

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: P885130

Luminaire Tested: **NAV-SB6B-735-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885130
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-SB6B-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA 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: 25878 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

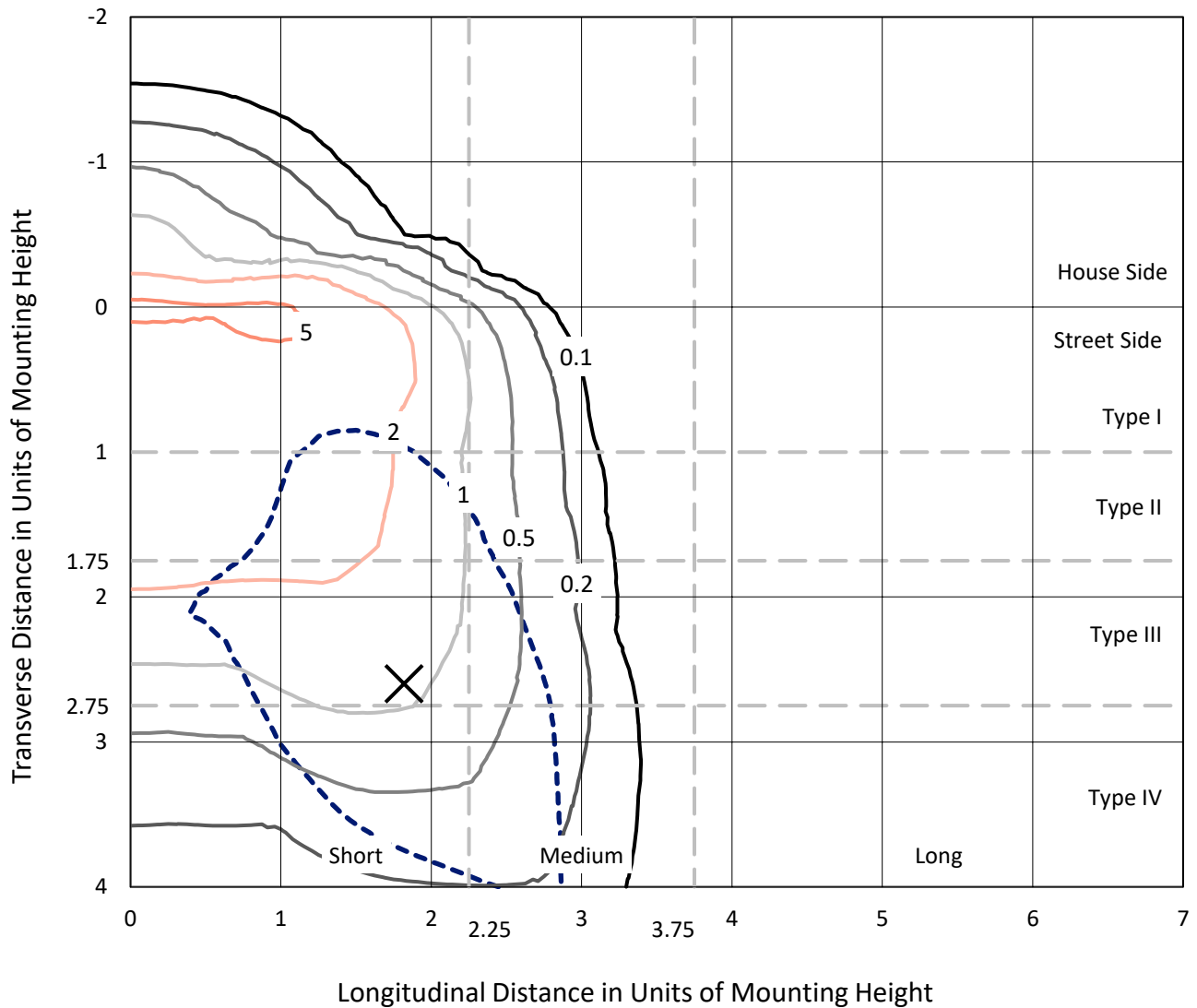
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

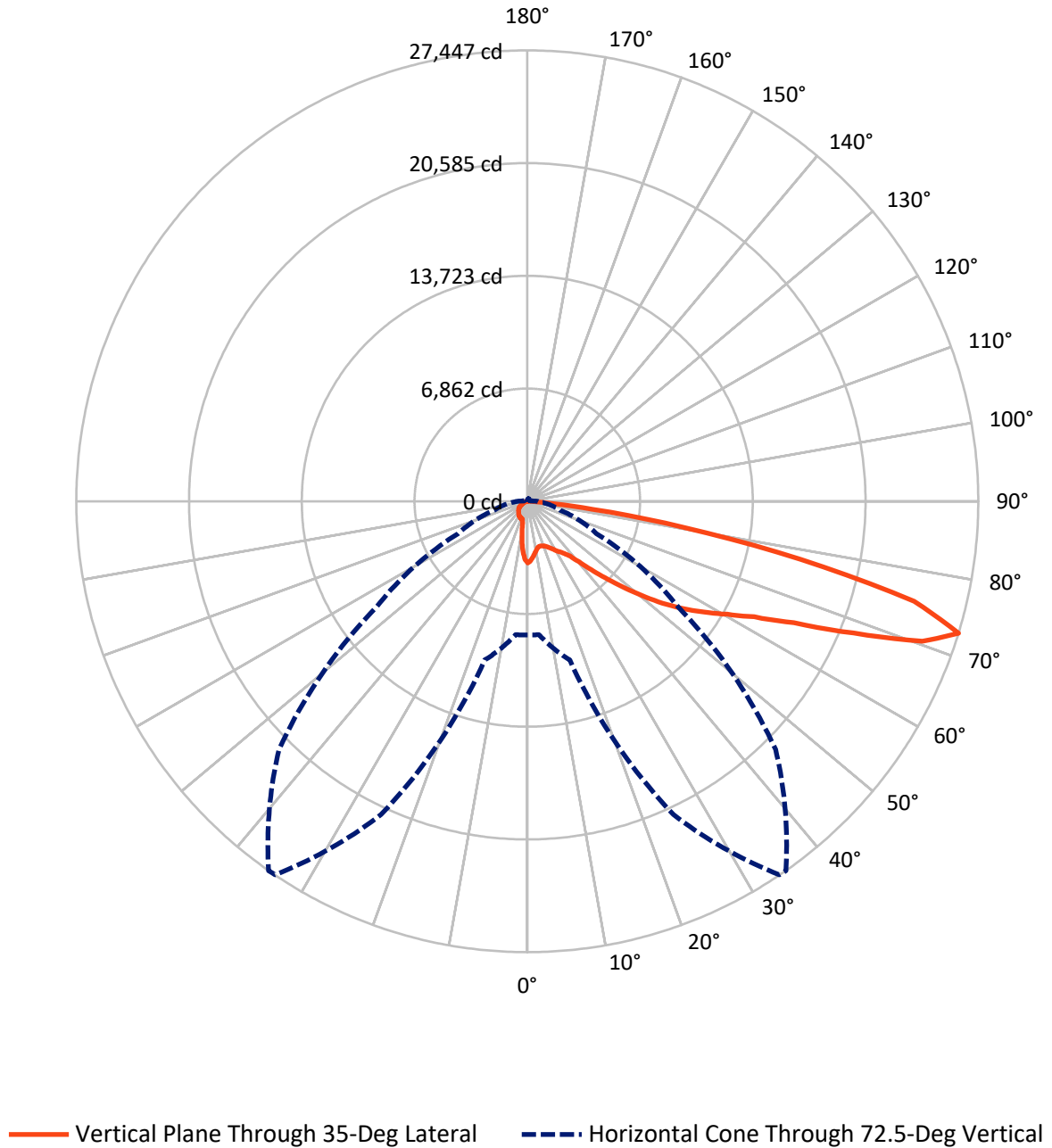
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2912.4	0.0	2912.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22965.5	0.0	22965.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	25878.0	0.0	25878.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.2
10°-20°	721.0	2.8
20°-30°	1171.2	4.5
30°-40°	1954.2	7.6
40°-50°	3697.4	14.3
50°-60°	5875.1	22.7
60°-70°	7267.9	28.1
70°-80°	4517.8	17.5
80°-90°	365.1	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°	25878.0	100.0
0°-180°	25878.0	100.0



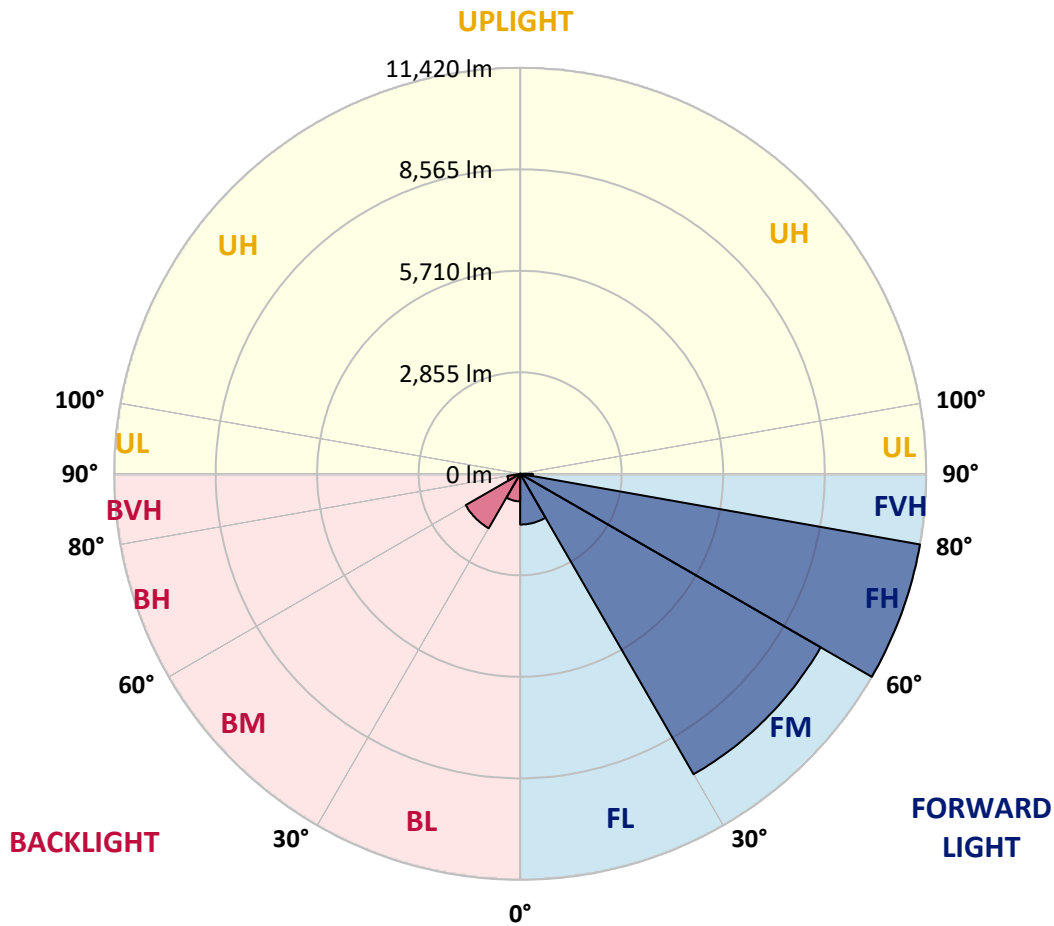
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.5	5.5			
FM (30°-60°)	9758.6	37.7			
FH (60°-80°)	11420.3	44.1			G4/12000
FVH (80°-90°)	360.1	1.4			G3/500
BL (0°-30°)	773.9	3.0	B2/1000		
BM (30°-60°)	1768.1	6.8	B2/2500		
BH (60°-80°)	365.5	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	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°	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6
