

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: P883969

Luminaire Tested: **NAV-SB4C-760-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-760-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32744 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

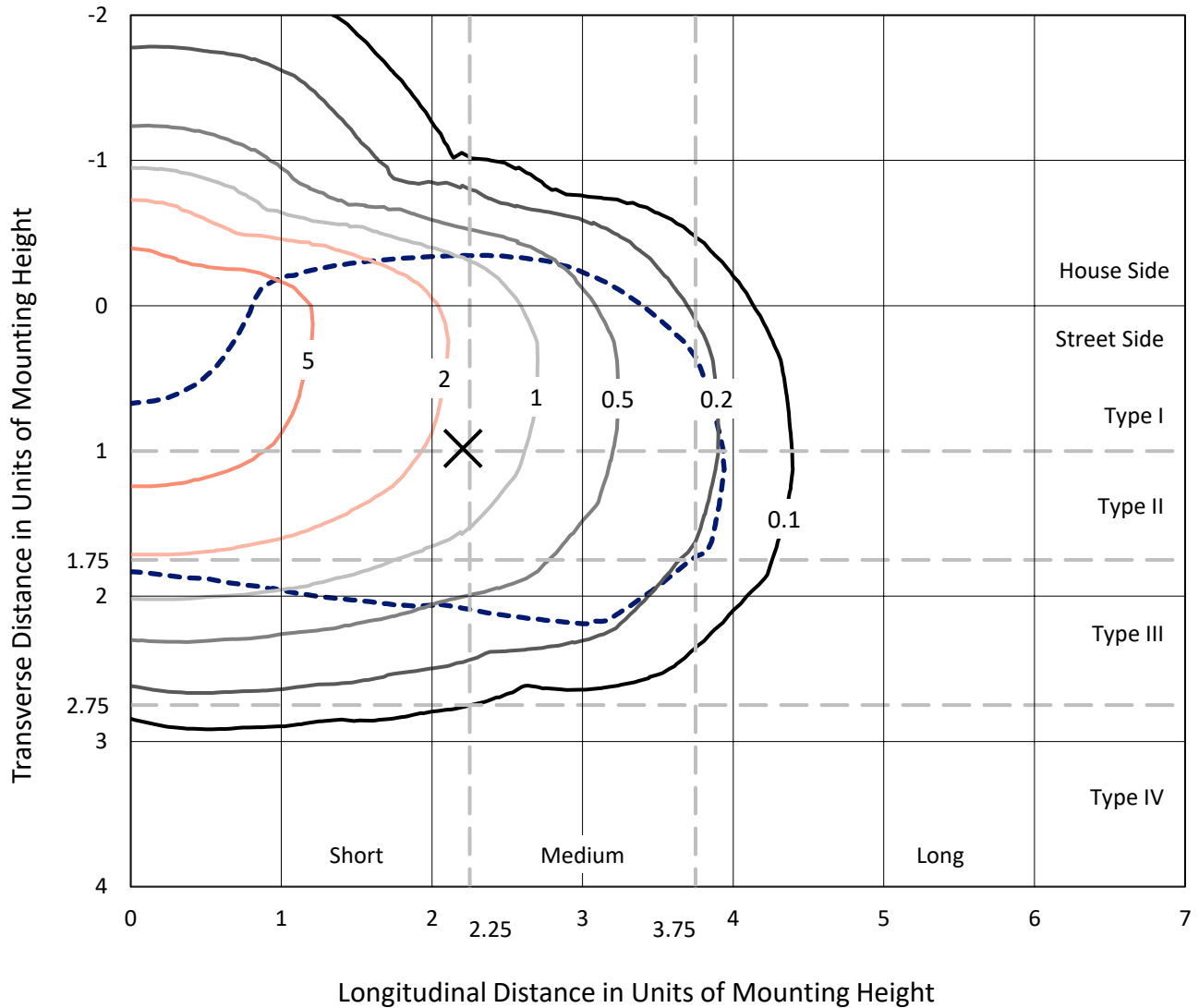
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

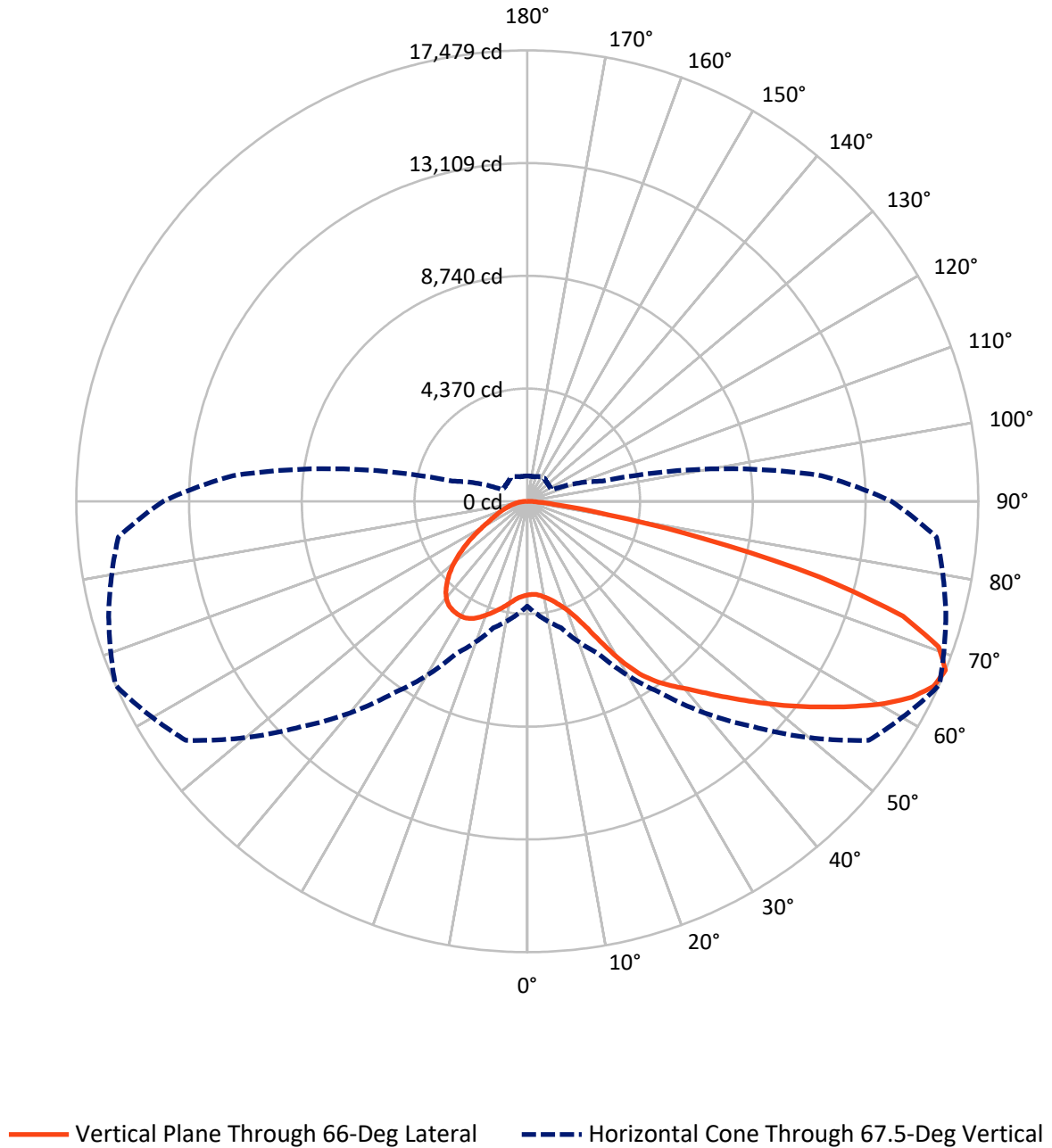
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8141.7	0.0	8141.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24602.3	0.0	24602.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	32744.0	0.0	32744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	1.1
10°-20°	1189.6	3.6
20°-30°	2293.0	7.0
30°-40°	4020.4	12.3
40°-50°	5977.0	18.3
50°-60°	7576.4	23.1
60°-70°	7413.4	22.6
70°-80°	3536.2	10.8
80°-90°	377.9	1.2
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°	32744.0	100.0
0°-180°	32744.0	100.0

Coefficient of Utilization



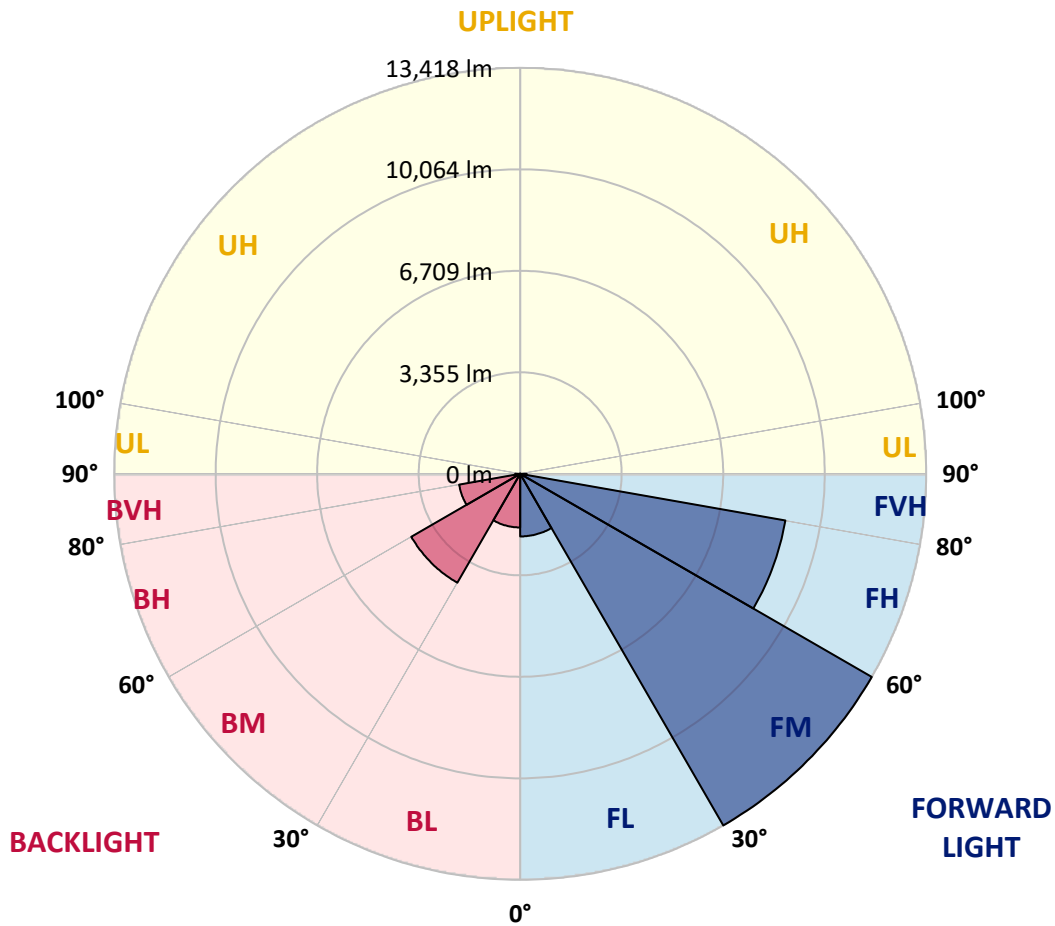
REPORT NUMBER: P883969
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.1	6.3			
FM (30°-60°)	13418.2	41.0			
FH (60°-80°)	8900.7	27.2			G4/12000
FVH (80°-90°)	214.3	0.7			G2/225
BL (0°-30°)	1773.6	5.4	B3/2500		
BM (30°-60°)	4155.6	12.7	B3/5000		
BH (60°-80°)	2048.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	163.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P883969

CATALOG NUMBER: NAV-SB4C-760-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7
