

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: P884589

Luminaire Tested: **NAV-SB5C-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884589
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-SB5C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30304 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

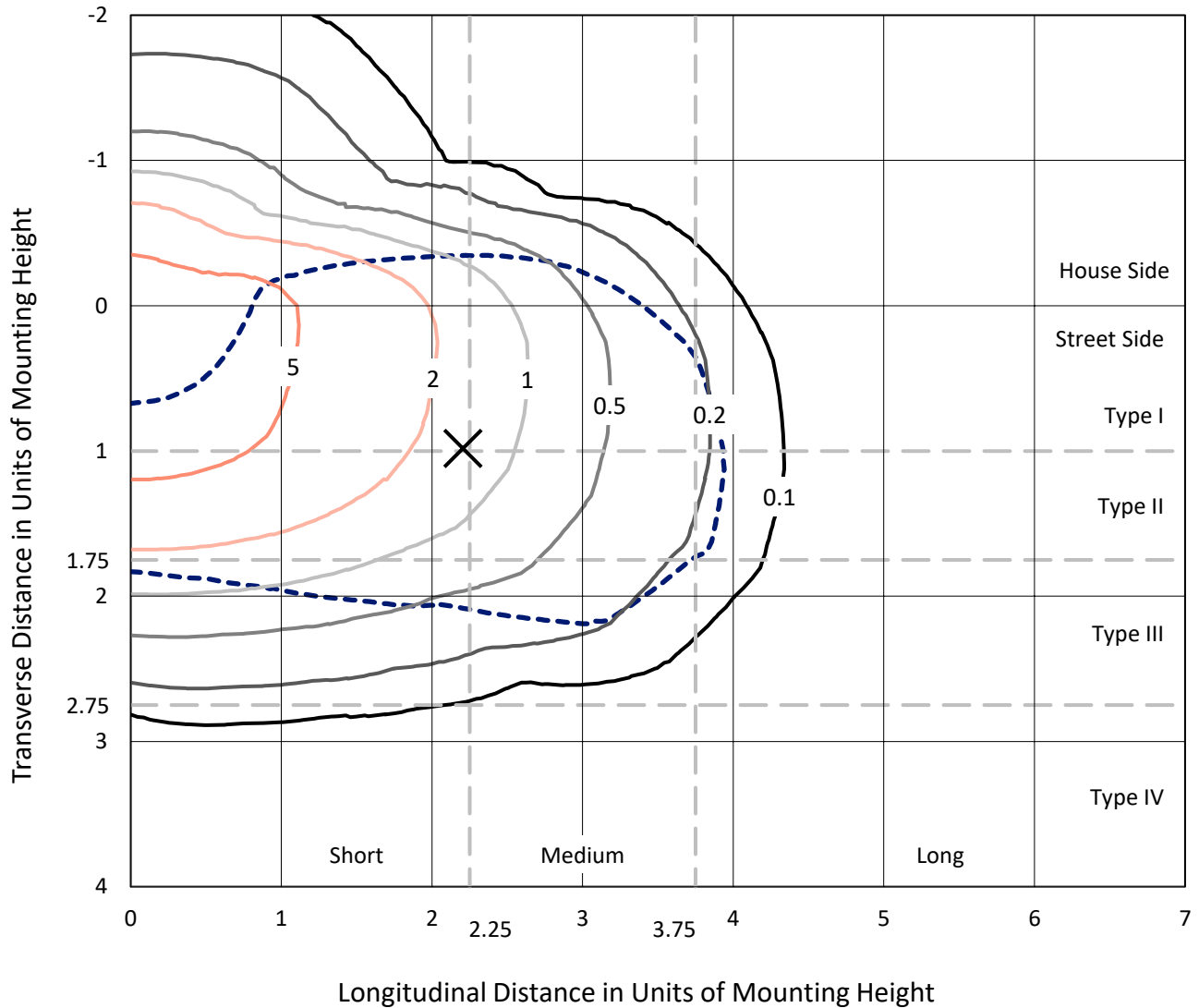
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

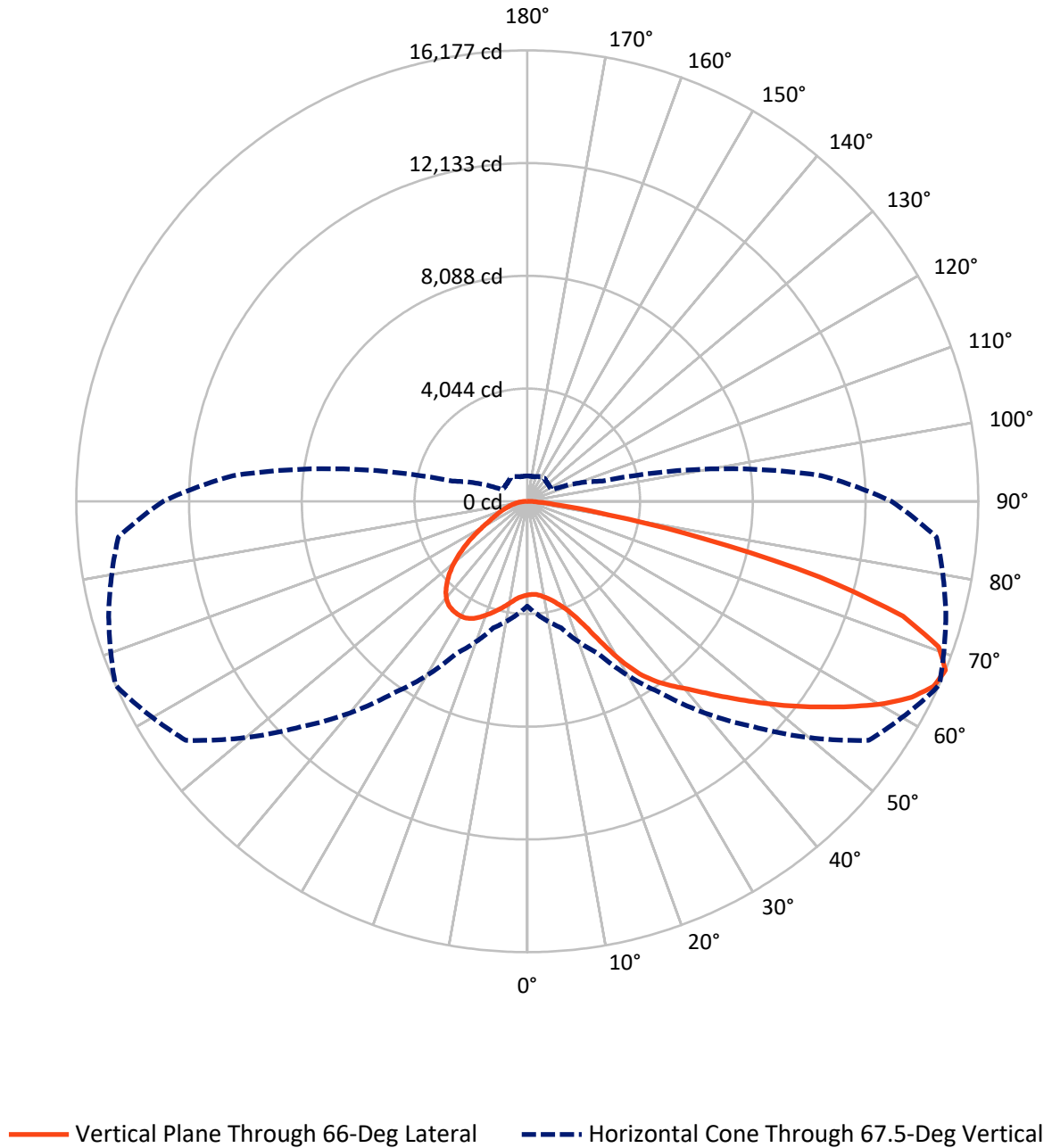
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7535.0	0.0	7535.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22769.0	0.0	22769.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	30304.0	0.0	30304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	1.1
10°-20°	1101.0	3.6
20°-30°	2122.1	7.0
30°-40°	3720.8	12.3
40°-50°	5531.6	18.3
50°-60°	7011.9	23.1
60°-70°	6860.9	22.6
70°-80°	3272.7	10.8
80°-90°	349.8	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°	30304.0	100.0
0°-180°	30304.0	100.0

Coefficient of Utilization



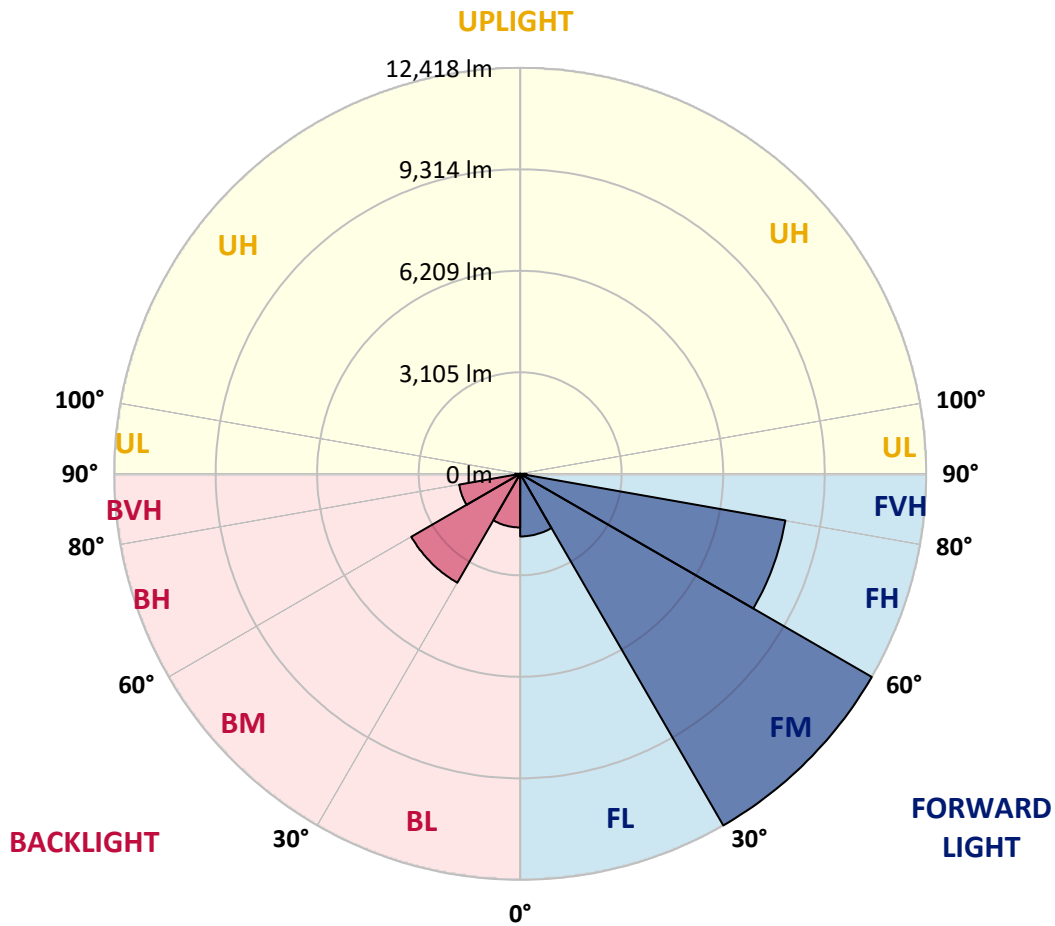
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.9	6.3			
FM (30°-60°)	12418.3	41.0			
FH (60°-80°)	8237.5	27.2			G4/12000
FVH (80°-90°)	198.3	0.7			G2/225
BL (0°-30°)	1641.4	5.4	B3/2500		
BM (30°-60°)	3845.9	12.7	B3/5000		
BH (60°-80°)	1896.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	151.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1
2.5°	3326.1	3345.2	3340.4	3332.5	3330.9	3334.0	3338.8	3343.6	3342.0	3350.0	3362.7