2.5°	3583.7	3614.1	3619.8	3629.2	3629.2	3640.6	3659.6	3686.1	3729.7	3752.5	3767.7
5°	3303.1	3325.9	3354.3	3377.0	3420.7	3426.3	3500.3	3572.4	3672.8	3748.7	3801.8
7.5°	3020.6	3047.1	3085.0	3140.0	3196.9	3214.0	3325.9	3447.2	3606.5	3748.7	3837.8
10°	2821.5	2823.4	2857.5	2912.5	3003.5	3024.4	3160.9	3333.4	3532.5	3725.9	3871.9
12.5°	2709.6	2722.9	2738.0	2779.8	2867.0	2880.3	3026.3	3229.1	3458.6	3712.7	3911.8
15°	2709.6	2719.1	2728.6	2749.4	2819.6	2831.0	2959.9	3162.8	3420.7	3718.4	3976.2
17.5°	2738.0	2753.2	2745.6	2770.3	2844.2	2851.8	2965.6	3143.8	3418.8	3754.4	4074.8
20°	2806.3	2817.7	2802.5	2817.7	2891.6	2906.8	3024.4	3179.8	3451.0	3817.0	4198.1
22.5°	2914.4	2920.1	2884.0	2895.4	2971.3	2990.2	3126.8	3282.2	3528.7	3917.5	4363.0
25°	3050.9	3062.3	3007.3	3020.6	3092.6	3115.4	3272.8	3435.8	3652.0	4055.9	4573.5
27.5°	3208.3	3214.0	3166.6	3164.7	3257.6	3289.8	3449.1	3625.4	3817.0	4230.3	4839.0
30°	3388.4	3405.5	3360.0	3352.4	3470.0	3496.5	3653.9	3858.7	4059.7	4492.0	5216.3
32.5°	3530.6	3543.9	3517.4	3536.3	3655.8	3676.6	3902.3	4188.6	4440.8	4863.6	5730.2
35°	3735.4	3743.0	3682.3	3716.5	3853.0	3906.1	4241.7	4651.3	4920.5	5330.1	6401.4
37.5°	4476.8	4476.8	4218.9	4050.2	4181.0	4228.4	4706.3	5233.4	5512.1	5955.8	7247.1
40°	5502.6	5485.6	5108.2	4763.1	4746.1	4839.0	5368.0	5967.2	6276.3	6706.7	8199.0
42.5°	6596.7	6570.2	6056.3	5715.0	5658.1	5690.4	6132.2	6871.7	7186.4	7622.5	9222.9
