

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: P885359

Luminaire Tested: **NAV-SB6C-835-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885359
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-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38380 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

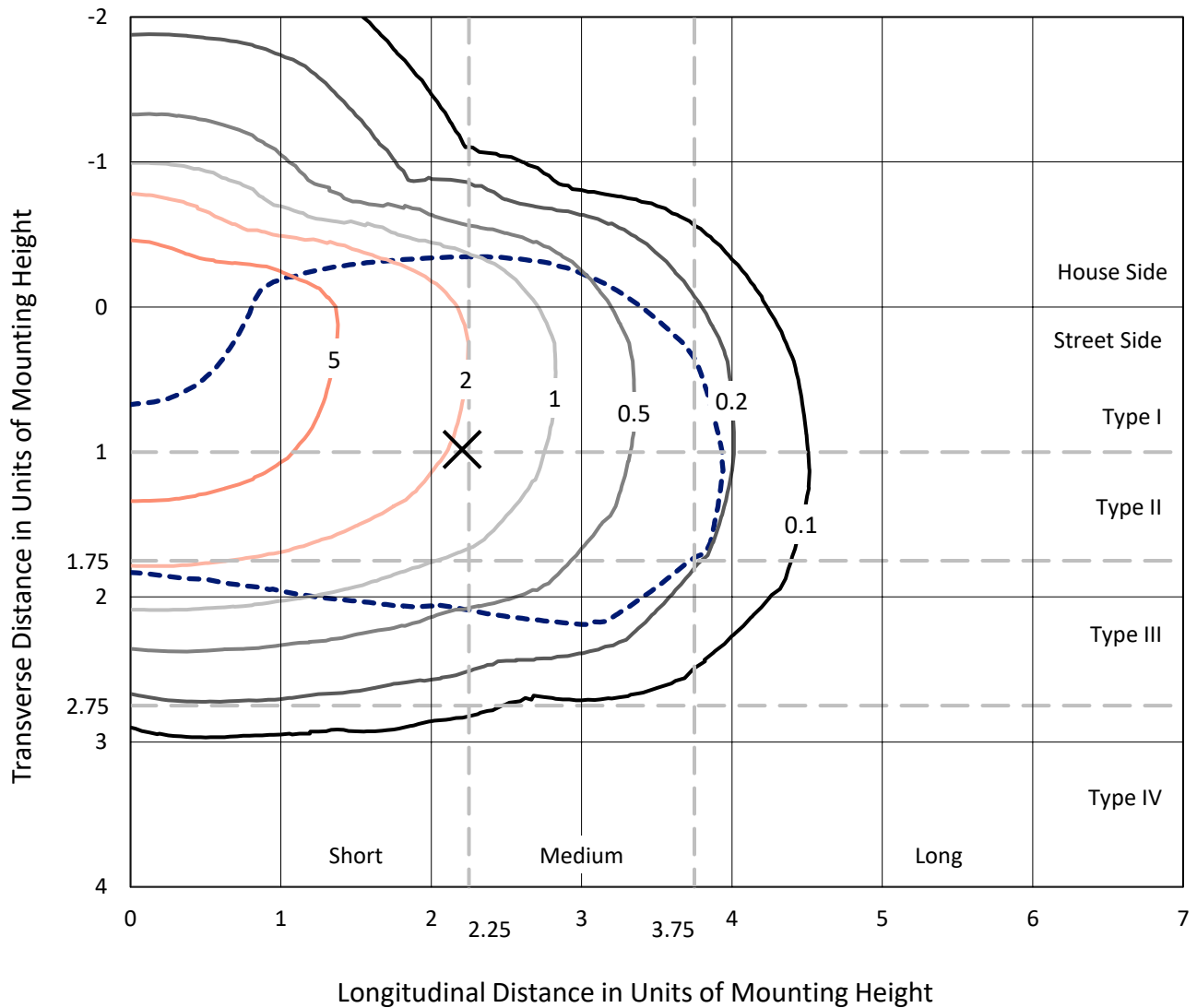
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

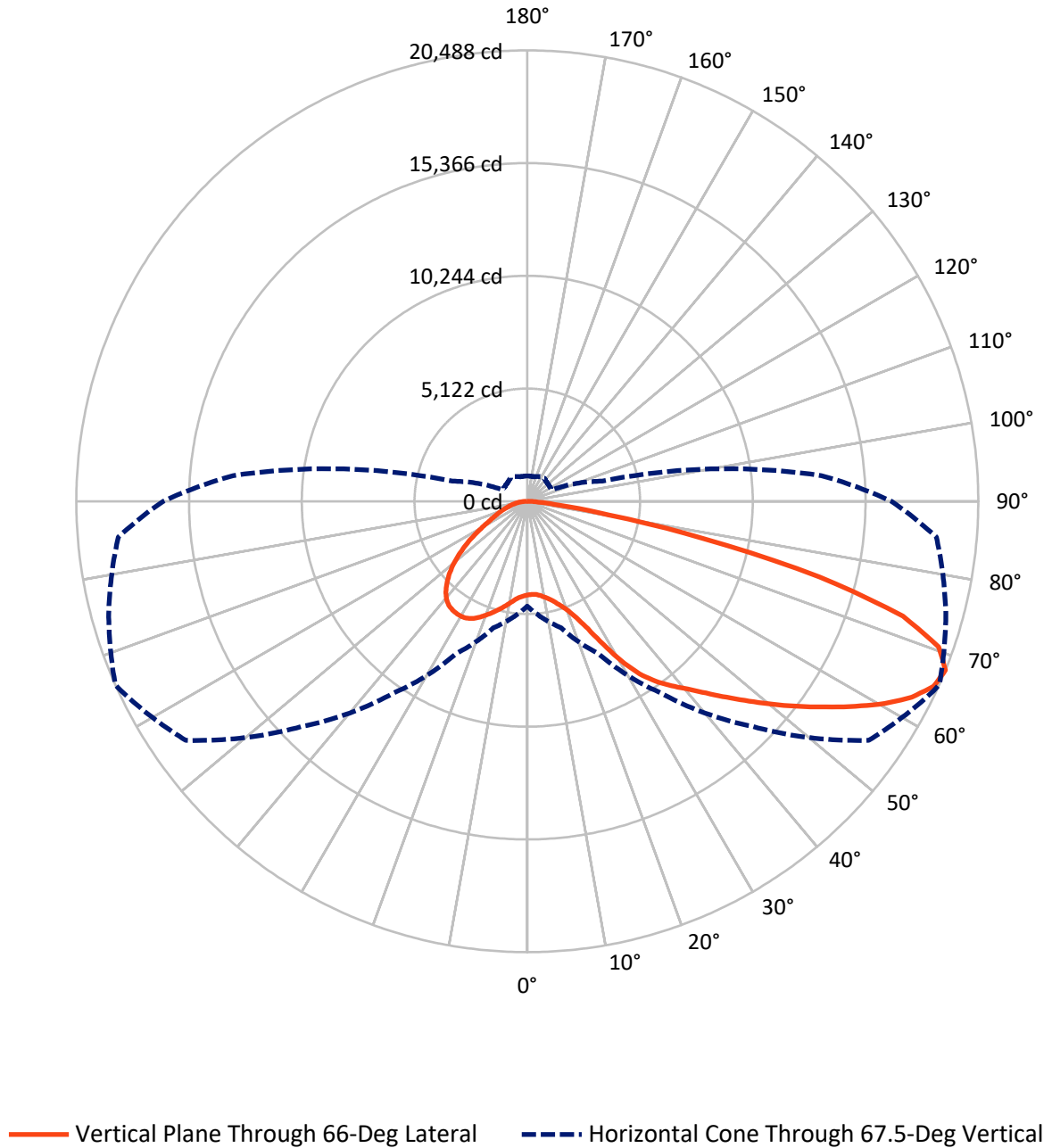
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	9543.1	0.0	9543.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28836.9	0.0	28836.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	38380.0	0.0	38380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.0	1.1
10°-20°	1394.4	3.6
20°-30°	2687.6	7.0
30°-40°	4712.4	12.3
40°-50°	7005.8	18.3
50°-60°	8880.5	23.1
60°-70°	8689.4	22.6
70°-80°	4144.9	10.8
80°-90°	443.0	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°	38380.0	100.0
0°-180°	38380.0	100.0

Coefficient of Utilization



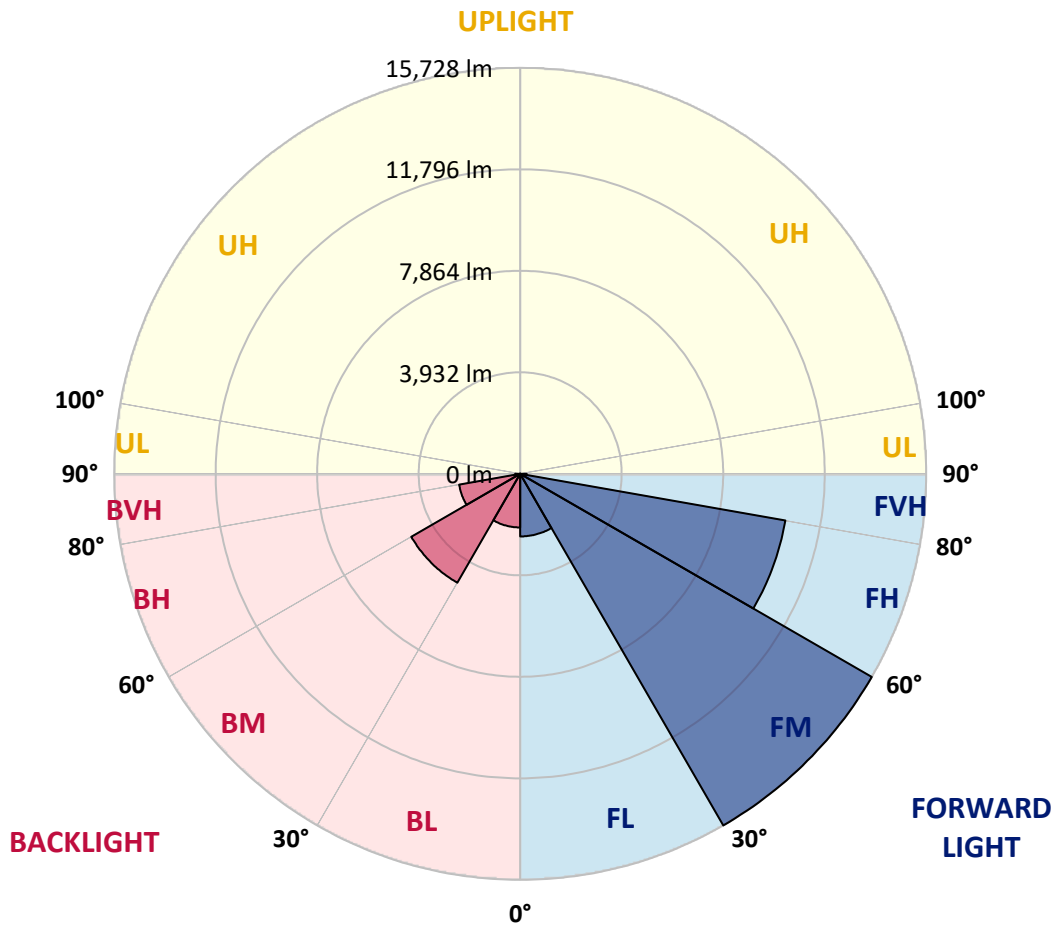
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.2	6.3			
FM (30°-60°)	15727.8	41.0			
FH (60°-80°)	10432.7	27.2			G4/12000
FVH (80°-90°)	251.2	0.7			G3/500
BL (0°-30°)	2078.8	5.4	B3/2500		
BM (30°-60°)	4870.9	12.7	B3/5000		
BH (60°-80°)	2401.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	191.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8
2.5°	4212.5	4236.7	4230.6	4220.6	4218.5	4222.6	4228.6	4234.7	4232.7	4242.7	4258.9