2.5°	3593.9	3614.5	3609.4	3600.8	3599.1	3602.5	3607.7	3612.8	3611.1	3619.7	3633.5
5°	3583.6	3604.2	3602.5	3602.5	3609.4	3623.1	3631.7	3640.3	3631.7	3642.1	3661.0
7.5°	3590.5	3605.9	3612.8	3619.7	3636.9	3662.7	3683.4	3702.3	3692.0	3704.0	3728.1
10°	3678.2	3690.2	3697.1	3697.1	3709.2	3738.4	3759.1	3793.5	3784.9	3803.8	3834.7
12.5°	3838.2	3850.2	3850.2	3843.4	3852.0	3870.9	3877.8	3915.6	3900.1	3931.1	3962.1
15°	4034.3	4058.4	4039.5	4027.4	4030.9	4049.8	4048.1	4077.3	4061.8	4087.6	4115.2
17.5°	4251.1	4282.0	4251.1	4249.4	4242.5	4263.1	4264.8	4290.7	4263.1	4282.0	4301.0
20°	4507.4	4550.4	4524.6	4533.2	4517.7	4526.3	4534.9	4572.8	4529.8	4543.5	4538.4
22.5°	4868.7	4920.3	4892.8	4925.5	4915.2	4908.3	4906.6	4973.6	4906.6	4911.7	4861.8
25°	5395.1	5457.1	5408.9	5453.6	5453.6	5476.0	5501.8	5587.8	5476.0	5443.3	5314.3
27.5°	6172.8	6234.7	6140.1	6167.6	6159.0	6214.0	6186.5	6399.8	6279.4	6226.1	5966.3
30°	7108.6	7218.8	7039.8	7033.0	7024.4	7112.1	7151.7	7292.7	7170.6	7117.3	6804.1
32.5°	8120.2	8235.5	8022.2	7960.2	7927.6	7980.9	7948.2	8061.7	7977.4	7894.9	7507.8
35°	9190.3	9303.9	9100.9	8980.4	8849.7	8737.9	8620.9	8650.1	8571.0	8445.4	8044.5
37.5°	10201.9	10410.1	10195.0	10066.0	9825.1	9606.7	9279.8	9143.9	9069.9	8954.6	8550.3
40°	11232.4	11351.1	11187.7	11077.6	10816.1	10473.7	9950.7	9663.4	9563.6	9451.8	9109.5
42.5°	11991.1	12104.7	12016.9	11941.2	11736.5	11339.1	10663.0	10303.4	10158.9	10033.3	9742.6
45°	12593.3	12677.6	12622.5	12650.0	12562.3	12176.9	11401.0	10989.8	10840.2	10687.1	10458.2