45°	7567.5	7560.0	7089.7	6630.8	6528.5	6630.8	7085.9	7929.7	8155.4	8614.2	10244.9
47.5°	8381.0	8381.0	8037.8	7738.2	7685.1	7745.8	8377.2	9103.4	9082.6	9670.4	11240.4
50°	9317.7	9310.1	8984.0	8855.0	8910.0	8995.3	9863.8	10339.7	10042.0	10707.6	12129.7
52.5°	9973.8	10019.3	9907.4	9886.5	10167.2	10315.1	11373.1	11549.5	10901.0	11691.7	12795.2
55°	10493.3	10546.4	10675.3	10821.3	11361.7	11555.2	12835.1	12696.6	11619.6	12544.9	13178.3
57.5°	11229.0	11153.2	11352.3	11640.5	12514.6	12747.8	14251.5	13779.3	12197.9	13237.0	13220.0
60°	12122.1	12133.5	12167.6	12531.7	13665.6	13965.2	15647.1	14803.3	12569.6	13661.8	12757.3
62.5°	13195.3	13212.4	13282.5	13841.9	15210.9	15493.5	17133.6	15641.4	12740.2	13542.3	11562.7
65°	13121.4	13193.4	13976.5	15889.8	17560.3	17839.0	18868.6	16229.2	12482.4	12450.1	9414.4
67.5°	11953.3	12070.9	13381.1	18335.8	21102.3	21413.3	20965.8	16344.8	11369.3	9681.8	6141.6
70°	10421.3	10463.0	12038.7	20535.3	25203.7	25518.4	22843.0	15072.5	8627.5	5400.2	2751.3
72.5°	8138.3	8147.8	9996.5	21045.4	27429.7	27446.8	21369.6	11189.2	4639.9	2074.4	955.7
75°	5813.6	5756.7	6695.3	17067.3	24132.3	24325.7	16020.6	5248.6	1772.9	980.3	475.9
77.5°	3117.3	3179.8	3788.5	10121.7	16671.0	17000.9	8741.3	1513.1	902.6	667.4	314.8
80°	963.2	1016.3	1552.9	4634.2	9442.8	9641.9	3240.5	673.1	629.5	475.9	206.7
82.5°	303.4	314.8	724.3	1947.3	3919.3	4010.4	938.6	381.1	430.4	314.8	121.4
