

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: P885477

Luminaire Tested: **NAV-SB6D-740-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65981 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

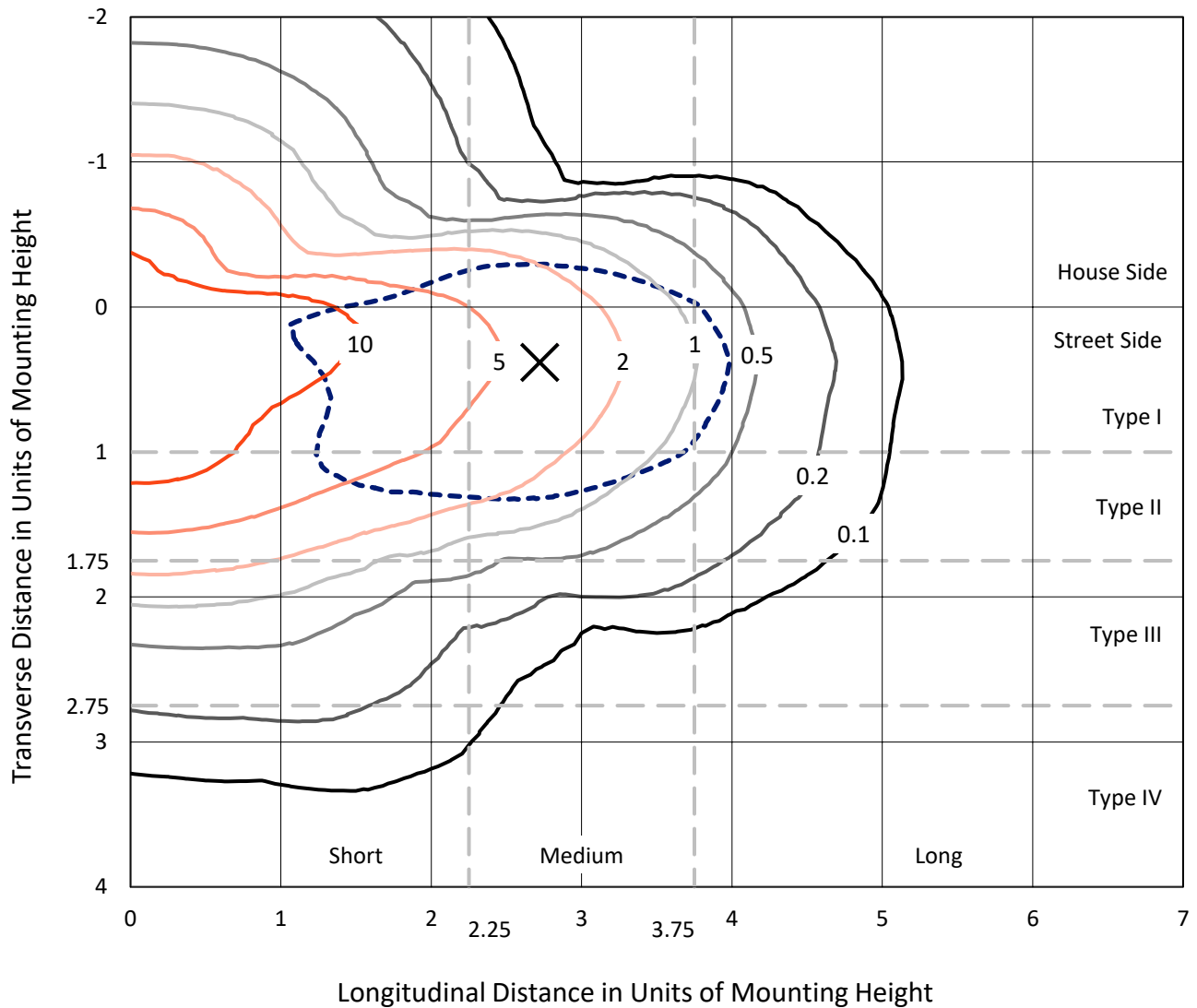
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

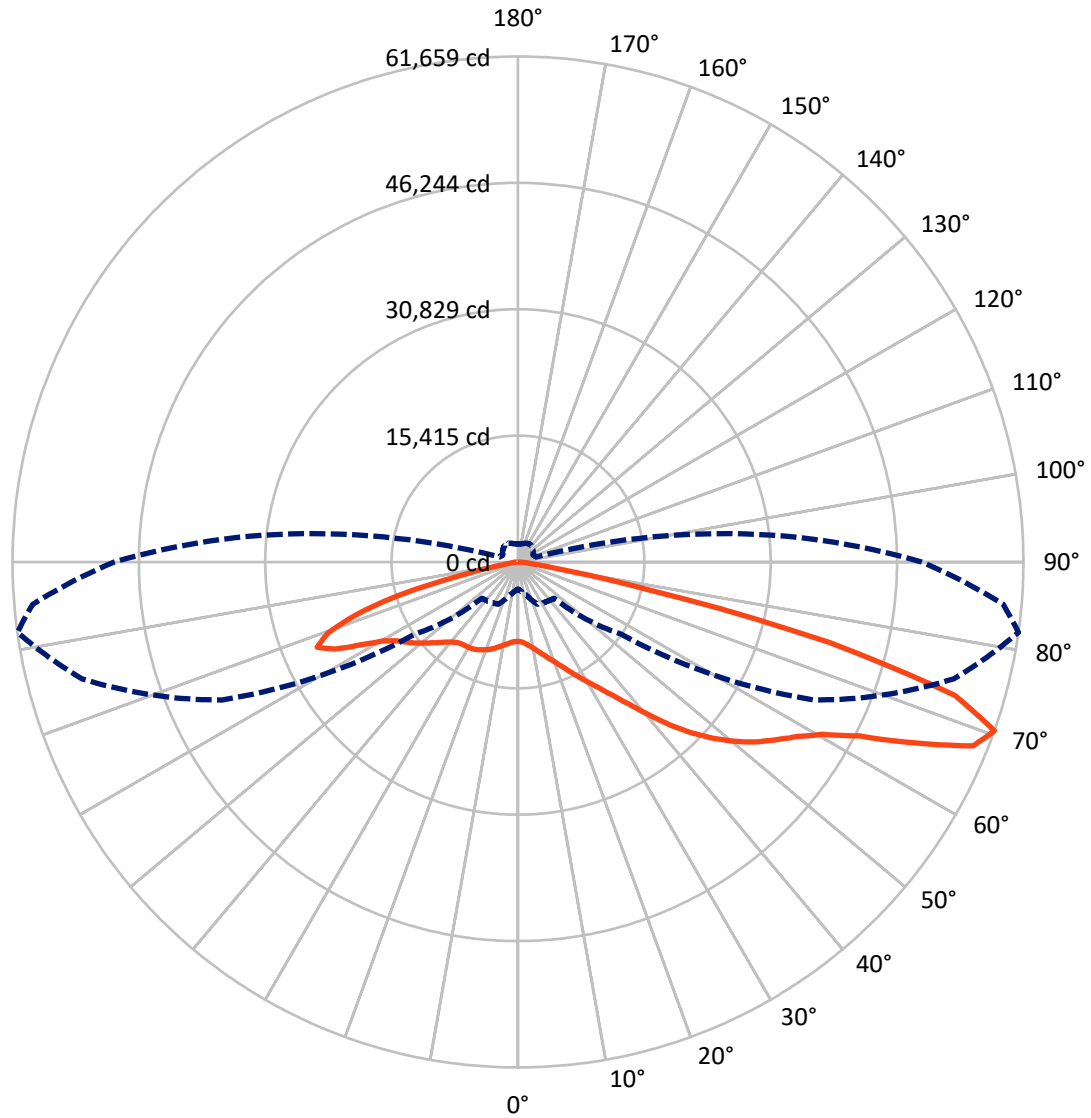
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16265.9	0.0	16265.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	49715.1	0.0	49715.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	65981.0	0.0	65981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.4	1.4
10°-20°	2624.1	4.0
20°-30°	4389.9	6.7
30°-40°	6858.2	10.4
40°-50°	10922.5	16.6
50°-60°	15200.0	23.0
60°-70°	15899.9	24.1
70°-80°	8310.1	12.6
80°-90°	862.9	1.3
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°	65981.0	100.0
0°-180°	65981.0	100.0

Coefficient of Utilization

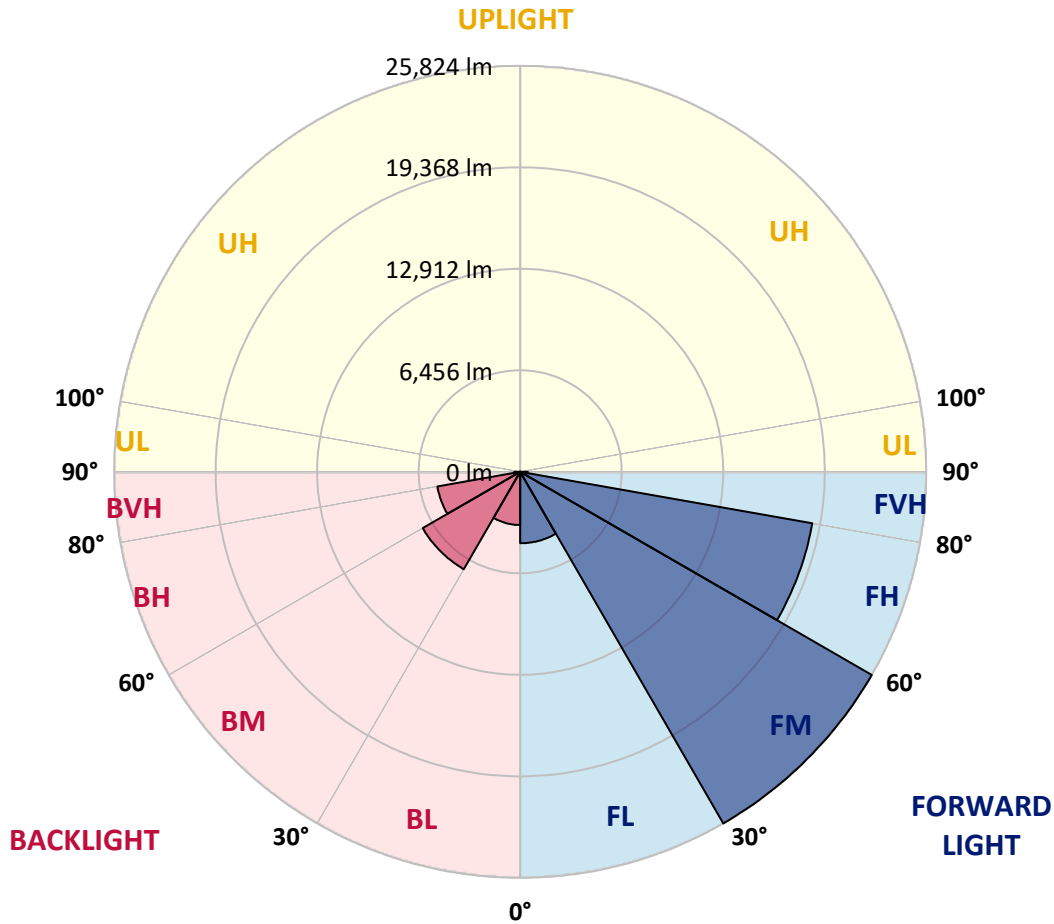


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.5	6.9			
FM (30°-60°)	25824.3	39.1			
FH (60°-80°)	18864.2	28.6			G5
FVH (80°-90°)	483.1	0.7			G3/500
BL (0°-30°)	3383.9	5.1	B4/5000		
BM (30°-60°)	7156.4	10.8	B4/8500		
BH (60°-80°)	5345.8	8.1	B5		G5
BVH (80°-90°)	379.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6
2.5°	9904.7	9960.7	9943.2	9925.7	9925.7	9901.2	9897.7	9862.7	9834.7	9789.2	9778.7
5°	10030.8	10090.3	10083.3	10097.3	10142.8	10153.3	10163.8	10142.8	10086.8	10030.8	10006.2
