

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: P884601

Luminaire Tested: **NAV-SB5C-727-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34039 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

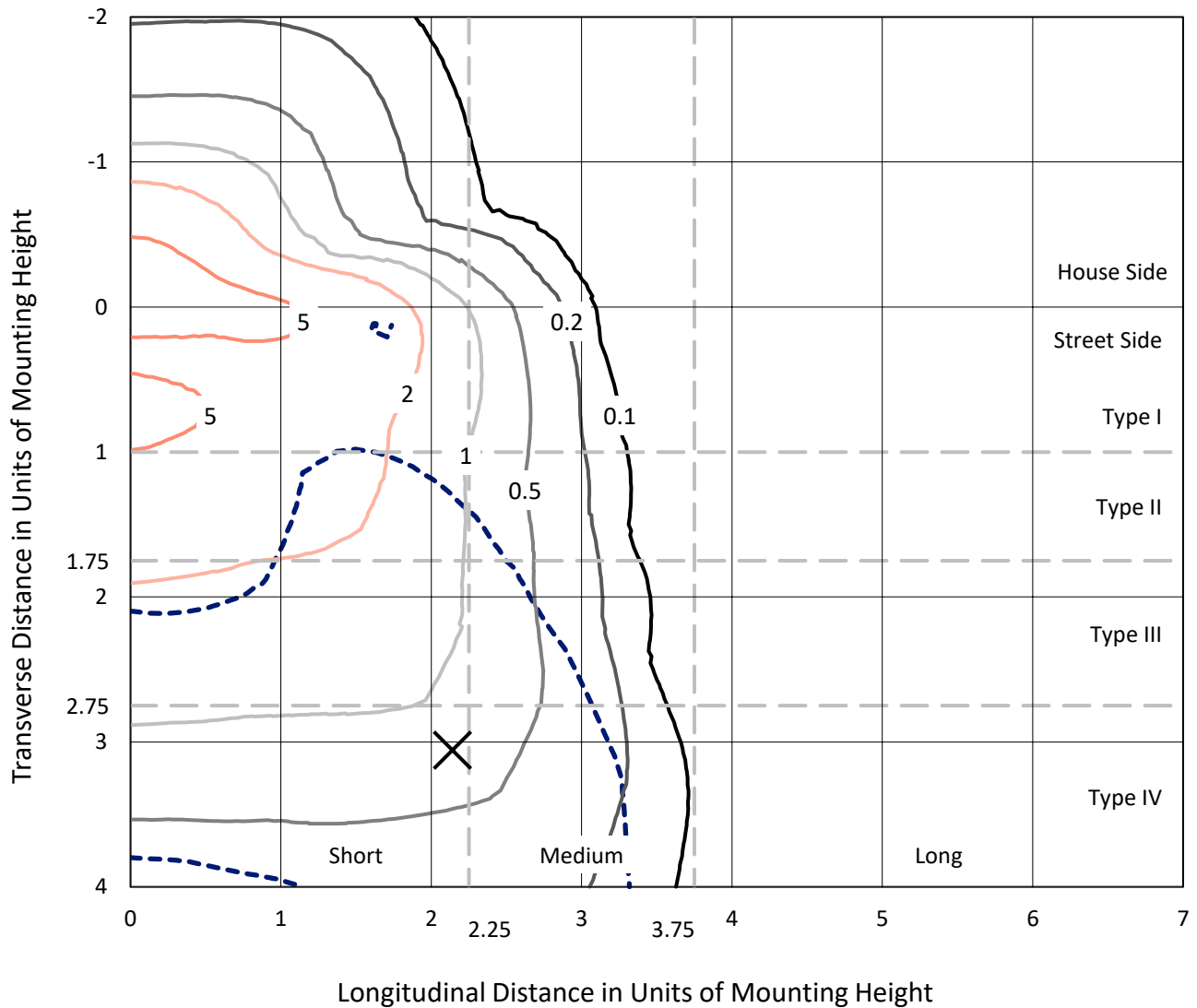
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

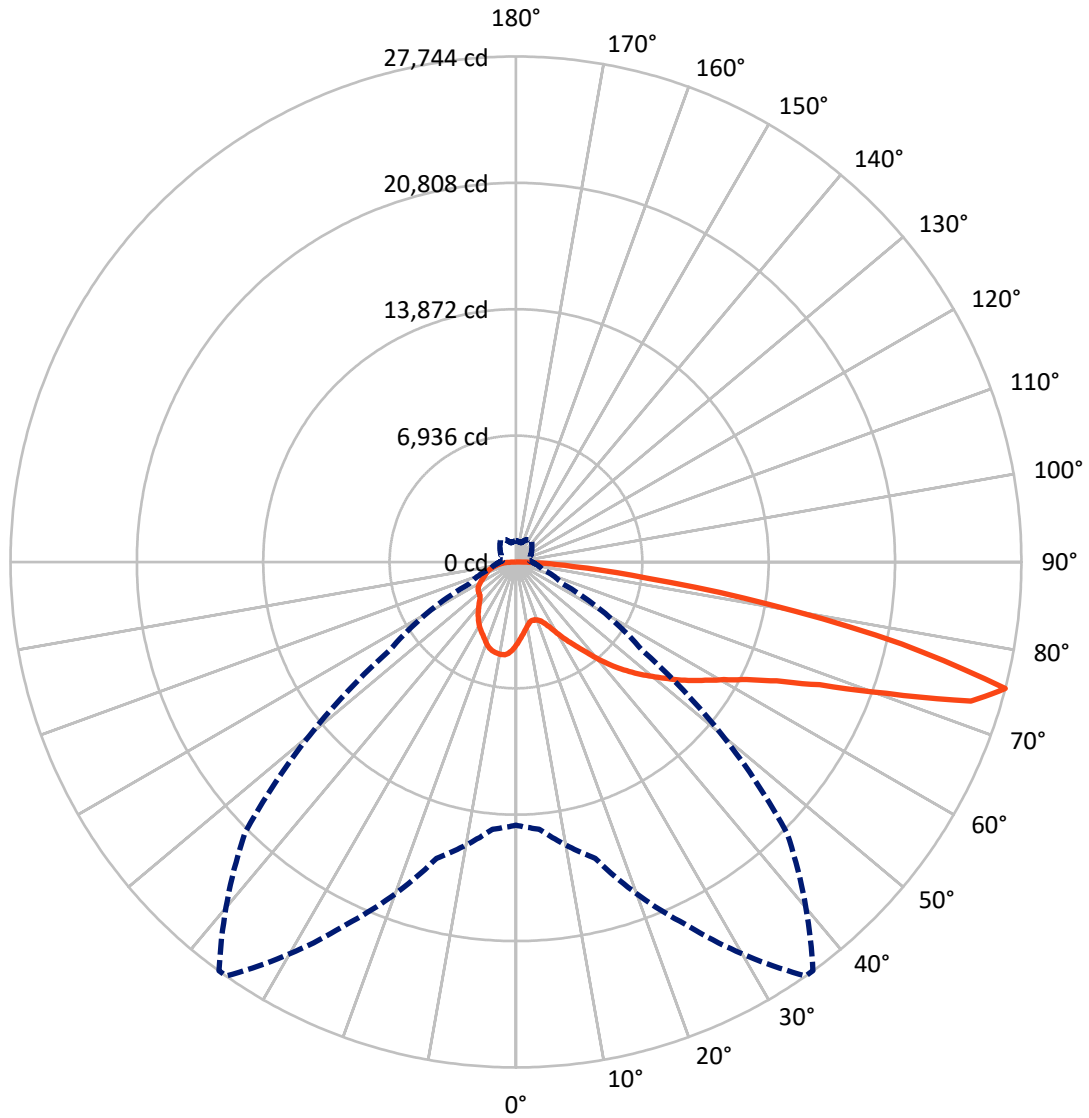
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8100.4	0.0	8100.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25938.6	0.0	25938.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	34039.0	0.0	34039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.3
10°-20°	1238.8	3.6
20°-30°	2080.2	6.1
30°-40°	3232.9	9.5
40°-50°	4798.5	14.1
50°-60°	6624.6	19.5
60°-70°	8037.2	23.6
70°-80°	6642.1	19.5
80°-90°	955.3	2.8
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°	34039.0	100.0
0°-180°	34039.0	100.0

Coefficient of Utilization



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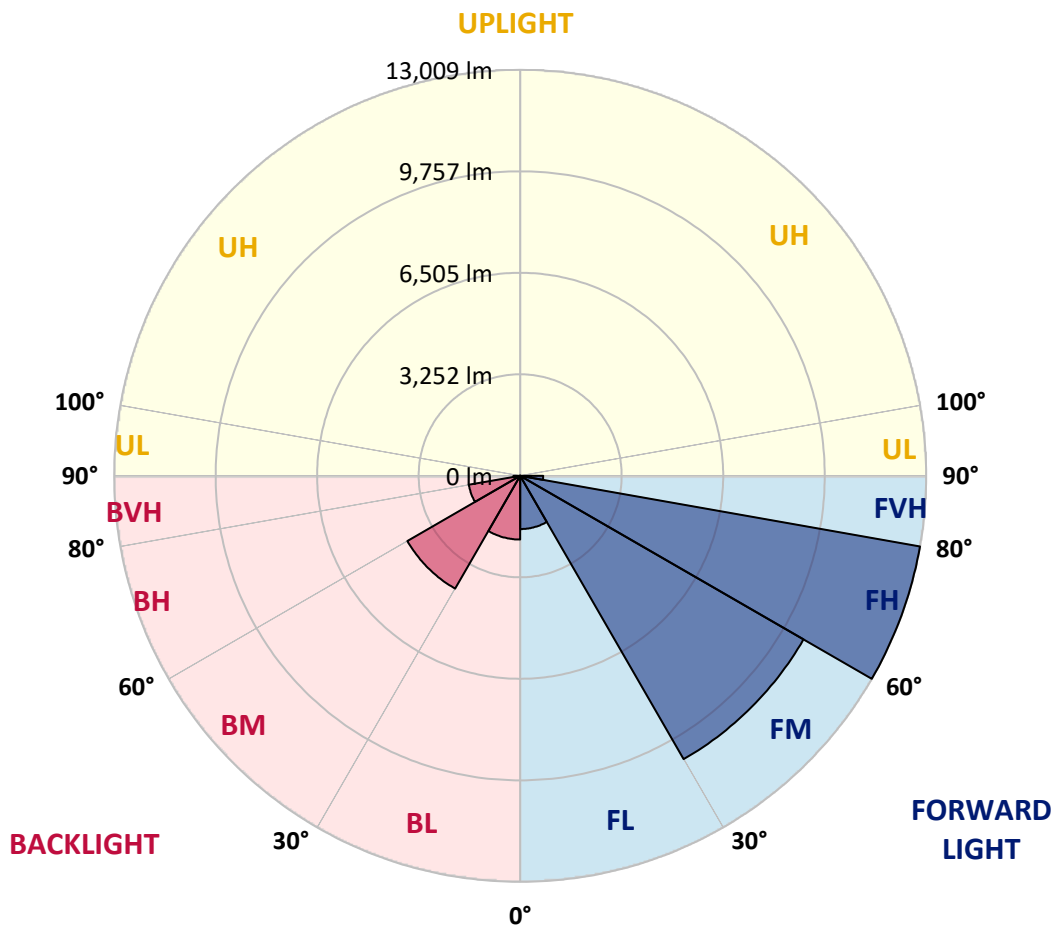
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.0	5.0			
FM (30°-60°)	10482.2	30.8			
FH (60°-80°)	13009.2	38.2			G5
FVH (80°-90°)	740.2	2.2			G4/750
BL (0°-30°)	2041.4	6.0	B3/2500		
BM (30°-60°)	4173.8	12.3	B3/5000		
BH (60°-80°)	1670.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	215.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9
2.5°	4182.6	4208.4	4219.4	4213.9	4241.5	4237.8	4276.5	4324.3	4390.6	4455.0	4548.8