5°	4200.4	4224.6	4222.6	4222.6	4230.6	4246.8	4256.8	4266.9	4256.8	4268.9	4291.1
7.5°	4208.5	4226.6	4234.7	4242.7	4262.9	4293.1	4317.3	4339.5	4327.4	4341.5	4369.8
10°	4311.3	4325.4	4333.5	4333.5	4347.6	4381.9	4406.1	4446.4	4436.3	4458.5	4494.8
12.5°	4498.8	4512.9	4512.9	4504.9	4515.0	4537.1	4545.2	4589.6	4571.4	4607.7	4644.0
15°	4728.7	4756.9	4734.8	4720.6	4724.7	4746.9	4744.8	4779.1	4761.0	4791.2	4823.5
17.5°	4982.8	5019.1	4982.8	4980.8	4972.7	4996.9	4998.9	5029.2	4996.9	5019.1	5041.3
20°	5283.3	5333.7	5303.4	5313.5	5295.4	5305.4	5315.5	5359.9	5309.5	5325.6	5319.5
22.5°	5706.7	5767.2	5734.9	5773.3	5761.2	5753.1	5751.1	5829.7	5751.1	5757.1	5698.7
25°	6323.8	6396.4	6339.9	6392.3	6392.3	6418.5	6448.8	6549.6	6418.5	6380.2	6229.0
27.5°	7235.2	7307.8	7196.9	7229.2	7219.1	7283.6	7251.4	7501.4	7360.3	7297.7	6993.3
30°	8332.2	8461.3	8251.6	8243.5	8233.4	8336.2	8382.6	8548.0	8404.8	8342.3	7975.3
32.5°	9517.9	9653.0	9403.0	9330.4	9292.1	9354.6	9316.3	9449.4	9350.5	9253.8	8800.0
35°	10772.2	10905.3	10667.3	10526.2	10372.9	10241.8	10104.7	10139.0	10046.2	9899.0	9429.2
37.5°	11957.9	12201.9	11949.8	11798.6	11516.3	11260.2	10877.0	10717.7	10631.0	10495.9	10022.0
40°	13165.8	13304.9	13113.4	12984.3	12677.8	12276.5	11663.5	11326.7	11209.8	11078.7	10677.4
42.5°	14055.1	14188.2	14085.3	13996.6	13756.6	13290.8	12498.3	12076.9	11907.5	11760.3	11419.5
45°	14760.8	14859.7	14795.1	14827.4	14724.5	14272.8	13363.4	12881.5	12706.0	12526.6	12258.4
