1541.2	1074.7	1047.4	1060.2	1074.7	1083.8	1074.7	1072.9
22.5°	4111.7	3690.6	2399.9	1238.1	1018.4	1025.7	1036.6	1052.9	1062.0	1049.3	1047.4
25°	4289.6	3750.5	2169.3	1076.5	991.2	1000.2	1016.6	1034.7	1045.6	1032.9	1031.1
27.5°	4520.2	3846.7	1956.9	1040.2	963.9	969.4	993.0	1020.2	1034.7	1018.4	1018.4
30°	4854.2	4004.6	1773.6	1056.5	947.6	934.9	967.6	1005.7	1022.0	1007.5	1005.7
32.5°	5297.1	4227.9	1661.0	1081.9	940.3	895.0	925.8	974.8	1002.1	993.0	993.0
35°	5878.0	4567.4	1617.5	1111.0	934.9	853.2	875.0	927.6	974.8	983.9	983.9
37.5°	6582.4	5039.4	1630.2	1123.7	918.6	818.7	829.6	875.0	936.7	965.8	973.0
40°	7383.0	5589.4	1702.8	1111.0	900.4	789.7	791.5	826.0	880.4	924.0	938.5
42.5°	8208.9	6232.0	1837.1	1063.8	884.1	764.3	758.8	782.4	818.7	849.6	862.3
45°	8995.0	6892.8	1969.6	998.4	864.1	738.8	726.1	735.2	742.5	755.2	762.4
47.5°	9681.2	7357.5	1931.5	938.5	836.9	709.8	688.0	684.4	662.6	660.8	659.0
50°	10155.0	7459.2	1715.5	878.6	796.9	677.1	642.6	620.8	582.7	564.6	566.4
52.5°	10305.6	7058.0	1401.4	818.7	731.6	633.6	584.5	550.0	502.8	486.5	484.7
55°	10106.0	6272.0	1120.1	746.1	640.8	575.5	521.0	475.6	437.5	417.5	417.5
57.5°	9617.6	5271.7	885.9	660.8	544.6	510.1	455.6	410.3	377.6	357.6	354.0
60°	8808.0	4186.2	700.7	559.1	464.7	439.3	383.0	354.0	324.9	301.3	295.9
62.5°	7579.0	2988.0	550.0	442.9	388.5	359.4	326.8	305.0	270.5	237.8	232.4
65°	5914.4	1828.0	424.8	324.9	312.2	297.7	277.7	257.8	216.0	183.3	177.9
67.5°	3730.5	865.9	303.2	245.1	246.9	239.6	230.5	214.2	183.3	154.3	150.7
70°	1642.9	419.3	199.7	187.0	183.3	183.3	190.6	185.2	156.1	128.9	123.4
72.5°	559.1	225.1	148.9	141.6	132.5	130.7	159.7	154.3	125.3	99.8	94.4
75°	292.3	150.7	108.9	101.7	79.9	96.2	127.1	119.8	89.0	65.4	59.9
77.5°	190.6	107.1	74.4	65.4	45.4	63.5	94.4	83.5	52.6	32.7	29.0
80°	119.8	70.8	43.6	30.9	21.8	34.5	50.8	36.3	20.0	7.3	5.4
82.5°	63.5	36.3	16.3	10.9	9.1	10.9	12.7	9.1	3.6	0.0	0.0
85°	25.4	12.7	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0	0.0
87.5°	9.1	1.8	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)