

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: P885271

Luminaire Tested: **NAV-SB6C-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885271
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-SB6C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 35802 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

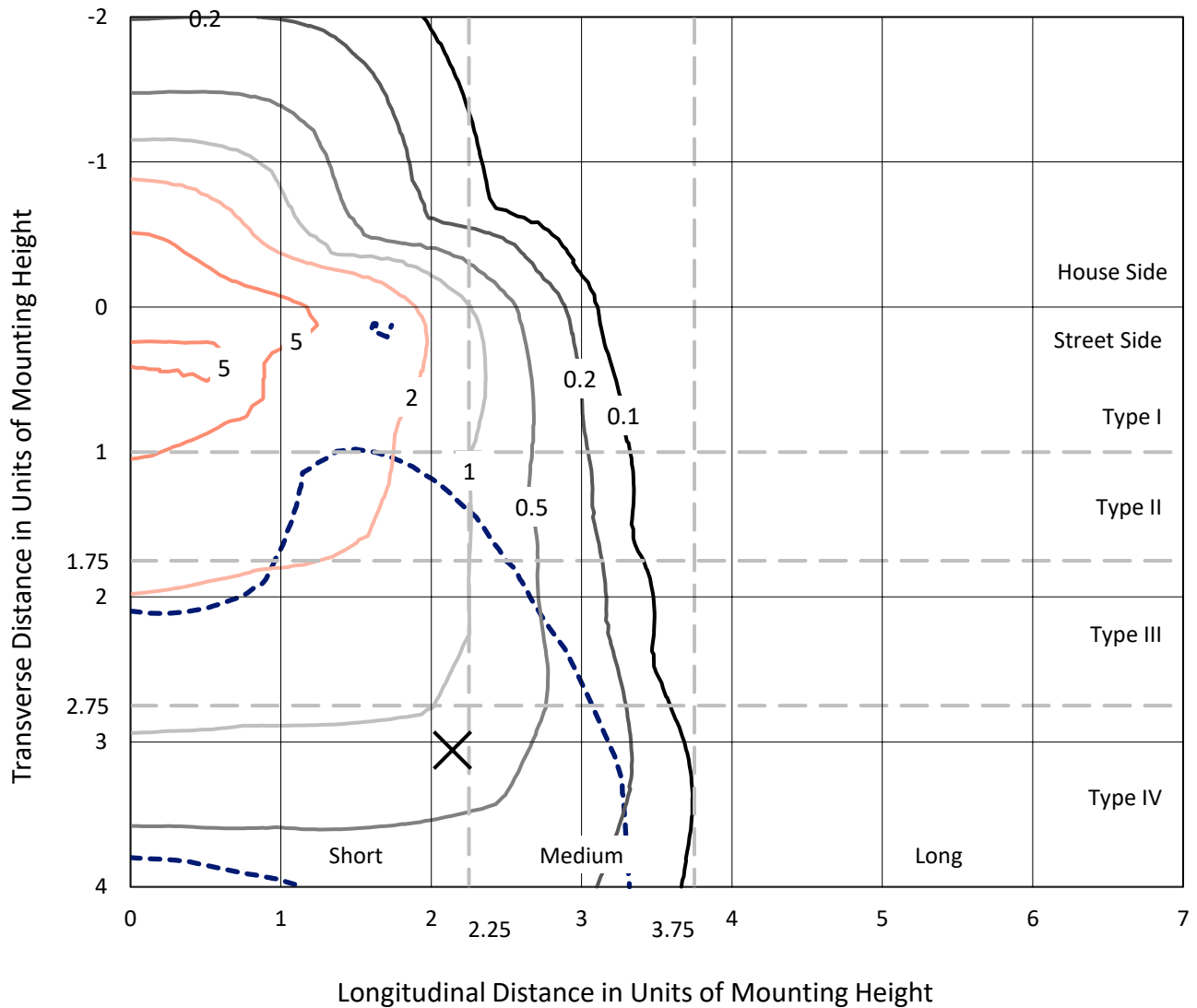
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

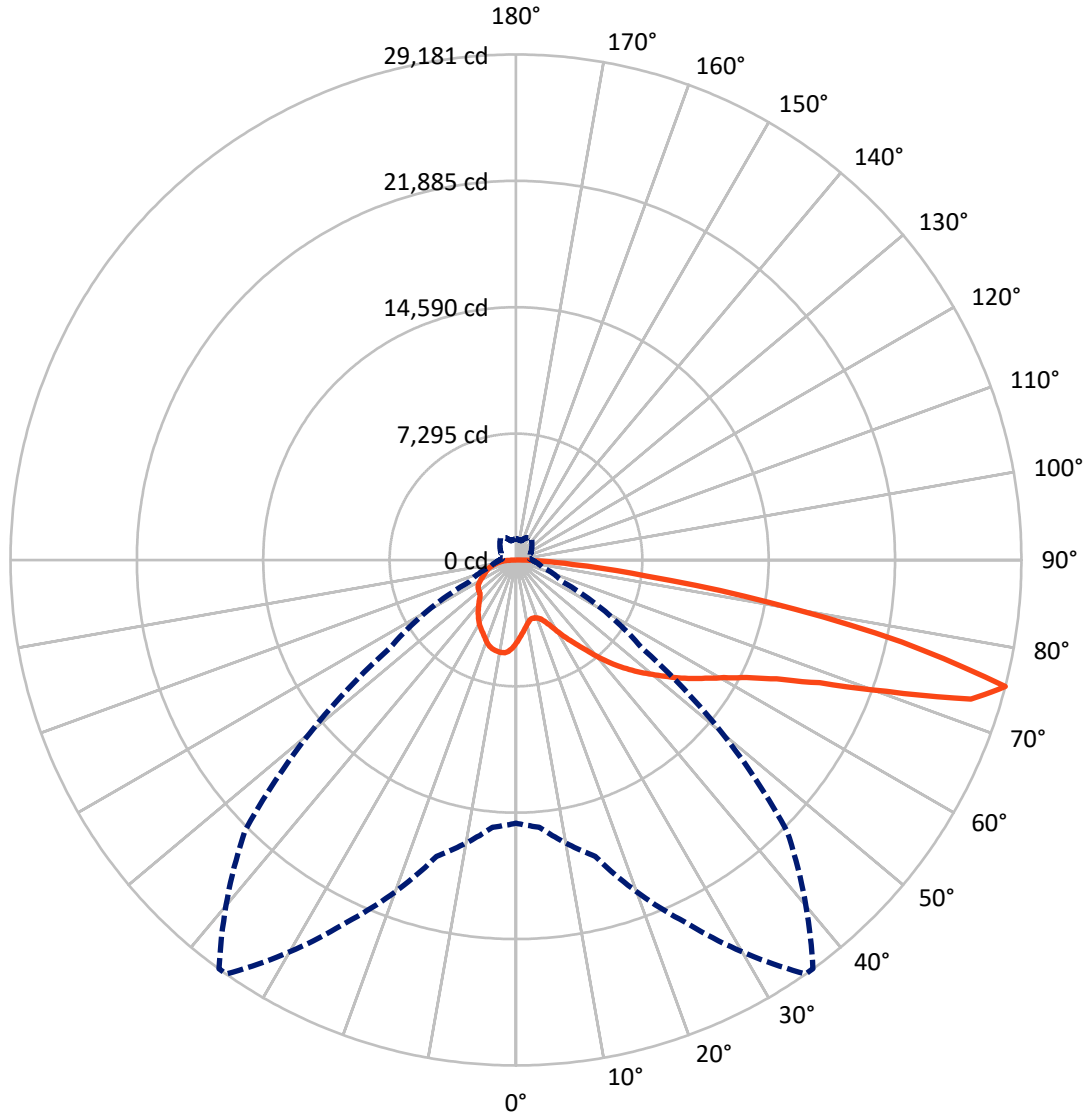
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	8520.0	0.0	8520.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27282.0	0.0	27282.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	35802.0	0.0	35802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.7	1.3
10°-20°	1302.9	3.6
20°-30°	2187.9	6.1
30°-40°	3400.3	9.5
40°-50°	5047.0	14.1
50°-60°	6967.7	19.5
60°-70°	8453.4	23.6
70°-80°	6986.1	19.5
80°-90°	1004.8	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°	35802.0	100.0
0°-180°	35802.0	100.0

Coefficient of Utilization



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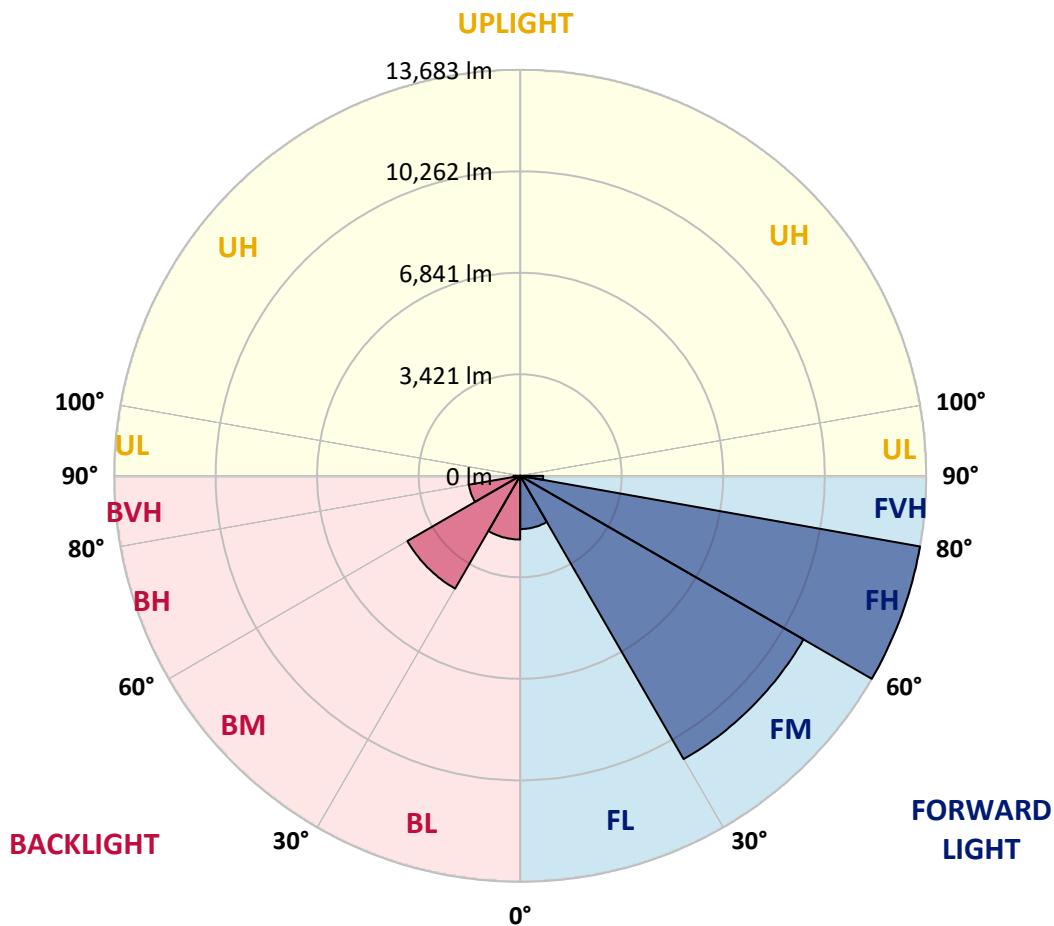
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.4	5.0			
FM (30°-60°)	11025.1	30.8			
FH (60°-80°)	13683.0	38.2			G5
FVH (80°-90°)	778.6	2.2			G5
BL (0°-30°)	2147.1	6.0	B3/2500		
BM (30°-60°)	4390.0	12.3	B3/5000		
BH (60°-80°)	1756.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	226.3	0.6			G3/500
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°	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9