5°	3860.6	3888.2	3912.1	3934.2	3987.6	4004.1	4064.9	4156.9	4278.3	4401.6	4556.2
7.5°	3560.7	3584.6	3621.4	3661.9	3752.0	3768.6	3869.8	4013.3	4182.6	4363.0	4576.4
10°	3315.9	3339.8	3378.5	3424.5	3536.7	3557.0	3685.8	3877.2	4098.0	4326.2	4598.5
12.5°	3211.0	3218.4	3240.5	3286.5	3384.0	3396.9	3538.6	3757.6	4015.2	4298.5	4631.6
15°	3205.5	3220.2	3222.1	3246.0	3327.0	3332.5	3463.1	3680.3	3963.6	4293.0	4681.3
17.5°	3260.7	3271.8	3255.2	3269.9	3338.0	3347.2	3450.2	3643.5	3947.1	4317.0	4765.9
20°	3407.9	3417.1	3367.4	3347.2	3396.9	3404.2	3505.5	3667.4	3963.6	4366.6	4881.9
22.5°	3720.7	3726.3	3604.8	3522.0	3525.7	3529.4	3617.7	3764.9	4028.1	4456.8	5029.1
25°	4208.4	4204.7	4011.5	3851.4	3759.4	3739.1	3798.0	3923.2	4136.6	4576.4	5218.6
27.5°	4778.8	4751.2	4558.0	4318.8	4118.2	4088.8	4075.9	4129.3	4291.2	4734.7	5450.5
30°	5422.9	5397.1	5189.2	4876.4	4598.5	4550.6	4429.2	4401.6	4521.2	4950.0	5772.5
32.5°	6129.5	6112.9	5864.5	5485.4	5113.7	5058.5	4854.3	4780.7	4874.5	5275.7	6221.5
35°	6722.0	6707.3	6501.2	6111.1	5656.6	5588.5	5380.5	5297.7	5345.6	5693.4	6808.5
37.5°	7257.5	7250.1	7073.5	6766.2	6296.9	6214.1	5980.4	5952.8	5943.6	6243.6	7520.6
40°	7754.3	7735.9	7551.9	7390.0	7042.2	6966.7	6760.6	6736.7	6666.8	6920.7	8326.6
42.5°	8304.5	8256.7	7989.9	7914.4	7820.6	7758.0	7634.7	7638.4	7483.8	7684.4	9180.4
45°	8753.5	8725.9	8451.7	8407.6	8508.8	8483.0	8589.7	8617.3	8317.4	8484.9	10067.4
47.5°	9235.6	9209.9	8978.0	8946.7	9220.9	9228.3	9605.5	9614.7	9130.7	9316.6	10956.1