7.5°	9918.7	9985.2	10006.2	10090.3	10230.3	10356.4	10450.9	10489.4	10436.9	10356.4	10317.8
10°	9540.6	9614.1	9687.6	9887.2	10135.8	10433.4	10685.5	10836.0	10825.5	10748.5	10682.0
12.5°	8773.8	8850.9	9008.4	9397.0	9852.2	10377.4	10846.5	11161.6	11270.2	11214.1	11098.6
15°	8161.1	8227.7	8346.7	8745.8	9337.5	10135.8	10906.0	11518.7	11795.3	11763.8	11623.8
17.5°	8143.6	8171.7	8245.2	8434.2	8889.4	9757.7	10843.0	11868.9	12397.5	12394.0	12219.0
20°	8451.7	8462.2	8504.3	8542.8	8801.9	9470.6	10682.0	12159.4	13073.2	13073.2	12884.2
22.5°	8878.9	8871.9	8913.9	8878.9	9004.9	9446.1	10580.4	12415.0	13826.0	13882.0	13643.9
25°	9519.6	9484.6	9474.1	9393.5	9418.1	9673.6	10692.5	12705.6	14718.8	14834.3	14536.7
27.5°	10373.9	10317.8	10279.3	10093.8	10030.8	10142.8	11035.6	13055.7	15713.1	15912.7	15534.5
30°	11487.2	11385.7	11329.7	11007.6	10780.0	10797.5	11553.7	13521.4	16752.9	17075.0	16595.4
32.5°	13006.7	12849.2	12698.6	12169.9	11753.3	11616.8	12222.5	14165.6	17880.3	18395.0	17778.8
35°	14708.3	14582.2	14421.2	13605.4	12964.7	12649.6	13125.8	15065.4	19200.2	20016.0	19214.2
37.5°	16346.8	16238.3	16315.3	15215.9	14389.7	13931.0	14309.1	16273.3	20828.3	22032.7	21013.8
40°	18041.4	17957.3	17967.8	16917.5	15954.7	15440.0	15744.6	17789.3	22694.4	24430.9	23177.5
42.5°	19883.0	19819.9	19609.9	18678.6	17596.7	17117.1	17397.1	19539.8	24697.0	27161.8	25551.3
45°	21945.1	21906.6	21710.5	20642.7	19403.3	18864.1	19242.2	21472.5	26710.2	29731.6	27935.6
47.5°	23727.2	23758.7	23734.2	22834.4	21549.5	20758.2	21209.9	23489.1	28583.3	32147.4	30221.8
