

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: P885289

Luminaire Tested: **NAV-SB6C-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885289
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-SB6C-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44776 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

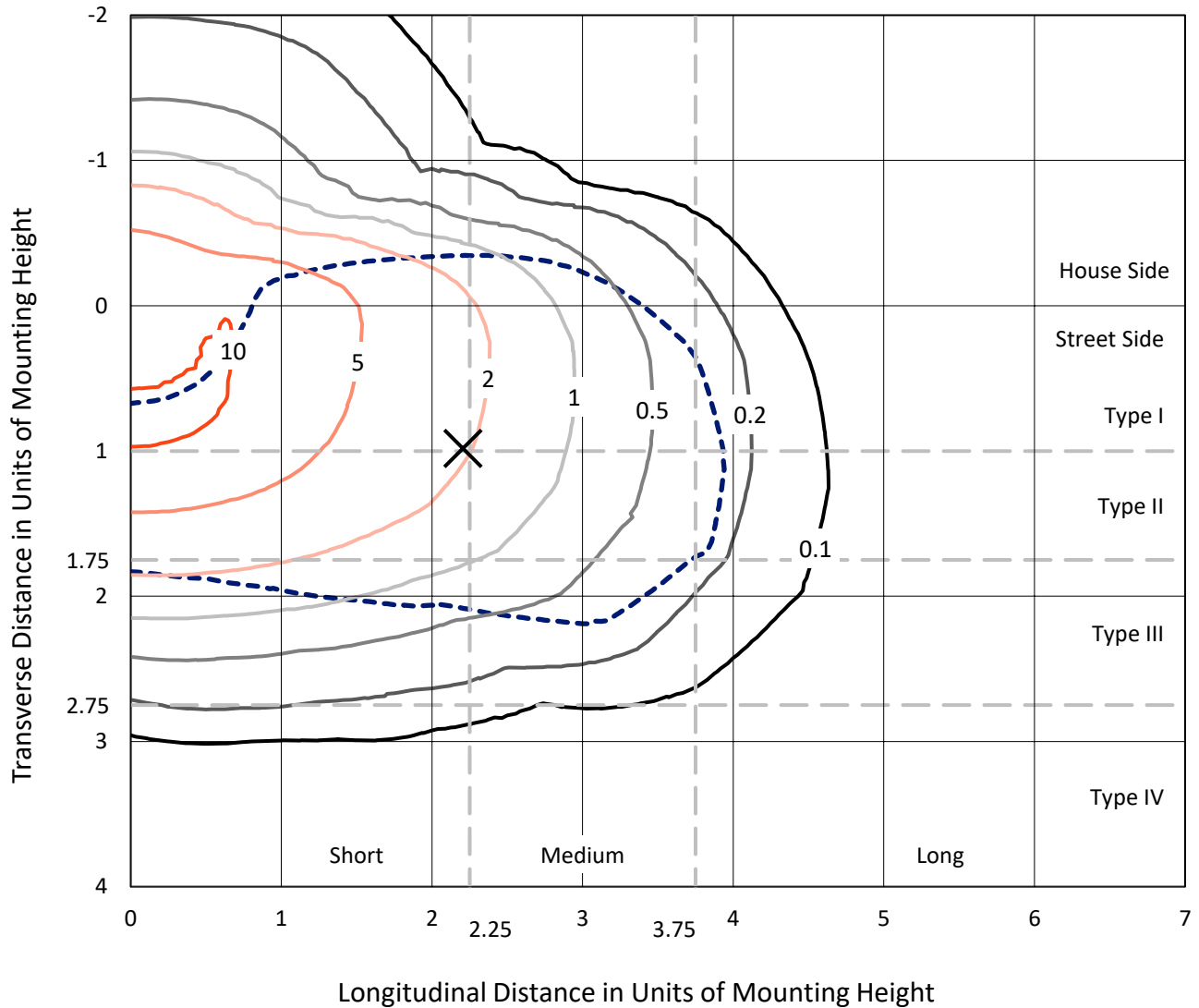
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

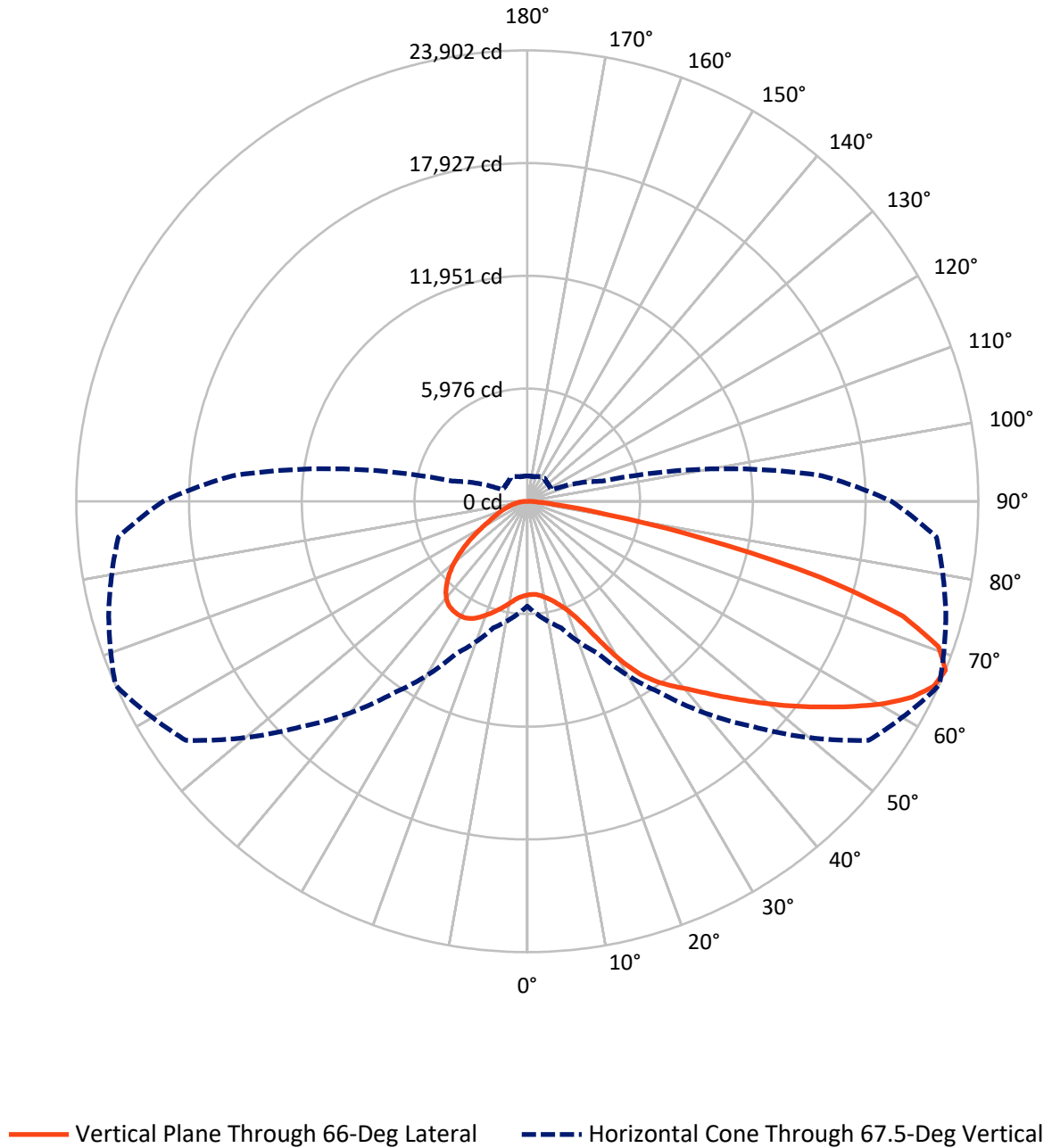
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	11133.4	0.0	11133.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	33642.6	0.0	33642.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	44776.0	0.0	44776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.4	1.1
10°-20°	1626.8	3.6
20°-30°	3135.5	7.0
30°-40°	5497.7	12.3
40°-50°	8173.3	18.3
50°-60°	10360.4	23.1
60°-70°	10137.4	22.6
70°-80°	4835.7	10.8
80°-90°	516.8	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°	44776.0	100.0
0°-180°	44776.0	100.0

Coefficient of Utilization

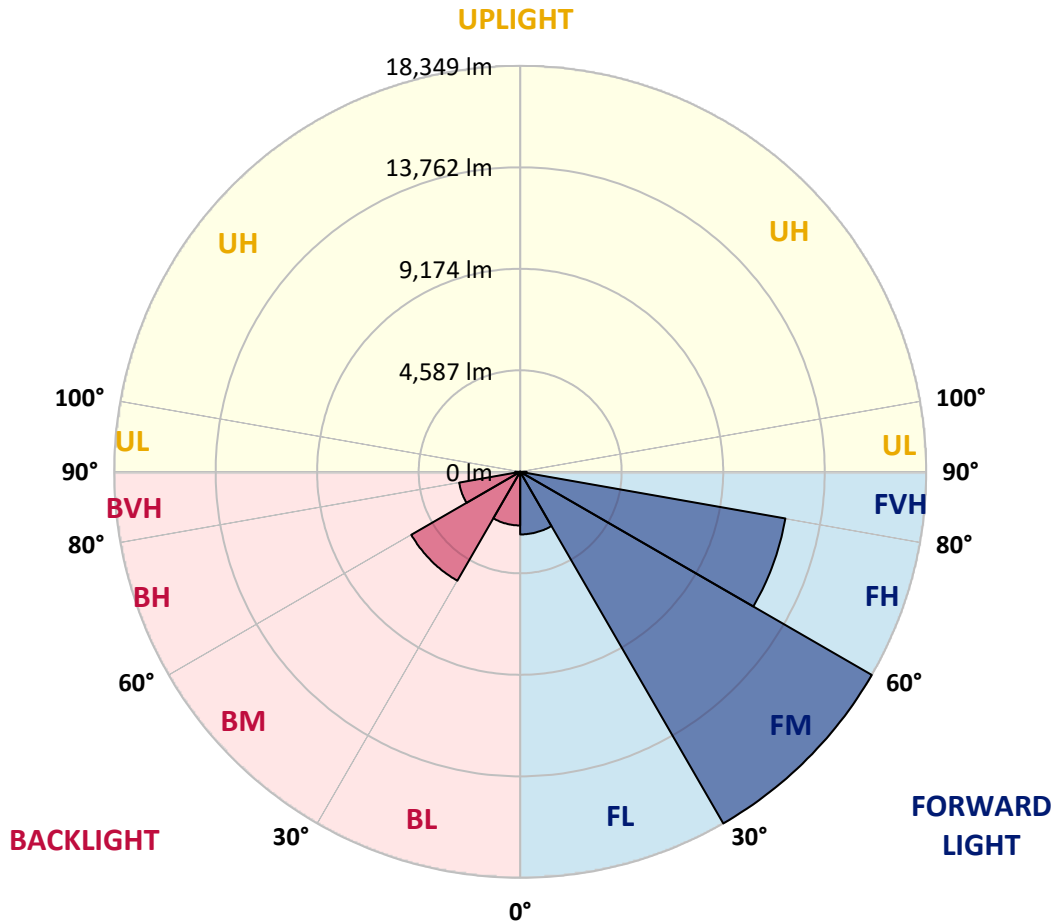


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2829.4	6.3			
FM (30°-60°)	18348.8	41.0			
FH (60°-80°)	12171.3	27.2			G5
FVH (80°-90°)	293.0	0.7			G3/500
BL (0°-30°)	2425.3	5.4	B3/2500		
BM (30°-60°)	5682.6	12.7	B4/8500		
BH (60°-80°)	2801.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	223.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3
2.5°	4914.5	4942.7	4935.7	4923.9	4921.6	4926.3	4933.3	4940.4	4938.0	4949.8	4968.6
