

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: STREETWORKS

Report Number: P884831

Luminaire Tested: **NVN-SB5D-827-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884831
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: STREETWORKS
Catalog Number: NVN-SB5D-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA 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: 41467 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

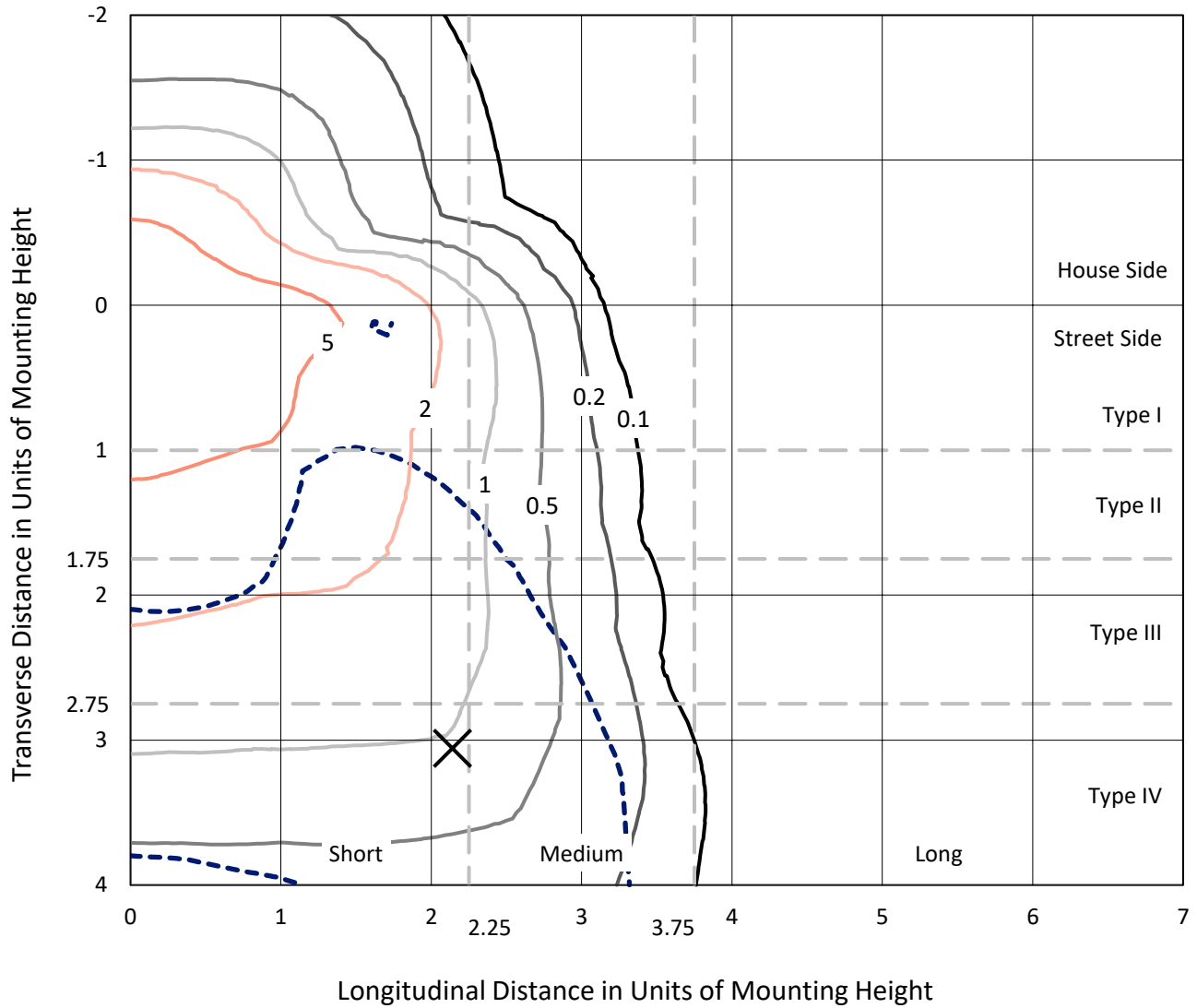
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

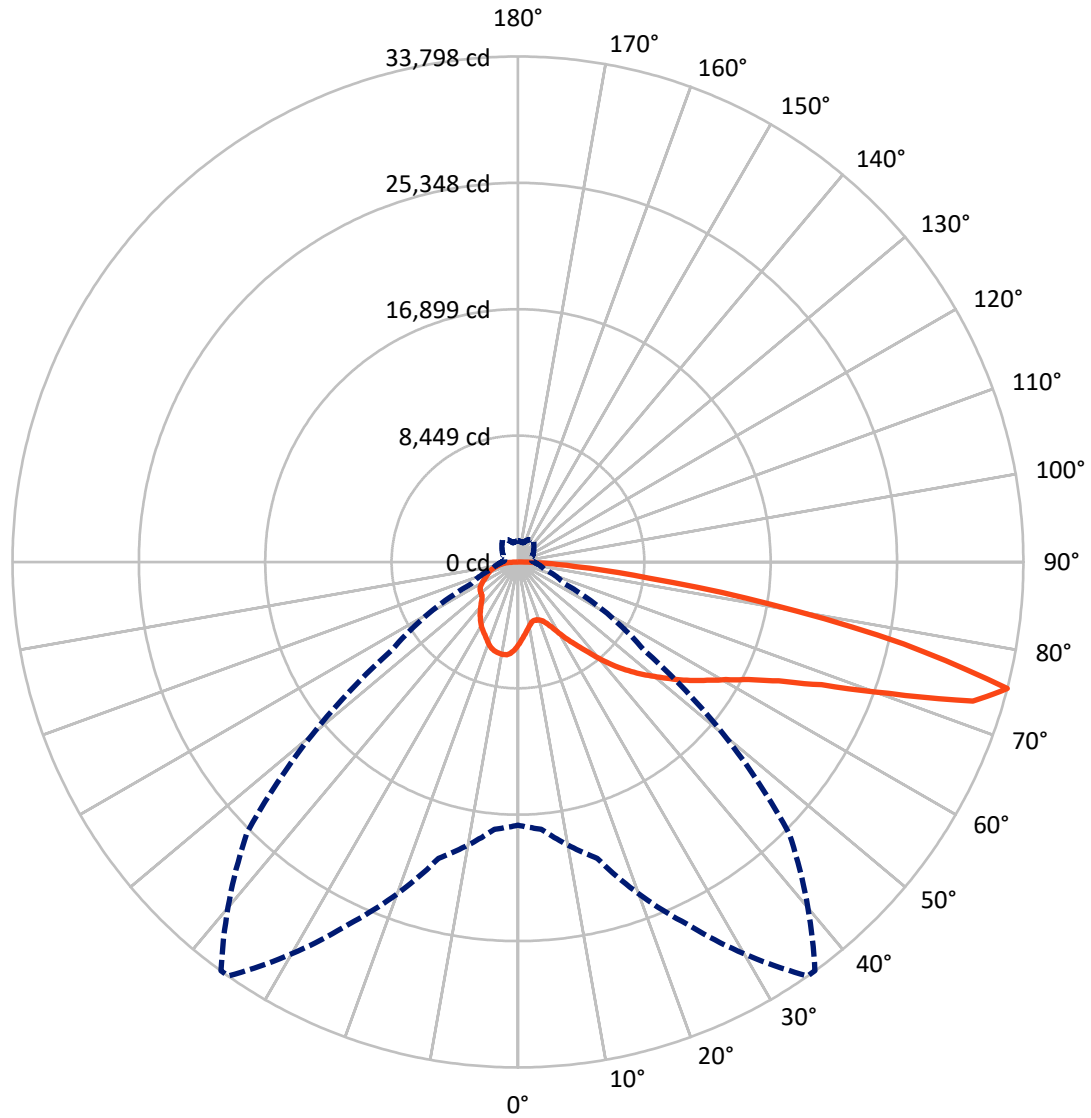
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	9868.1	0.0	9868.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31598.9	0.0	31598.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	41467.0	0.0	41467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.2	1.3
10°-20°	1509.1	3.6
20°-30°	2534.1	6.1
30°-40°	3938.4	9.5
40°-50°	5845.6	14.1
50°-60°	8070.2	19.5
60°-70°	9791.0	23.6
70°-80°	8091.5	19.5
80°-90°	1163.8	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°	41467.0	100.0
0°-180°	41467.0	100.0

Coefficient of Utilization



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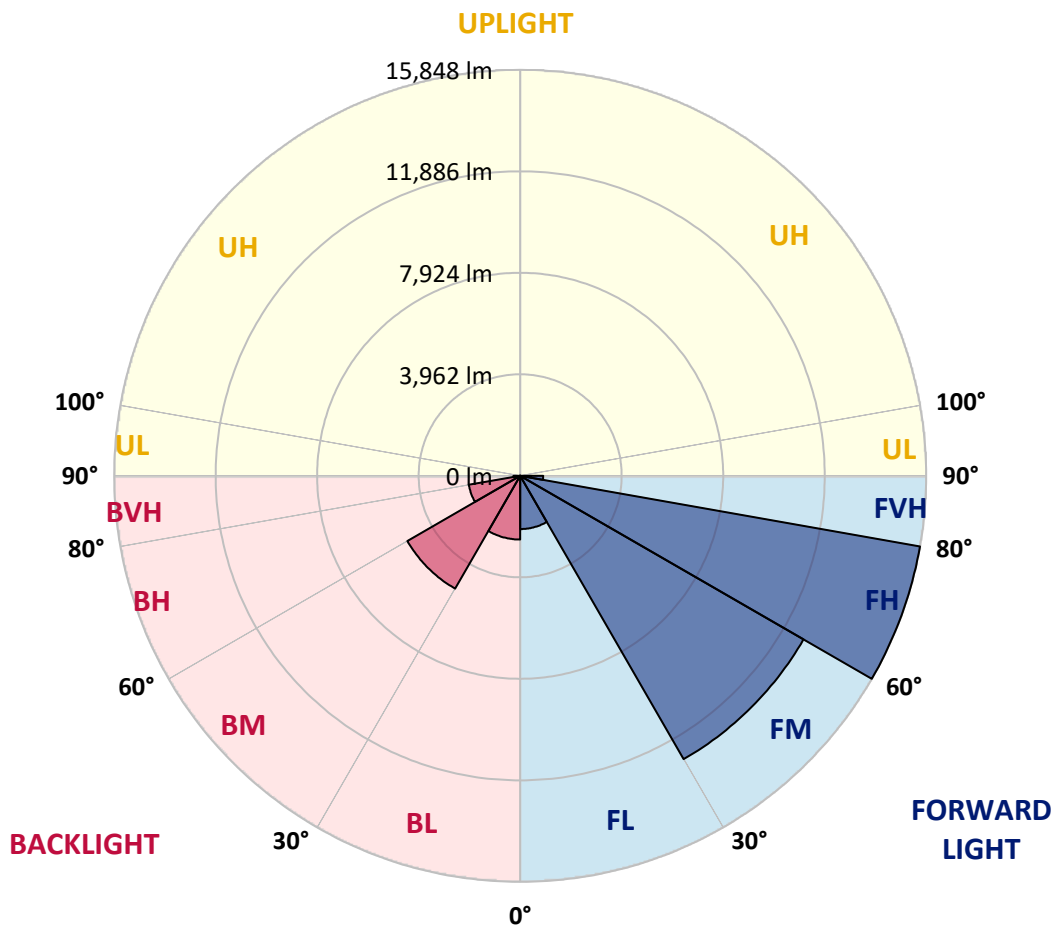
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2079.5	5.0			
FM (30°-60°)	12769.6	30.8			
FH (60°-80°)	15848.1	38.2			G5
FVH (80°-90°)	901.7	2.2			G5
BL (0°-30°)	2486.9	6.0	B3/2500		
BM (30°-60°)	5084.6	12.3	B4/8500		