50°	9830.0	9793.2	9563.2	9601.8	9909.1	9936.7	10626.8	10564.2	9879.7	10161.2	11837.6
52.5°	10221.9	10244.0	10194.3	10256.9	10676.4	10702.2	11631.5	11471.4	10621.2	10994.8	12702.4
55°	10510.8	10555.0	10709.6	10853.1	11486.1	11511.9	12579.1	12334.4	11235.9	11767.6	13515.8
57.5°	10882.5	10820.0	11108.9	11388.6	12255.3	12323.4	13501.1	13166.1	11780.5	12433.8	14073.3
60°	11416.2	11372.0	11596.5	12010.5	13116.5	13225.0	14476.3	13915.1	12179.8	12961.9	14181.9
62.5°	12498.2	12387.8	12422.7	12788.9	14202.1	14345.7	15576.7	14568.3	12378.6	13168.0	13600.4
65°	14115.7	13926.1	13749.5	14003.4	15731.3	15873.0	16818.8	15081.7	12305.0	12768.7	12056.5
67.5°	16152.7	15965.0	15747.9	15987.1	17983.6	18095.9	18351.6	15370.6	11725.3	11230.3	9327.6
70°	17832.7	17762.8	18022.3	19006.7	21581.1	21584.8	20316.9	15131.4	10137.3	7962.3	5397.1
72.5°	17610.1	17567.7	18935.0	21978.5	26115.2	26017.6	22177.3	13320.7	6828.7	3591.9	2022.3
75°	14446.9	14721.1	16839.1	21925.2	27743.7	27730.8	21038.2	8468.3	2824.6	1488.7	1045.2
77.5°	7747.0	8181.2	10932.2	16187.6	21658.4	21984.1	14791.0	2962.6	1212.6	953.2	723.2
80°	2526.5	2905.6	4357.4	8242.0	14073.3	14012.6	6339.3	1163.0	829.9	675.3	500.5
82.5°	1072.8	1117.0	1946.9	3891.9	7222.5	7110.3	2018.6	668.0	583.3	461.9	309.1
85°	419.6	469.2	859.3	1799.6	3128.2	3060.1	728.7	331.2	373.5	301.8	184.0
87.5°	138.0	167.5	307.3	616.4	973.4	938.5	178.5	114.1	161.9	138.0	66.2
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°	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9	4535.9