50°	24585.0	24749.5	24991.1	24711.0	23912.8	23107.5	23195.0	25435.8	30368.9	34412.7	32413.5
52.5°	24136.8	24448.4	25106.6	25554.8	25862.9	25694.8	25460.3	27368.4	32049.4	36457.3	34486.2
55°	22466.8	22904.4	23996.8	25078.6	26650.6	27872.5	28180.6	29511.1	33687.9	38256.9	36446.8
57.5°	19424.3	20135.0	21115.4	23303.6	25950.4	28926.4	31352.7	32483.5	35424.5	40179.0	38498.5
60°	14207.6	15159.9	16378.3	19634.4	23499.6	28362.7	34052.1	37049.0	37892.8	42668.3	41169.9
62.5°	9092.5	9680.6	10801.0	13868.0	18310.9	25474.3	34878.3	42755.9	42076.7	46750.7	45175.2
65°	6225.0	6603.1	7629.0	9351.5	11837.3	18962.2	32665.6	47034.3	48721.8	53220.8	52023.4
67.5°	4523.5	4810.6	5685.8	7194.8	7713.0	11221.1	25348.2	46838.2	55181.4	59886.9	58024.3
70°	3298.1	3501.1	4236.4	5685.8	5934.4	6242.5	15356.0	39814.9	55041.4	61658.5	59428.3
72.5°	2443.8	2583.8	3077.5	4411.4	4803.6	4215.4	7601.0	28936.9	47296.9	55769.6	53980.5
75°	1768.1	1873.1	2237.2	3375.1	3844.2	3210.5	3791.7	16910.5	32991.2	39230.2	39545.3
77.5°	1351.4	1432.0	1670.0	2471.8	3077.5	2408.8	2352.8	7779.5	15643.1	15720.1	16602.4
80°	1085.4	1137.9	1267.4	1740.1	2359.8	1803.1	1533.5	3140.5	4943.6	4183.9	4390.4
82.5°	798.3	885.8	1071.3	1221.9	1687.5	1242.9	934.8	1586.0	1880.1	1617.5	1631.5
85°	455.1	514.7	647.7	875.3	1078.3	759.7	535.7	703.7	875.3	717.7	640.7
87.5°	161.1	210.1	227.6	343.1	469.2	315.1	206.6	203.1	287.1	213.6	178.6
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°	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6	9673.6