47.5°	15045.2	15150.0	15252.9	15444.4	15619.9	15287.2	14293.0	13752.6	13567.1	13383.6	13119.4
50°	15012.9	15119.8	15418.2	15825.6	16370.0	16259.1	15273.0	14680.2	14508.8	14299.1	14055.1
52.5°	14754.8	14875.8	15258.9	15936.5	16803.6	16987.1	16271.2	15638.0	15476.7	15226.7	14982.7
55°	14077.2	14149.8	14724.5	15684.4	16906.4	17495.2	17249.2	16658.4	16497.1	16148.2	15882.0
57.5°	12821.0	12925.8	13762.7	15004.8	16648.3	17840.0	18108.2	17731.2	17575.9	17073.8	16795.5
60°	11181.5	11348.9	12306.8	13863.5	15990.9	17838.0	18888.6	18785.8	18656.7	17985.2	17694.9
62.5°	9326.4	9519.9	10441.5	12250.3	14841.5	17331.9	19376.6	19669.0	19602.5	18826.1	18455.1
65°	7162.6	7295.7	8213.2	10163.2	13052.9	16245.0	19433.1	20272.0	20284.1	19465.4	18852.3
67.5°	4769.0	5152.2	5948.7	7626.4	10657.2	14468.4	18937.0	20370.8	20487.7	19685.2	18652.7
70°	2327.1	2831.2	3611.6	4956.6	7626.4	11744.1	17640.4	19560.1	19820.3	19043.9	17463.0
72.5°	965.9	1129.2	1554.7	2446.0	4377.8	7924.9	15035.1	17362.1	17844.1	16874.1	14682.2
75°	651.3	705.8	889.3	1254.3	1994.3	3908.0	10842.8	12946.0	13722.3	12744.3	10417.3
77.5°	502.1	536.4	647.3	877.2	1185.7	1478.1	5803.5	7801.9	8203.2	7594.2	5420.4
80°	395.2	421.5	484.0	639.2	840.9	790.5	1978.2	3534.9	3766.8	3159.9	1742.3
82.5°	342.8	352.9	346.8	433.5	558.6	461.8	649.3	1304.7	1439.8	1044.6	568.7
85°	248.0	276.3	288.4	268.2	296.4	233.9	266.2	461.8	508.2	453.7	320.6
87.5°	100.8	149.2	183.5	173.4	108.9	66.5	82.7	135.1	155.3	169.4	104.9