2.5°	4574.6	4604.0	4639.0	4690.5	4734.7	4771.5	4810.1	4834.0	4843.2	4870.8	4869.0
5°	4607.7	4672.1	4758.6	4843.2	4926.0	4975.7	5019.9	5042.0	5062.2	5076.9	5080.6
7.5°	4662.9	4745.7	4881.9	4992.3	5062.2	5102.7	5132.1	5124.8	5132.1	5135.8	5141.3
10°	4710.7	4826.7	4988.6	5093.5	5146.9	5148.7	5141.3	5115.6	5102.7	5104.5	5108.2
12.5°	4767.8	4896.6	5071.4	5159.7	5174.5	5134.0	5102.7	5058.5	5042.0	5034.6	5030.9
15°	4845.1	4992.3	5161.6	5194.7	5157.9	5106.4	5053.0	4981.2	4944.4	4915.0	4924.2
17.5°	4938.9	5100.8	5231.5	5207.6	5128.4	5043.8	4957.3	4848.7	4773.3	4742.0	4743.9
20°	5069.6	5214.9	5284.9	5180.0	5060.4	4931.6	4784.3	4651.9	4581.9	4550.6	4547.0
22.5°	5227.8	5367.7	5336.4	5132.1	4962.8	4756.7	4572.7	4475.2	4440.2	4418.2	4421.8
25°	5417.4	5537.0	5373.2	5062.2	4802.7	4524.9	4383.2	4351.9	4335.4	4318.8	4318.8
27.5°	5663.9	5728.3	5400.8	4959.2	4552.5	4278.3	4226.8	4232.3	4226.8	4199.2	4204.7
30°	5989.6	5976.8	5426.6	4791.7	4265.4	4055.7	4059.3	4083.3	4086.9	4068.5	4077.7
32.5°	6418.4	6287.7	5439.4	4574.6	3991.2	3860.6	3864.3	3890.0	3908.4	3877.2	3891.9
35°	6937.3	6650.2	5419.2	4302.2	3779.6	3674.7	3647.1	3654.5	3660.0	3630.6	3650.8
37.5°	7542.7	7056.9	5329.0	4000.4	3604.8	3492.6	3433.7	3384.0	3354.6	3327.0	3345.4
40°	8207.0	7500.4	5163.4	3706.0	3409.8	3299.4	3211.0	3117.2	3017.8	2981.0	2997.6
42.5°	8902.6	7956.7	4962.8	3424.5	3185.3	3095.1	3001.3	2865.1	2716.0	2640.6	2649.8