5°	3316.5	3335.6	3334.0	3334.0	3340.4	3353.2	3361.1	3369.1	3361.1	3370.7	3388.2
7.5°	3322.9	3337.2	3343.6	3350.0	3365.9	3389.8	3408.9	3426.4	3416.8	3428.0	3450.3
10°	3404.1	3415.2	3421.6	3421.6	3432.8	3459.8	3478.9	3510.8	3502.8	3520.3	3549.0
12.5°	3552.2	3563.3	3563.3	3557.0	3564.9	3582.4	3588.8	3623.8	3609.5	3638.2	3666.8
15°	3733.7	3756.0	3738.5	3727.3	3730.5	3748.0	3746.4	3773.5	3759.2	3783.0	3808.5
17.5°	3934.3	3963.0	3934.3	3932.7	3926.3	3945.4	3947.0	3970.9	3945.4	3963.0	3980.5
20°	4171.5	4211.3	4187.5	4195.4	4181.1	4189.1	4197.0	4232.0	4192.2	4205.0	4200.2
22.5°	4505.9	4553.7	4528.2	4558.4	4548.9	4542.5	4540.9	4603.0	4540.9	4545.7	4499.5
25°	4993.1	5050.4	5005.8	5047.2	5047.2	5067.9	5091.8	5171.4	5067.9	5037.7	4918.3
27.5°	5712.8	5770.1	5682.5	5708.0	5700.0	5751.0	5725.5	5922.9	5811.5	5762.1	5521.7
30°	6578.9	6680.8	6515.2	6508.9	6500.9	6582.1	6618.7	6749.3	6636.2	6586.9	6297.1
32.5°	7515.1	7621.8	7424.4	7367.1	7336.8	7386.2	7355.9	7461.0	7383.0	7306.6	6948.3
35°	8505.5	8610.6	8422.7	8311.2	8190.2	8086.7	7978.5	8005.5	7932.3	7816.1	7445.1
37.5°	9441.7	9634.3	9435.3	9315.9	9093.0	8890.8	8588.3	8462.5	8394.0	8287.4	7913.2
40°	10395.4	10505.3	10354.0	10252.1	10010.1	9693.3	9209.2	8943.3	8851.0	8747.5	8430.6
42.5°	11097.6	11202.7	11121.5	11051.4	10861.9	10494.1	9868.4	9535.6	9401.9	9285.7	9016.6
45°	11654.8	11732.9	11681.9	11707.4	11626.2	11269.5	10551.4	10170.9	10032.4	9890.7	9678.9