2.5°	4399.3	4426.4	4438.0	4432.2	4461.2	4457.3	4498.0	4548.3	4618.0	4685.7	4784.4
5°	4060.6	4089.6	4114.7	4138.0	4194.1	4211.5	4275.4	4372.2	4499.9	4629.6	4792.1
7.5°	3745.1	3770.2	3808.9	3851.5	3946.4	3963.8	4070.2	4221.2	4399.3	4588.9	4813.4
10°	3487.7	3512.8	3553.5	3601.9	3719.9	3741.2	3876.7	4078.0	4310.2	4550.2	4836.7
12.5°	3377.3	3385.1	3408.3	3456.7	3559.3	3572.8	3721.9	3952.2	4223.1	4521.2	4871.5
15°	3371.5	3387.0	3389.0	3414.1	3499.3	3505.1	3642.5	3870.9	4168.9	4515.4	4923.8
17.5°	3429.6	3441.2	3423.8	3439.3	3510.9	3520.6	3628.9	3832.2	4151.5	4540.5	5012.8
20°	3584.4	3594.1	3541.9	3520.6	3572.8	3580.6	3687.0	3857.3	4168.9	4592.8	5134.7
22.5°	3913.5	3919.3	3791.5	3704.4	3708.3	3712.2	3805.1	3959.9	4236.7	4687.6	5289.6
25°	4426.4	4422.5	4219.3	4050.9	3954.1	3932.8	3994.7	4126.4	4350.9	4813.4	5488.9
27.5°	5026.3	4997.3	4794.1	4542.5	4331.5	4300.5	4287.0	4343.1	4513.4	4979.9	5732.8
30°	5703.7	5676.6	5457.9	5128.9	4836.7	4786.3	4658.6	4629.6	4755.4	5206.3	6071.5
32.5°	6446.9	6429.5	6168.2	5769.5	5378.6	5320.5	5105.7	5028.3	5127.0	5548.9	6543.7
35°	7070.2	7054.7	6837.9	6427.6	5949.5	5877.9	5659.2	5572.1	5622.5	5988.3	7161.1
37.5°	7633.4	7625.6	7439.8	7116.6	6623.1	6536.0	6290.2	6261.1	6251.5	6566.9	7910.1
40°	8155.9	8136.6	7943.0	7772.7	7406.9	7327.6	7110.8	7085.6	7012.1	7279.2	8757.9
42.5°	8734.6	8684.3	8403.7	8324.3	8225.6	8159.8	8030.1	8034.0	7871.4	8082.4	9655.9
45°	9206.9	9177.9	8889.5	8843.0	8949.5	8922.4	9034.6	9063.7	8748.2	8924.3	10588.8