47.5°	12835.8	12925.3	13013.0	13176.5	13326.1	13042.3	12194.1	11733.1	11574.8	11418.2	11192.9
50°	12808.3	12899.5	13154.1	13501.6	13966.1	13871.5	13030.2	12524.4	12378.2	12199.3	11991.1
52.5°	12588.1	12691.3	13018.2	13596.2	14336.0	14492.6	13881.8	13341.6	13204.0	12990.7	12782.5
55°	12010.0	12072.0	12562.3	13381.2	14423.7	14926.1	14716.2	14212.1	14074.5	13776.9	13549.8
57.5°	10938.2	11027.7	11741.7	12801.4	14203.5	15220.3	15449.1	15127.4	14994.9	14566.5	14329.1
60°	9539.6	9682.4	10499.5	11827.7	13642.7	15218.6	16114.9	16027.1	15917.0	15344.2	15096.4
62.5°	7956.8	8122.0	8908.2	10451.4	12662.1	14786.7	16531.2	16780.7	16723.9	16061.6	15745.0
65°	6110.8	6224.4	7007.1	8670.8	11136.1	13859.5	16579.4	17295.1	17305.4	16606.9	16083.9
67.5°	4068.7	4395.6	5075.1	6506.5	9092.3	12343.8	16156.2	17379.4	17479.2	16794.4	15913.6
70°	1985.3	2415.4	3081.2	4228.7	6506.5	10019.5	15050.0	16687.8	16909.7	16247.4	14898.6
72.5°	824.1	963.4	1326.4	2086.8	3735.0	6761.1	12827.2	14812.6	15223.7	14396.2	12526.2
75°	555.7	602.1	758.7	1070.1	1701.5	3334.1	9250.5	11044.9	11707.3	10872.9	8887.5
77.5°	428.4	457.6	552.2	748.4	1011.6	1261.0	4951.3	6656.2	6998.5	6479.0	4624.4
80°	337.2	359.6	412.9	545.4	717.4	674.4	1687.7	3015.8	3213.7	2695.9	1486.4
82.5°	292.5	301.1	295.9	369.9	476.5	394.0	554.0	1113.1	1228.4	891.2	485.1
85°	211.6	235.7	246.0	228.8	252.9	199.6	227.1	394.0	433.5	387.1	273.5
87.5°	86.0	127.3	156.6	148.0	92.9	56.8	70.5	115.3	132.5	144.5	89.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883969