85°	87.2	89.1	322.3	726.2	968.9	987.9	263.6	147.9	246.5	195.3	62.6
87.5°	9.5	30.3	121.4	121.4	85.3	83.4	28.4	32.2	70.2	24.6	11.4
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°	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6	3750.6
2.5°	3758.2	3760.1	3735.4	3693.7	3648.2	3610.3	3562.9	3524.9	3498.4	3490.8	3504.1
5°	3784.7	3771.4	3701.3	3574.2	3422.6	3291.7	3145.7	3030.1	2954.2	2922.0	2933.3
7.5°	3824.5	3786.6	3633.0	3382.7	3092.6	2834.7	2573.1	2370.2	2241.3	2176.8	2186.3
10°	3858.7	3782.8	3519.3	3105.9	2662.2	2271.6	1918.9	1674.3	1537.8	1473.3	1475.2
12.5°	3890.9	3780.9	3371.4	2777.9	2176.8	1699.0	1370.9	1249.6	1211.6	1198.4	1194.6
15°	3951.6	3786.6	3185.5	2402.4	1693.3	1283.7	1164.2	1162.3	1169.9	1166.1	1164.2
17.5°	4035.0	3792.3	2975.1	2004.2	1306.4	1132.0	1126.3	1143.4	1154.8	1149.1	1147.2
20°	4143.1	3815.1	2751.3	1609.8	1122.5	1094.1	1107.4	1122.5	1132.0	1122.5	1120.6
22.5°	4294.8	3854.9	2506.7	1293.2	1063.7	1071.3	1082.7	1099.8	1109.2	1096.0	1094.1
25°	4480.6	3917.5	2265.9	1124.4	1035.3	1044.8	1061.8	1080.8	1092.2	1078.9	1077.0
27.5°	4721.4	4017.9	2044.1	1086.5	1006.9	1012.5	1037.2	1065.6	1080.8	1063.7	1063.7
30°	5070.3	4182.9	1852.5	1103.6	989.8	976.5	1010.6	1050.5	1067.5	1052.4	1050.5
32.5°	5533.0	4416.1	1735.0	1130.1	982.2	934.8	967.0	1018.2	1046.7	1037.2	1037.2
35°	6139.7	4770.7	1689.5	1160.4	976.5	891.2	913.9	968.9	1018.2	1027.7	1027.7
37.5°	6875.4	5263.7	1702.7	1173.7	959.5	855.2	866.5	913.9	978.4	1008.8	1016.3