47.5°	9714.0	9686.9	9443.0	9410.1	9698.5	9706.2	10103.0	10112.7	9603.7	9799.1	11523.6
50°	10339.1	10300.4	10058.5	10099.1	10422.3	10451.4	11177.2	11111.4	10391.4	10687.5	12450.7
52.5°	10751.4	10774.6	10722.3	10788.1	11229.4	11256.5	12233.9	12065.5	11171.4	11564.3	13360.3
55°	11055.2	11101.7	11264.3	11415.2	12081.0	12108.1	13230.7	12973.3	11817.8	12377.1	14215.8
57.5°	11446.2	11380.4	11684.2	11978.4	12890.0	12961.6	14200.3	13848.1	12390.7	13077.8	14802.2
60°	12007.5	11961.0	12197.1	12632.6	13795.8	13910.0	15226.1	14635.8	12810.7	13633.2	14916.4
62.5°	13145.5	13029.4	13066.2	13451.3	14937.7	15088.7	16383.5	15322.9	13019.7	13850.0	14304.8
65°	14846.8	14647.4	14461.6	14728.7	16546.1	16695.1	17689.9	15862.9	12942.3	13430.0	12681.0
67.5°	16989.3	16791.9	16563.5	16815.1	18915.1	19033.1	19302.1	16166.7	12332.6	11812.0	9810.7
70°	18756.3	18682.8	18955.7	19991.2	22698.8	22702.7	21369.2	15915.1	10662.3	8374.6	5676.6
72.5°	18522.2	18477.6	19915.7	23116.9	27467.8	27365.2	23325.9	14010.6	7182.4	3778.0	2127.0
75°	15195.1	15483.5	17711.2	23060.8	29180.6	29167.1	22127.9	8906.9	2970.9	1565.8	1099.3
77.5°	8148.2	8605.0	11498.4	17026.1	22780.1	23122.7	15557.1	3116.1	1275.5	1002.6	760.6
80°	2657.4	3056.1	4583.1	8668.8	14802.2	14738.4	6667.6	1223.2	872.9	710.3	526.4
82.5°	1128.4	1174.8	2047.7	4093.5	7596.6	7478.5	2123.2	702.6	613.5	485.8	325.2
85°	441.3	493.5	903.9	1892.9	3290.2	3218.6	766.4	348.4	392.9	317.4	193.5
87.5°	145.2	176.1	323.2	648.4	1023.8	987.1	187.7	120.0	170.3	145.2	69.7