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°	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8	4256.8
2.5°	4260.9	4275.0	4285.1	4297.2	4305.2	4317.3	4341.5	4355.7	4357.7	4367.8	4365.7
5°	4299.2	4319.4	4341.5	4373.8	4410.1	4440.4	4486.7	4519.0	4531.1	4541.2	4539.2
7.5°	4381.9	4410.1	4450.4	4506.9	4559.3	4599.7	4656.1	4694.4	4732.7	4746.9	4748.9
10°	4504.9	4545.2	4603.7	4680.3	4736.8	4789.2	4847.7	4880.0	4918.3	4934.4	4942.5
12.5°	4658.1	4700.5	4777.1	4884.0	4936.4	4972.7	4992.9	4984.8	4992.9	5007.0	5011.0
15°	4833.6	4880.0	4966.7	5081.6	5117.9	5085.6	5041.3	5000.9	4994.9	4998.9	5013.0
17.5°	5041.3	5075.6	5176.4	5273.2	5247.0	5113.9	5017.1	4952.5	4920.3	4910.2	4924.3
20°	5331.6	5331.6	5414.3	5474.8	5299.4	5073.5	4922.3	4817.4	4750.9	4722.7	4716.6
22.5°	5684.5	5652.3	5704.7	5662.4	5289.3	4960.6	4750.9	4569.4	4468.6	4428.3	4422.2
25°	6132.2	6093.9	6079.8	5817.6	5216.7	4781.1	4440.4	4220.6	4131.8	4109.6	4113.7
27.5°	6807.7	6710.9	6527.4	5902.3	5083.6	4498.8	4077.4	3873.7	3823.3	3825.3	3831.4
30°	7707.1	7513.5	7063.8	5916.4	4865.8	4099.6	3706.3	3561.2	3537.0	3547.0	3581.3
32.5°	8539.9	8356.4	7612.3	5851.9	4531.1	3708.4	3373.6	3276.8	3240.5	3252.6	3268.8
35°	9193.3	9142.8	8120.5	5761.2	4119.7	3341.4	3075.2	2992.5	2921.9	2905.8	2917.9
37.5°	9810.3	9790.1	8501.6	5634.1	3712.4	3081.2	2835.2	2726.3	2623.5	2567.0	2569.0
40°	10487.9	10467.7	8751.6	5438.5	3351.4	2855.4	2619.4	2476.3	2349.2	2246.4	2256.5
42.5°	11250.1	11131.1	8870.6	5158.2	3044.9	2663.8	2444.0	2250.4	2083.1	1988.3	1994.3