45°	9623.9	8424.1	4765.9	3146.6	2955.3	2916.6	2808.0	2644.3	2482.3	2386.7	2379.3
47.5°	10330.5	8865.8	4477.0	2866.9	2740.0	2782.3	2697.6	2546.7	2366.4	2215.5	2199.0
50°	11005.8	9279.8	4004.1	2583.5	2565.1	2741.8	2660.8	2443.7	2237.6	2044.4	2027.8
52.5°	11675.6	9614.7	3398.7	2325.9	2471.3	2730.8	2613.0	2373.8	2121.7	1919.3	1897.2
55°	12244.2	9787.7	2815.4	2105.1	2335.1	2636.9	2555.9	2291.0	1957.9	1742.6	1724.2
57.5°	12568.1	9647.8	2329.6	1888.0	2147.4	2482.3	2458.4	2114.3	1762.8	1597.2	1575.2
60°	12428.3	9081.1	1932.1	1698.4	1968.9	2314.9	2289.1	1939.5	1613.8	1457.4	1435.3
62.5°	11657.2	8000.9	1617.5	1532.8	1807.0	2143.8	2119.8	1805.2	1499.7	1348.8	1324.9
65°	10104.2	6508.5	1372.7	1394.8	1643.2	1937.7	1972.6	1692.9	1409.5	1262.3	1238.4
67.5°	7706.5	4714.4	1181.4	1275.2	1483.1	1735.2	1836.5	1612.0	1334.1	1194.2	1172.2
70°	4392.4	2677.4	1019.4	1159.3	1341.5	1547.6	1731.6	1547.6	1253.1	1137.2	1122.5
72.5°	1665.3	1229.2	881.4	1043.4	1205.3	1389.3	1615.6	1446.3	1159.3	1072.8	1058.1
75°	888.8	748.9	741.6	907.2	1048.9	1234.7	1470.3	1347.0	1089.4	1133.5	1170.3
77.5°	605.4	530.0	620.1	776.5	877.7	1063.6	1315.7	1196.1	944.0	940.3	866.7
80°	419.6	375.4	504.2	625.6	679.0	894.3	1148.2	1026.8	769.2	717.7	686.4
82.5°	252.1	244.7	377.2	467.4	480.3	690.0	951.3	861.2	629.3	548.4	552.0
85°	138.0	145.4	241.1	274.2	279.7	482.1	745.3	666.1	484.0	406.7	410.3
87.5°	38.6	49.7	88.3	108.6	134.3	250.3	443.5	395.6	242.9	169.3	169.3
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)