5°	4900.4	4928.6	4926.3	4926.3	4935.7	4954.5	4966.3	4978.0	4966.3	4980.4	5006.2
7.5°	4909.8	4931.0	4940.4	4949.8	4973.3	5008.6	5036.8	5062.7	5048.6	5065.1	5098.0
10°	5029.8	5046.2	5055.6	5055.6	5072.1	5112.1	5140.3	5187.4	5175.6	5201.5	5243.9
12.5°	5248.6	5265.0	5265.0	5255.6	5267.4	5293.3	5302.7	5354.4	5333.2	5375.6	5417.9
15°	5516.7	5549.7	5523.8	5507.3	5512.0	5537.9	5535.6	5575.6	5554.4	5589.7	5627.3
17.5°	5813.2	5855.5	5813.2	5810.8	5801.4	5829.6	5832.0	5867.3	5829.6	5855.5	5881.4
20°	6163.7	6222.5	6187.2	6199.0	6177.8	6189.6	6201.3	6253.1	6194.3	6213.1	6206.0
22.5°	6657.7	6728.3	6690.7	6735.4	6721.3	6711.8	6709.5	6801.2	6709.5	6716.6	6648.3
25°	7377.6	7462.3	7396.4	7457.6	7457.6	7488.2	7523.5	7641.1	7488.2	7443.5	7267.1
27.5°	8441.0	8525.7	8396.3	8433.9	8422.2	8497.4	8459.8	8751.5	8586.8	8513.9	8158.7
30°	9720.8	9871.3	9626.7	9617.3	9605.5	9725.5	9779.6	9972.5	9805.5	9732.5	9304.4
32.5°	11104.1	11261.7	10970.0	10885.3	10840.6	10913.5	10868.8	11024.1	10908.8	10795.9	10266.6
35°	12567.4	12722.6	12445.0	12280.4	12101.6	11948.6	11788.7	11828.7	11720.4	11548.7	11000.6
37.5°	13950.7	14235.3	13941.3	13764.8	13435.5	13136.7	12689.7	12503.8	12402.7	12245.1	11692.2
40°	15359.9	15522.2	15298.7	15148.1	14790.5	14322.4	13607.2	13214.3	13077.9	12925.0	12456.8
42.5°	16397.3	16552.6	16432.6	16329.1	16049.2	15505.7	14581.2	14089.5	13891.9	13720.1	13322.5
45°	17220.7	17336.0	17260.7	17298.4	17178.4	16651.4	15590.4	15028.1	14823.5	14614.1	14301.2