45°	12082.9	11814.7	8868.6	4801.3	2786.8	2488.4	2256.5	1982.2	1827.0	1738.2	1734.2
47.5°	12966.1	12468.1	8759.7	4406.1	2536.8	2294.8	1966.1	1756.4	1653.5	1599.1	1587.0
50°	13877.6	13079.1	8574.2	3952.4	2280.7	2075.0	1784.6	1641.4	1562.8	1512.4	1494.2
52.5°	14734.6	13633.6	8350.4	3438.1	2020.5	1861.2	1703.9	1593.0	1510.4	1453.9	1429.7
55°	15531.1	14111.5	8033.8	2911.8	1808.8	1718.1	1665.6	1572.9	1478.1	1411.6	1385.3
57.5°	16238.9	14422.1	7487.3	2417.8	1657.6	1619.3	1625.3	1538.6	1429.7	1373.2	1336.9
60°	16827.8	14649.9	6678.7	1960.0	1534.6	1522.5	1562.8	1474.1	1347.0	1282.5	1254.3
62.5°	17180.7	14645.9	5686.6	1605.1	1429.7	1433.7	1480.1	1393.4	1264.4	1203.9	1185.7
65°	17150.4	14287.0	4597.6	1373.2	1328.9	1332.9	1393.4	1304.7	1195.8	1159.5	1157.5
67.5°	16543.4	13411.8	3526.9	1222.0	1218.0	1236.1	1306.7	1244.2	1153.4	1149.4	1155.5
70°	14900.0	11594.9	2540.8	1101.0	1103.0	1129.2	1222.0	1205.9	1131.3	1139.3	1137.3
72.5°	11947.8	8840.4	1706.0	974.0	976.0	1018.3	1141.3	1175.6	1109.1	1216.0	1232.1
75°	7957.1	5513.1	1097.0	838.9	840.9	895.3	1070.8	1117.1	1048.6	1211.9	1222.0
77.5°	3823.3	2478.3	794.5	705.8	705.8	756.2	925.6	1000.2	893.3	941.7	863.1
80°	1320.8	931.6	625.1	568.7	556.6	590.8	780.4	867.1	770.3	709.8	665.4
82.5°	520.3	484.0	502.1	441.6	401.3	423.5	607.0	715.9	566.6	512.2	510.2
85°	298.4	314.6	354.9	292.4	231.9	260.1	445.6	514.2	427.5	377.1	385.2
87.5°	80.7	110.9	163.3	151.2	104.9	110.9	211.7	284.3	246.0	189.6	195.6
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)