BH (60°-80°)	2034.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	262.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8
2.5°	5095.4	5126.7	5140.2	5133.5	5167.1	5162.6	5209.7	5268.0	5348.7	5427.1	5541.5
5°	4703.1	4736.7	4765.8	4792.7	4857.7	4877.9	4951.9	5064.0	5211.9	5362.1	5550.4
7.5°	4337.7	4366.8	4411.6	4461.0	4570.8	4591.0	4714.3	4889.1	5095.4	5315.0	5575.1
10°	4039.5	4068.7	4115.7	4171.8	4308.5	4333.2	4490.1	4723.2	4992.2	5270.2	5602.0
12.5°	3911.7	3920.7	3947.6	4003.7	4122.5	4138.2	4310.8	4577.5	4891.4	5236.6	5642.3
15°	3905.0	3923.0	3925.2	3954.3	4053.0	4059.7	4218.9	4483.4	4828.6	5229.9	5702.9
17.5°	3972.3	3985.7	3965.5	3983.5	4066.4	4077.6	4203.2	4438.5	4808.4	5259.0	5806.0
20°	4151.6	4162.8	4102.3	4077.6	4138.2	4147.1	4270.4	4467.7	4828.6	5319.5	5947.2
22.5°	4532.7	4539.4	4391.5	4290.6	4295.1	4299.6	4407.2	4586.5	4907.1	5429.4	6126.5
25°	5126.7	5122.3	4886.9	4691.9	4579.8	4555.1	4626.8	4779.3	5039.3	5575.1	6357.4
27.5°	5821.7	5788.0	5552.7	5261.2	5016.9	4981.0	4965.3	5030.3	5227.6	5767.9	6639.9
30°	6606.3	6574.9	6321.6	5940.5	5602.0	5543.7	5395.7	5362.1	5507.8	6030.1	7032.2
32.5°	7467.1	7446.9	7144.3	6682.5	6229.6	6162.4	5913.6	5823.9	5938.2	6426.9	7579.1
35°	8188.9	8170.9	7919.9	7444.6	6890.9	6808.0	6554.7	6453.8	6512.1	6935.8	8294.2
37.5°	8841.2	8832.2	8617.0	8242.7	7671.1	7570.2	7285.5	7251.9	7240.6	7606.0	9161.8
40°	9446.5	9424.1	9199.9	9002.6	8578.9	8487.0	8236.0	8206.8	8121.6	8431.0	10143.6
42.5°	10116.7	10058.4	9733.4	9641.5	9527.2	9451.0	9300.8	9305.2	9116.9	9361.3	11183.8
45°	10663.7	10630.1	10296.1	10242.3	10365.6	10334.2	10464.2	10497.8	10132.4	10336.4	12264.3