47.5°	17552.4	17674.8	17794.7	18018.2	18222.9	17834.7	16674.9	16044.4	15828.0	15613.9	15305.7
50°	17514.8	17639.5	17987.7	18462.9	19098.1	18968.7	17818.3	17126.6	16926.7	16682.0	16397.3
52.5°	17213.7	17354.8	17801.8	18592.3	19603.9	19817.9	18982.8	18244.1	18055.9	17764.2	17479.5
55°	16423.2	16507.9	17178.4	18298.2	19723.8	20410.8	20123.8	19434.5	19246.3	18839.3	18528.7
57.5°	14957.6	15079.9	16056.2	17505.4	19422.7	20813.1	21126.0	20686.0	20504.9	19919.1	19594.5
60°	13044.9	13240.2	14357.7	16173.8	18655.8	20810.7	22036.4	21916.4	21765.9	20982.5	20643.7
62.5°	10880.6	11106.4	12181.5	14291.8	17314.8	20220.2	22605.7	22946.9	22869.2	21963.5	21530.6
65°	8356.3	8511.6	9582.0	11856.9	15228.1	18952.2	22671.6	23650.3	23664.4	22709.2	21994.1
67.5°	5563.8	6010.8	6940.0	8897.4	12433.3	16879.6	22092.9	23765.5	23902.0	22965.7	21761.2
70°	2714.9	3303.0	4213.4	5782.6	8897.4	13701.3	20580.2	22819.8	23123.3	22217.6	20373.2
72.5°	1126.9	1317.4	1813.8	2853.7	5107.4	9245.6	17540.7	20255.5	20817.8	19686.2	17129.0
75°	759.9	823.4	1037.5	1463.3	2326.7	4559.3	12649.7	15103.4	16009.2	14868.2	12153.3
77.5°	585.8	625.8	755.2	1023.4	1383.3	1724.4	6770.7	9102.0	9570.2	8859.7	6323.7
80°	461.1	491.7	564.6	745.8	981.0	922.2	2307.9	4124.0	4394.6	3686.5	2032.6
82.5°	399.9	411.7	404.6	505.8	651.7	538.7	757.5	1522.1	1679.7	1218.6	663.4
85°	289.4	322.3	336.4	312.9	345.8	272.9	310.5	538.7	592.8	529.3	374.1
87.5°	117.6	174.1	214.1	202.3	127.0	77.6	96.5	157.6	181.1	197.6	122.3