40°	7711.7	5838.3	1778.6	1160.4	940.5	824.8	826.7	862.7	919.6	965.1	980.3
42.5°	8574.4	6509.5	1918.9	1111.1	923.4	798.3	792.6	817.2	855.2	887.4	900.7
45°	9395.4	7199.7	2057.3	1042.9	902.6	771.7	758.5	767.9	775.5	788.8	796.4
47.5°	10112.2	7685.1	2017.5	980.3	874.1	741.4	718.6	714.8	692.1	690.2	688.3
50°	10607.1	7791.3	1791.9	917.7	832.4	707.3	671.2	648.5	608.7	589.7	591.6
52.5°	10764.5	7372.2	1463.8	855.2	764.1	661.8	610.6	574.5	525.2	508.2	506.3
55°	10555.9	6551.2	1169.9	779.3	669.3	601.1	544.2	496.8	457.0	436.1	436.1
57.5°	10045.8	5506.4	925.3	690.2	568.8	532.8	475.9	428.5	394.4	373.5	369.7
60°	9200.1	4372.5	731.9	584.0	485.4	458.9	400.1	369.7	339.4	314.8	309.1
62.5°	7916.4	3121.1	574.5	462.7	405.8	375.4	341.3	318.6	282.5	248.4	242.7
65°	6177.7	1909.4	443.7	339.4	326.1	311.0	290.1	269.3	225.6	191.5	185.8
67.5°	3896.6	904.5	316.7	256.0	257.9	250.3	240.8	223.7	191.5	161.2	157.4
70°	1716.0	438.0	208.6	195.3	191.5	191.5	199.1	193.4	163.1	134.6	128.9
72.5°	584.0	235.1	155.5	147.9	138.4	136.5	166.9	161.2	130.8	104.3	98.6
75°	305.3	157.4	113.8	106.2	83.4	100.5	132.7	125.1	92.9	68.3	62.6
77.5°	199.1	111.9	77.7	68.3	47.4	66.4	98.6	87.2	55.0	34.1	30.3
80°	125.1	73.9	45.5	32.2	22.8	36.0	53.1	37.9	20.9	7.6	5.7
82.5°	66.4	37.9	17.1	11.4	9.5	11.4	13.3	9.5	3.8	0.0	0.0
85°	26.5	13.3	5.7	3.8	1.9	0.0	3.8	1.9	0.0	0.0	0.0
87.5°	9.5	1.9	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)