47.5°	11879.3	11962.1	12043.3	12194.6	12333.1	12070.4	11285.4	10858.7	10712.3	10567.4	10358.8
50°	11853.9	11938.2	12173.9	12495.5	12925.4	12837.8	12059.3	11591.1	11455.8	11290.2	11097.6
52.5°	11650.1	11745.6	12048.1	12583.1	13267.7	13412.6	12847.4	12347.4	12220.1	12022.6	11830.0
55°	11115.1	11172.4	11626.2	12384.1	13348.9	13813.8	13619.6	13153.1	13025.7	12750.3	12540.1
57.5°	10123.1	10205.9	10866.7	11847.5	13145.1	14086.1	14297.9	14000.1	13877.5	13481.1	13261.4
60°	8828.7	8960.8	9717.1	10946.3	12626.1	14084.5	14914.0	14832.8	14730.9	14200.7	13971.5
62.5°	7363.9	7516.7	8244.4	9672.6	11718.5	13684.9	15299.4	15530.2	15477.7	14864.7	14571.7
65°	5655.5	5760.5	6485.0	8024.6	10306.2	12826.7	15343.9	16006.3	16015.8	15369.4	14885.4
67.5°	3765.5	4068.0	4697.0	6021.7	8414.7	11424.0	14952.3	16084.3	16176.7	15543.0	14727.8
70°	1837.4	2235.4	2851.6	3913.6	6021.7	9272.9	13928.5	15444.2	15649.6	15036.6	13788.4
72.5°	762.7	891.6	1227.6	1931.3	3456.6	6257.3	11871.4	13708.8	14089.3	13323.4	11592.7
75°	514.3	557.3	702.2	990.3	1574.7	3085.7	8561.2	10221.9	10834.9	10062.6	8225.3
77.5°	396.5	423.5	511.1	692.6	936.2	1167.1	4582.3	6160.2	6477.0	5996.2	4279.8
80°	312.1	332.8	382.1	504.7	663.9	624.1	1561.9	2791.1	2974.2	2495.0	1375.7
82.5°	270.7	278.6	273.9	342.3	441.0	364.6	512.7	1030.1	1136.8	824.8	449.0
85°	195.8	218.1	227.7	211.8	234.1	184.7	210.2	364.6	401.2	358.2	253.2
87.5°	79.6	117.8	144.9	136.9	86.0	52.5	65.3	106.7	122.6	133.7	82.8