2.5°	9743.7	9726.2	9656.1	9561.6	9463.6	9369.0	9337.5	9271.0	9225.5	9201.0	9229.0
5°	9939.7	9883.7	9719.2	9509.1	9288.5	9050.4	8882.4	8728.3	8616.3	8511.3	8553.3
7.5°	10219.8	10121.8	9838.2	9470.6	9078.4	8682.8	8388.7	8164.6	8014.1	7916.1	7937.1
10°	10545.4	10394.9	9960.7	9411.1	8805.4	8238.2	7891.6	7699.0	7604.5	7552.0	7566.0
12.5°	10920.0	10706.5	10086.8	9274.5	8388.7	7741.0	7502.9	7446.9	7450.4	7453.9	7460.9
15°	11382.2	11084.6	10188.3	8976.9	7846.0	7359.4	7317.4	7408.4	7502.9	7548.4	7544.9
17.5°	11903.9	11483.7	10205.8	8486.8	7313.9	7114.3	7247.4	7443.4	7587.0	7650.0	7664.0
20°	12464.0	11889.9	10079.8	7793.5	6876.2	6914.7	7152.8	7404.9	7562.5	7643.0	7664.0
22.5°	13104.8	12324.0	9778.7	7065.3	6519.1	6697.7	6977.8	7222.8	7387.4	7467.9	7488.9
25°	13836.5	12810.7	9306.0	6452.6	6211.0	6452.6	6732.7	6935.8	7068.8	7142.3	7163.3
27.5°	14648.8	13318.3	8675.8	5965.9	5941.4	6200.5	6431.6	6589.1	6659.2	6715.2	6736.2
30°	15464.5	13780.5	7912.6	5598.3	5706.9	5951.9	6116.5	6186.5	6207.5	6218.0	6242.5
32.5°	16346.8	14179.6	7110.8	5293.7	5482.8	5710.4	5808.4	5839.9	5741.9	5675.3	5696.3
35°	17414.7	14606.7	6326.6	5052.1	5262.2	5458.3	5489.8	5461.8	5346.2	5209.7	5216.7
37.5°	18734.6	15138.9	5699.8	4880.6	5055.6	5185.2	5146.7	5139.7	5150.2	4989.1	4999.6
40°	20352.1	15832.1	5241.2	4747.5	4887.6	4915.6	4807.1	4866.6	4919.1	4674.0	4681.0
42.5°	22148.2	16668.9	4950.6	4656.5	4747.5	4681.0	4513.0	4579.5	4572.5	4250.4	4246.9
45°	23979.3	17579.2	4849.1	4590.0	4618.0	4485.0	4299.4	4316.9	4169.9	3879.3	3889.8