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°	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3	4966.3
2.5°	4971.0	4987.4	4999.2	5013.3	5022.7	5036.8	5065.1	5081.5	5083.9	5095.6	5093.3
5°	5015.7	5039.2	5065.1	5102.7	5145.0	5180.3	5234.4	5272.1	5286.2	5298.0	5295.6
7.5°	5112.1	5145.0	5192.1	5258.0	5319.1	5366.2	5432.1	5476.8	5521.5	5537.9	5540.3
10°	5255.6	5302.7	5370.9	5460.3	5526.2	5587.3	5655.5	5693.2	5737.9	5756.7	5766.1
12.5°	5434.4	5483.8	5573.2	5697.9	5759.1	5801.4	5824.9	5815.5	5824.9	5841.4	5846.1
15°	5639.1	5693.2	5794.4	5928.4	5970.8	5933.2	5881.4	5834.3	5827.3	5832.0	5848.5
17.5°	5881.4	5921.4	6039.0	6151.9	6121.4	5966.1	5853.2	5777.9	5740.2	5728.5	5744.9
20°	6220.2	6220.2	6316.6	6387.2	6182.5	5919.0	5742.6	5620.3	5542.6	5509.7	5502.6
22.5°	6631.9	6594.2	6655.4	6606.0	6170.8	5787.3	5542.6	5330.9	5213.3	5166.2	5159.2
25°	7154.1	7109.4	7093.0	6787.1	6086.1	5577.9	5180.3	4923.9	4820.4	4794.5	4799.2
27.5°	7942.2	7829.3	7615.2	6885.9	5930.8	5248.6	4756.9	4519.3	4460.5	4462.8	4469.9
30°	8991.5	8765.6	8241.0	6902.4	5676.7	4782.8	4324.0	4154.6	4126.4	4138.1	4178.1
32.5°	9963.1	9749.0	8880.9	6827.1	5286.2	4326.4	3935.8	3822.9	3780.6	3794.7	3813.5
35°	10725.3	10666.5	9473.8	6721.3	4806.3	3898.2	3587.7	3491.2	3408.9	3390.0	3404.2
37.5°	11445.2	11421.7	9918.4	6573.0	4331.1	3594.7	3307.7	3180.7	3060.7	2994.8	2997.2
40°	12235.7	12212.1	10210.1	6344.8	3910.0	3331.2	3056.0	2888.9	2740.7	2620.7	2632.5
42.5°	13124.9	12986.1	10348.9	6017.8	3552.4	3107.7	2851.3	2625.5	2430.2	2319.6	2326.7