 CATALOG NUMBER: NAV-SB4C-760-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7
2.5°	3635.2	3647.2	3655.8	3666.2	3673.0	3683.4	3704.0	3716.0	3717.8	3726.4	3724.6
5°	3667.9	3685.1	3704.0	3731.5	3762.5	3788.3	3827.9	3855.4	3865.7	3874.3	3872.6
7.5°	3738.4	3762.5	3796.9	3845.1	3889.8	3924.2	3972.4	4005.1	4037.8	4049.8	4051.5
10°	3843.4	3877.8	3927.6	3993.0	4041.2	4085.9	4135.8	4163.3	4196.0	4209.8	4216.7
12.5°	3974.1	4010.2	4075.6	4166.8	4211.5	4242.5	4259.7	4252.8	4259.7	4271.7	4275.2
15°	4123.8	4163.3	4237.3	4335.4	4366.3	4338.8	4301.0	4266.6	4261.4	4264.8	4276.9
17.5°	4301.0	4330.2	4416.2	4498.8	4476.5	4362.9	4280.3	4225.3	4197.8	4189.1	4201.2
20°	4548.7	4548.7	4619.2	4670.9	4521.2	4328.5	4199.5	4110.0	4053.2	4029.2	4024.0
22.5°	4849.8	4822.3	4867.0	4830.9	4512.6	4232.2	4053.2	3898.4	3812.4	3778.0	3772.8
25°	5231.7	5199.0	5187.0	4963.3	4450.6	4079.0	3788.3	3600.8	3525.1	3506.2	3509.6
27.5°	5808.0	5725.5	5568.9	5035.6	4337.1	3838.2	3478.6	3304.9	3261.9	3263.6	3268.7
30°	6575.3	6410.2	6026.5	5047.6	4151.3	3497.6	3162.1	3038.2	3017.6	3026.2	3055.4
32.5°	7285.8	7129.3	6494.5	4992.6	3865.7	3163.8	2878.2	2795.6	2764.7	2775.0	2788.8
35°	7843.3	7800.2	6928.0	4915.2	3514.8	2850.7	2623.6	2553.1	2492.8	2479.1	2489.4
37.5°	8369.7	8352.5	7253.2	4806.8	3167.2	2628.8	2418.9	2326.0	2238.2	2190.1	2191.8
40°	8947.7	8930.5	7466.5	4639.9	2859.3	2436.1	2234.8	2112.6	2004.3	1916.5	1925.1
42.5°	9598.1	9496.6	7568.0	4400.8	2597.8	2272.6	2085.1	1920.0	1777.2	1696.3	1701.5