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°	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9
2.5°	4811.5	4842.5	4879.2	4933.4	4979.9	5018.6	5059.2	5084.4	5094.1	5123.1	5121.2
5°	4846.3	4914.1	5005.0	5094.1	5181.2	5233.4	5279.9	5303.1	5324.4	5339.9	5343.7
7.5°	4904.4	4991.5	5134.7	5250.8	5324.4	5367.0	5397.9	5390.2	5397.9	5401.8	5407.6
10°	4954.7	5076.7	5247.0	5357.3	5413.4	5415.4	5407.6	5380.5	5367.0	5368.9	5372.8
12.5°	5014.7	5150.2	5334.1	5427.0	5442.5	5399.9	5367.0	5320.5	5303.1	5295.4	5291.5
15°	5096.0	5250.8	5428.9	5463.7	5425.0	5370.8	5314.7	5239.2	5200.5	5169.6	5179.2
17.5°	5194.7	5365.0	5502.5	5477.3	5394.1	5305.0	5214.1	5099.9	5020.5	4987.6	4989.6
20°	5332.1	5485.0	5558.6	5448.3	5322.5	5187.0	5032.1	4892.8	4819.2	4786.3	4782.5
22.5°	5498.6	5645.7	5612.8	5397.9	5219.9	5003.1	4809.6	4707.0	4670.2	4647.0	4650.9
25°	5697.9	5823.7	5651.5	5324.4	5051.5	4759.2	4610.2	4577.3	4559.9	4542.5	4542.5
27.5°	5957.3	6025.0	5680.5	5216.0	4788.3	4499.9	4445.7	4451.5	4445.7	4416.7	4422.5
30°	6299.9	6286.3	5707.6	5039.9	4486.3	4265.7	4269.6	4294.7	4298.6	4279.3	4288.9
32.5°	6750.8	6613.4	5721.2	4811.5	4198.0	4060.6	4064.4	4091.5	4110.9	4078.0	4093.5
35°	7296.6	6994.7	5699.9	4525.1	3975.4	3865.1	3836.0	3843.8	3849.6	3818.6	3839.9
37.5°	7933.4	7422.4	5605.0	4207.6	3791.5	3673.5	3611.5	3559.3	3528.3	3499.3	3518.6
40°	8632.1	7888.9	5430.8	3898.0	3586.4	3470.2	3377.3	3278.6	3174.1	3135.4	3152.8
42.5°	9363.7	8368.8	5219.9	3601.9	3350.2	3255.4	3156.7	3013.5	2856.7	2777.4	2787.0