47.5°	11251.0	11219.6	10937.2	10899.1	11233.1	11242.1	11701.6	11712.8	11123.3	11349.7	13347.0
50°	11975.1	11930.3	11650.0	11697.1	12071.5	12105.1	12945.7	12869.5	12035.6	12378.6	14420.8
52.5°	12452.6	12479.5	12418.9	12495.2	13006.3	13037.7	14169.7	13974.7	12939.0	13394.1	15474.4
55°	12804.5	12858.3	13046.6	13221.5	13992.6	14024.0	15324.2	15026.0	13687.7	14335.6	16465.2
57.5°	13257.3	13181.1	13533.1	13873.8	14929.6	15012.6	16447.3	16039.3	14351.3	15147.1	17144.4
60°	13907.4	13853.6	14127.1	14631.5	15978.7	16111.0	17635.4	16951.6	14837.7	15790.4	17276.7
62.5°	15225.5	15091.0	15133.6	15579.7	17301.3	17476.2	18975.9	17747.4	15079.8	16041.5	16568.3
65°	17196.0	16965.1	16749.9	17059.2	19164.2	19336.8	20489.0	18372.9	14990.2	15555.1	14687.5
67.5°	19677.5	19448.9	19184.4	19475.8	21908.0	22044.7	22356.3	18724.8	14284.0	13681.0	11363.1
70°	21724.2	21639.0	21955.1	23154.4	26290.5	26295.0	24750.5	18433.4	12349.5	9699.8	6574.9
72.5°	21452.9	21401.4	23067.0	26774.7	31814.0	31695.2	27016.8	16227.6	8318.9	4375.8	2463.6
75°	17599.5	17933.5	20513.7	26709.7	33797.9	33782.2	25629.2	10316.2	3441.0	1813.5	1273.3
77.5°	9437.5	9966.5	13317.9	19720.1	26384.7	26781.4	18018.7	3609.1	1477.3	1161.2	881.0
80°	3077.8	3539.6	5308.3	10040.5	17144.4	17070.4	7722.6	1416.7	1011.0	822.7	609.7
82.5°	1306.9	1360.7	2371.7	4741.2	8798.6	8661.9	2459.1	813.7	710.6	562.7	376.6
85°	511.1	571.6	1046.9	2192.4	3810.9	3727.9	887.7	403.5	455.1	367.6	224.2
87.5°	168.1	204.0	374.4	751.0	1185.9	1143.3	217.4	139.0	197.3	168.1	80.7