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°	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1	3361.1
2.5°	3364.3	3375.4	3383.4	3393.0	3399.3	3408.9	3428.0	3439.1	3440.7	3448.7	3447.1
5°	3394.6	3410.5	3428.0	3453.5	3482.1	3506.0	3542.6	3568.1	3577.7	3585.6	3584.0
7.5°	3459.8	3482.1	3514.0	3558.5	3599.9	3631.8	3676.4	3706.6	3736.9	3748.0	3749.6
10°	3557.0	3588.8	3635.0	3695.5	3740.1	3781.5	3827.6	3853.1	3883.4	3896.1	3902.5
12.5°	3678.0	3711.4	3771.9	3856.3	3897.7	3926.3	3942.3	3935.9	3942.3	3953.4	3956.6
15°	3816.5	3853.1	3921.6	4012.3	4041.0	4015.5	3980.5	3948.6	3943.9	3947.0	3958.2
17.5°	3980.5	4007.5	4087.2	4163.6	4142.9	4037.8	3961.4	3910.4	3884.9	3877.0	3888.1
20°	4209.8	4209.8	4275.0	4322.8	4184.3	4006.0	3886.5	3803.7	3751.2	3728.9	3724.1
22.5°	4488.4	4462.9	4504.3	4470.9	4176.3	3916.8	3751.2	3607.9	3528.3	3496.5	3491.7
25°	4841.9	4811.6	4800.5	4593.5	4119.0	3775.1	3506.0	3332.5	3262.4	3244.9	3248.1
27.5°	5375.2	5298.8	5153.9	4660.3	4013.9	3552.2	3219.4	3058.6	3018.8	3020.4	3025.2
30°	6085.4	5932.5	5577.4	4671.5	3842.0	3236.9	2926.4	2811.8	2792.7	2800.7	2827.7
32.5°	6742.9	6598.0	6010.5	4620.5	3577.7	2928.0	2663.7	2587.3	2558.7	2568.2	2580.9
35°	7258.8	7219.0	6411.8	4548.9	3252.8	2638.3	2428.1	2362.8	2307.1	2294.3	2303.9
37.5°	7746.0	7730.1	6712.7	4448.6	2931.2	2432.9	2238.6	2152.6	2071.4	2026.9	2028.5
40°	8281.0	8265.1	6910.1	4294.1	2646.2	2254.5	2068.3	1955.2	1854.9	1773.7	1781.7
42.5°	8882.8	8788.9	7004.0	4072.8	2404.2	2103.3	1929.7	1776.9	1644.7	1569.9	1574.7