45°	10308.6	10079.8	7566.3	4096.2	2377.6	2123.0	1925.1	1691.1	1558.7	1483.0	1479.5
47.5°	11062.1	10637.2	7473.4	3759.1	2164.3	1957.8	1677.4	1498.5	1410.7	1364.3	1353.9
50°	11839.7	11158.4	7315.1	3372.0	1945.8	1770.3	1522.5	1400.4	1333.3	1290.3	1274.8
52.5°	12570.9	11631.6	7124.1	2933.3	1723.8	1587.9	1453.7	1359.1	1288.6	1240.4	1219.8
55°	13250.4	12039.3	6854.0	2484.2	1543.2	1465.8	1421.0	1341.9	1261.0	1204.3	1181.9
57.5°	13854.3	12304.2	6387.8	2062.7	1414.2	1381.5	1386.6	1312.7	1219.8	1171.6	1140.6
60°	14356.7	12498.6	5697.9	1672.2	1309.2	1298.9	1333.3	1257.6	1149.2	1094.2	1070.1
62.5°	14657.7	12495.2	4851.5	1369.4	1219.8	1223.2	1262.8	1188.8	1078.7	1027.1	1011.6
65°	14631.9	12189.0	3922.5	1171.6	1133.7	1137.2	1188.8	1113.1	1020.2	989.2	987.5
67.5°	14114.1	11442.3	3009.0	1042.6	1039.1	1054.6	1114.8	1061.5	984.1	980.6	985.8
70°	12712.0	9892.2	2167.7	939.3	941.1	963.4	1042.6	1028.8	965.1	972.0	970.3
72.5°	10193.3	7542.2	1455.4	830.9	832.7	868.8	973.7	1003.0	946.2	1037.4	1051.2
75°	6788.7	4703.5	935.9	715.7	717.4	763.9	913.5	953.1	894.6	1034.0	1042.6
77.5°	3261.9	2114.4	677.8	602.1	602.1	645.1	789.7	853.3	762.1	803.4	736.3
80°	1126.9	794.8	533.3	485.1	474.8	504.1	665.8	739.8	657.2	605.6	567.7
82.5°	443.9	412.9	428.4	376.8	342.4	361.3	517.8	610.7	483.4	437.0	435.3
85°	254.6	268.4	302.8	249.5	197.8	221.9	380.2	438.7	364.7	321.7	328.6
87.5°	68.8	94.6	139.4	129.0	89.5	94.6	180.6	242.6	209.9	161.7	166.9
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)