47.5°	25799.9	18556.0	4912.1	4534.0	4456.9	4306.4	4162.9	4085.8	3868.8	3651.7	3651.7
50°	27585.5	19581.9	5143.2	4421.9	4236.4	4148.8	4043.8	3907.3	3676.2	3490.6	3476.6
52.5°	29241.5	20614.7	5402.3	4236.4	3959.8	4012.3	3945.8	3788.2	3560.7	3371.6	3375.1
55°	30810.0	21647.5	5503.8	3980.8	3700.7	3893.3	3854.8	3564.2	3291.1	3137.0	3123.0
57.5°	32518.6	22890.4	5391.7	3655.2	3490.6	3756.7	3609.7	3287.6	3130.0	3014.5	3004.0
60°	34885.3	24840.6	5150.2	3252.6	3291.1	3553.7	3301.6	3168.5	2997.0	2867.4	2860.4
62.5°	38817.1	28478.2	4761.5	2853.4	3056.5	3252.6	3154.5	3021.5	2846.4	2720.4	2720.4
65°	44629.0	33533.9	4029.8	2541.8	2793.9	2958.5	2997.0	2863.9	2681.9	2548.8	2555.8
67.5°	49530.6	36705.9	3049.5	2282.7	2524.3	2720.4	2828.9	2699.4	2506.8	2377.3	2380.8
70°	49261.0	34402.2	2328.3	2027.2	2286.2	2485.8	2625.9	2524.3	2317.8	2195.2	2205.7
72.5°	43753.7	28779.3	1883.6	1768.1	2044.7	2240.7	2408.8	2331.8	2121.7	2002.6	2002.6
75°	32143.9	20429.1	1505.5	1505.5	1743.6	1985.1	2170.7	2121.7	1929.1	1845.1	1820.6
77.5°	13549.4	8570.8	1179.9	1249.9	1449.5	1705.1	1936.1	1953.6	1785.6	1890.6	1715.6
80°	3602.7	2363.3	899.8	983.8	1137.9	1407.5	1684.0	1677.0	1495.0	1397.0	1298.9
82.5°	1372.4	931.3	640.7	693.2	822.8	1078.3	1333.9	1375.9	1193.9	1032.8	1032.8
85°	528.7	399.1	395.6	416.6	479.7	714.2	1008.3	1043.3	899.8	763.2	787.8
87.5°	136.5	119.0	147.0	140.0	220.6	381.6	577.7	598.7	549.7	318.6	455.1
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)