45°	14096.5	13783.6	10346.6	5601.4	3251.2	2903.1	2632.5	2312.6	2131.4	2027.9	2023.2
47.5°	15126.9	14545.9	10219.5	5140.3	2959.5	2677.2	2293.7	2049.1	1929.1	1865.6	1851.5
50°	16190.3	15258.7	10003.1	4611.0	2660.7	2420.8	2082.0	1915.0	1823.2	1764.4	1743.2
52.5°	17190.1	15905.6	9741.9	4011.1	2357.3	2171.4	1987.9	1858.5	1762.1	1696.2	1668.0
55°	18119.4	16463.2	9372.6	3397.1	2110.2	2004.4	1943.2	1835.0	1724.4	1646.8	1616.2
57.5°	18945.2	16825.5	8735.0	2820.7	1933.8	1889.1	1896.2	1795.0	1668.0	1602.1	1559.7
60°	19632.1	17091.3	7791.7	2286.7	1790.3	1776.2	1823.2	1719.7	1571.5	1496.2	1463.3
62.5°	20043.8	17086.6	6634.2	1872.6	1668.0	1672.7	1726.8	1625.6	1475.1	1404.5	1383.3
65°	20008.5	16667.9	5363.8	1602.1	1550.3	1555.0	1625.6	1522.1	1395.1	1352.7	1350.4
67.5°	19300.4	15646.9	4114.6	1425.7	1420.9	1442.1	1524.5	1451.5	1345.7	1341.0	1348.0
70°	17383.1	13527.2	2964.2	1284.5	1286.8	1317.4	1425.7	1406.8	1319.8	1329.2	1326.8
72.5°	13938.9	10313.6	1990.3	1136.3	1138.6	1188.0	1331.5	1371.5	1293.9	1418.6	1437.4
75°	9283.2	6431.9	1279.8	978.7	981.0	1044.5	1249.2	1303.3	1223.3	1413.9	1425.7
77.5°	4460.5	2891.3	926.9	823.4	823.4	882.2	1079.8	1166.9	1042.2	1098.6	1006.9
80°	1540.9	1086.9	729.3	663.4	649.3	689.3	910.4	1011.6	898.7	828.1	776.3
82.5°	607.0	564.6	585.8	515.2	468.2	494.0	708.1	835.2	661.1	597.5	595.2
85°	348.2	367.0	414.1	341.1	270.5	303.5	519.9	599.9	498.7	439.9	449.3
87.5°	94.1	129.4	190.6	176.4	122.3	129.4	247.0	331.7	287.0	221.1	228.2
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)