45°	9540.4	9328.6	7002.5	3791.0	2200.4	1964.8	1781.7	1565.1	1442.5	1372.5	1369.3
47.5°	10237.8	9844.5	6916.5	3478.9	2003.0	1811.9	1552.4	1386.8	1305.6	1262.6	1253.1
50°	10957.5	10326.9	6770.0	3120.7	1800.8	1638.4	1409.1	1296.0	1233.9	1194.1	1179.8
52.5°	11634.1	10764.8	6593.3	2714.7	1595.4	1469.6	1345.4	1257.8	1192.6	1148.0	1128.9
55°	12263.1	11142.1	6343.3	2299.1	1428.2	1356.5	1315.1	1241.9	1167.1	1114.5	1093.8
57.5°	12821.9	11387.3	5911.8	1909.0	1308.8	1278.5	1283.3	1214.8	1128.9	1084.3	1055.6
60°	13286.8	11567.3	5273.3	1547.6	1211.7	1202.1	1233.9	1163.9	1063.6	1012.6	990.3
62.5°	13565.5	11564.1	4490.0	1267.4	1128.9	1132.0	1168.7	1100.2	998.3	950.5	936.2
65°	13541.6	11280.7	3630.2	1084.3	1049.3	1052.4	1100.2	1030.1	944.2	915.5	913.9
67.5°	13062.3	10589.7	2784.7	964.9	961.7	976.0	1031.7	982.4	910.7	907.5	912.3
70°	11764.7	9155.1	2006.2	869.3	870.9	891.6	964.9	952.1	893.2	899.6	898.0
72.5°	9433.7	6980.2	1347.0	769.0	770.6	804.1	901.2	928.2	875.7	960.1	972.8
75°	6282.8	4353.0	866.2	662.4	663.9	706.9	845.5	882.1	827.9	956.9	964.9
77.5°	3018.8	1956.8	627.3	557.3	557.3	597.1	730.8	789.7	705.3	743.6	681.5
80°	1042.9	735.6	493.6	449.0	439.4	466.5	616.2	684.6	608.2	560.5	525.4
82.5°	410.8	382.1	396.5	348.7	316.8	334.4	479.2	565.2	447.4	404.4	402.8
85°	235.6	248.4	280.2	230.9	183.1	205.4	351.9	406.0	337.5	297.7	304.1
87.5°	63.7	87.6	129.0	119.4	82.8	87.6	167.2	224.5	194.2	149.7	154.4
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)