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°	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8	5525.8
2.5°	5572.8	5608.7	5651.3	5714.1	5767.9	5812.7	5859.8	5888.9	5900.1	5933.7	5931.5
5°	5613.2	5691.6	5797.0	5900.1	6001.0	6061.5	6115.3	6142.2	6166.9	6184.8	6189.3
7.5°	5680.4	5781.3	5947.2	6081.7	6166.9	6216.2	6252.1	6243.1	6252.1	6256.5	6263.3
10°	5738.7	5879.9	6077.2	6205.0	6270.0	6272.2	6263.3	6231.9	6216.2	6218.4	6222.9
12.5°	5808.2	5965.1	6178.1	6285.7	6303.6	6254.3	6216.2	6162.4	6142.2	6133.3	6128.8
15°	5902.4	6081.7	6287.9	6328.3	6283.4	6220.7	6155.7	6068.2	6023.4	5987.5	5998.8
17.5°	6016.7	6214.0	6373.1	6344.0	6247.6	6144.5	6039.1	5906.8	5814.9	5776.8	5779.1
20°	6175.8	6352.9	6438.1	6310.3	6164.6	6007.7	5828.4	5667.0	5581.8	5543.7	5539.2
22.5°	6368.6	6539.0	6500.9	6252.1	6045.8	5794.8	5570.6	5451.8	5409.2	5382.3	5386.8
25°	6599.5	6745.2	6545.7	6166.9	5850.8	5512.3	5339.7	5301.6	5281.4	5261.2	5261.2
27.5°	6899.9	6978.4	6579.4	6041.3	5545.9	5211.9	5149.2	5155.9	5149.2	5115.5	5122.3
30°	7296.7	7281.0	6610.7	5837.4	5196.2	4940.7	4945.2	4974.3	4978.8	4956.4	4967.6
32.5°	7819.0	7659.8	6626.4	5572.8	4862.2	4703.1	4707.5	4738.9	4761.3	4723.2	4741.2
35°	8451.2	8101.5	6601.8	5241.1	4604.4	4476.6	4443.0	4452.0	4458.7	4422.8	4447.5
37.5°	9188.7	8596.9	6491.9	4873.4	4391.5	4254.7	4183.0	4122.5	4086.6	4053.0	4075.4
40°	9997.9	9137.1	6290.2	4514.8	4153.8	4019.3	3911.7	3797.4	3676.4	3631.5	3651.7
42.5°	10845.3	9693.1	6045.8	4171.8	3880.4	3770.5	3656.2	3490.3	3308.7	3216.8	3228.0