45°	10122.3	8860.4	5012.8	3309.6	3108.3	3067.7	2953.5	2781.2	2610.9	2510.3	2502.5
47.5°	10865.6	9324.9	4708.9	3015.4	2881.9	2926.4	2837.4	2678.6	2489.0	2330.3	2312.9
50°	11575.9	9760.4	4211.5	2717.4	2698.0	2883.8	2798.6	2570.3	2353.5	2150.3	2132.9
52.5°	12280.4	10112.7	3574.8	2446.4	2599.3	2872.2	2748.3	2496.7	2231.6	2018.7	1995.4
55°	12878.4	10294.6	2961.2	2214.1	2456.1	2773.5	2688.3	2409.6	2059.3	1832.9	1813.5
57.5°	13219.1	10147.5	2450.3	1985.8	2258.7	2610.9	2585.7	2223.8	1854.2	1680.0	1656.7
60°	13072.0	9551.4	2032.2	1786.4	2070.9	2434.8	2407.7	2040.0	1697.4	1532.9	1509.6
62.5°	12261.0	8415.3	1701.3	1612.2	1900.6	2254.8	2229.6	1898.7	1577.4	1418.7	1393.5
65°	10627.5	6845.6	1443.8	1467.1	1728.3	2038.0	2074.8	1780.6	1482.5	1327.7	1302.6
67.5°	8105.6	4958.6	1242.6	1341.3	1560.0	1825.1	1931.6	1695.4	1403.2	1256.1	1232.9
70°	4619.9	2816.1	1072.2	1219.3	1410.9	1627.7	1821.2	1627.7	1318.0	1196.1	1180.6
72.5°	1751.6	1292.9	927.1	1097.4	1267.7	1461.3	1699.3	1521.3	1219.3	1128.4	1112.9
75°	934.8	787.7	780.0	954.2	1103.2	1298.7	1546.4	1416.7	1145.8	1192.2	1230.9
77.5°	636.8	557.4	652.2	816.8	923.2	1118.7	1383.8	1258.0	992.9	989.0	911.6
80°	441.3	394.8	530.3	658.0	714.2	940.6	1207.7	1080.0	809.0	754.8	721.9
82.5°	265.2	257.4	396.8	491.6	505.1	725.8	1000.6	905.8	661.9	576.8	580.6
85°	145.2	152.9	253.5	288.4	294.2	507.1	783.9	700.6	509.0	427.7	431.6
87.5°	40.6	52.3	92.9	114.2	141.3	263.2	466.4	416.1	255.5	178.1	178.1
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)