45°	11724.0	10262.4	5806.0	3833.3	3600.1	3553.1	3420.8	3221.3	3024.0	2907.5	2898.5
47.5°	12584.8	10800.4	5454.0	3492.5	3337.9	3389.4	3286.3	3102.5	2882.8	2699.0	2678.8
50°	13407.5	11304.8	4877.9	3147.3	3124.9	3340.1	3241.5	2977.0	2725.9	2490.5	2470.3
52.5°	14223.5	11712.8	4140.4	2833.5	3010.6	3326.7	3183.2	2891.8	2584.7	2338.1	2311.2
55°	14916.2	11923.5	3429.8	2564.5	2844.7	3212.3	3113.7	2790.9	2385.2	2122.9	2100.5
57.5°	15310.7	11753.2	2838.0	2300.0	2616.0	3024.0	2994.9	2575.7	2147.5	1945.8	1918.9
60°	15140.4	11062.7	2353.8	2069.1	2398.6	2820.0	2788.7	2362.7	1966.0	1775.4	1748.5
62.5°	14201.1	9746.9	1970.4	1867.3	2201.3	2611.6	2582.4	2199.1	1827.0	1643.2	1614.0
65°	12309.1	7928.8	1672.3	1699.2	2001.8	2360.5	2403.1	2062.4	1717.1	1537.8	1508.7
67.5°	9388.2	5743.2	1439.2	1553.5	1806.8	2113.9	2237.2	1963.7	1625.2	1454.9	1428.0
70°	5350.9	3261.7	1241.9	1412.3	1634.2	1885.3	2109.4	1885.3	1526.6	1385.4	1367.4
72.5°	2028.7	1497.4	1073.8	1271.0	1468.3	1692.5	1968.2	1762.0	1412.3	1306.9	1289.0
75°	1082.7	912.4	903.4	1105.2	1277.8	1504.2	1791.1	1640.9	1327.1	1380.9	1425.7
77.5°	737.5	645.6	755.4	946.0	1069.3	1295.7	1602.8	1457.1	1150.0	1145.5	1055.8
80°	511.1	457.3	614.2	762.2	827.2	1089.5	1398.8	1250.9	937.0	874.3	836.1
82.5°	307.1	298.1	459.5	569.4	585.1	840.6	1159.0	1049.1	766.7	668.0	672.5
85°	168.1	177.1	293.7	334.0	340.7	587.3	907.9	811.5	589.6	495.4	499.9
87.5°	47.1	60.5	107.6	132.3	163.6	304.9	540.2	482.0	295.9	206.2	206.2
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)