

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: P885344

Luminaire Tested: **NAV-SB6C-830-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39427 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

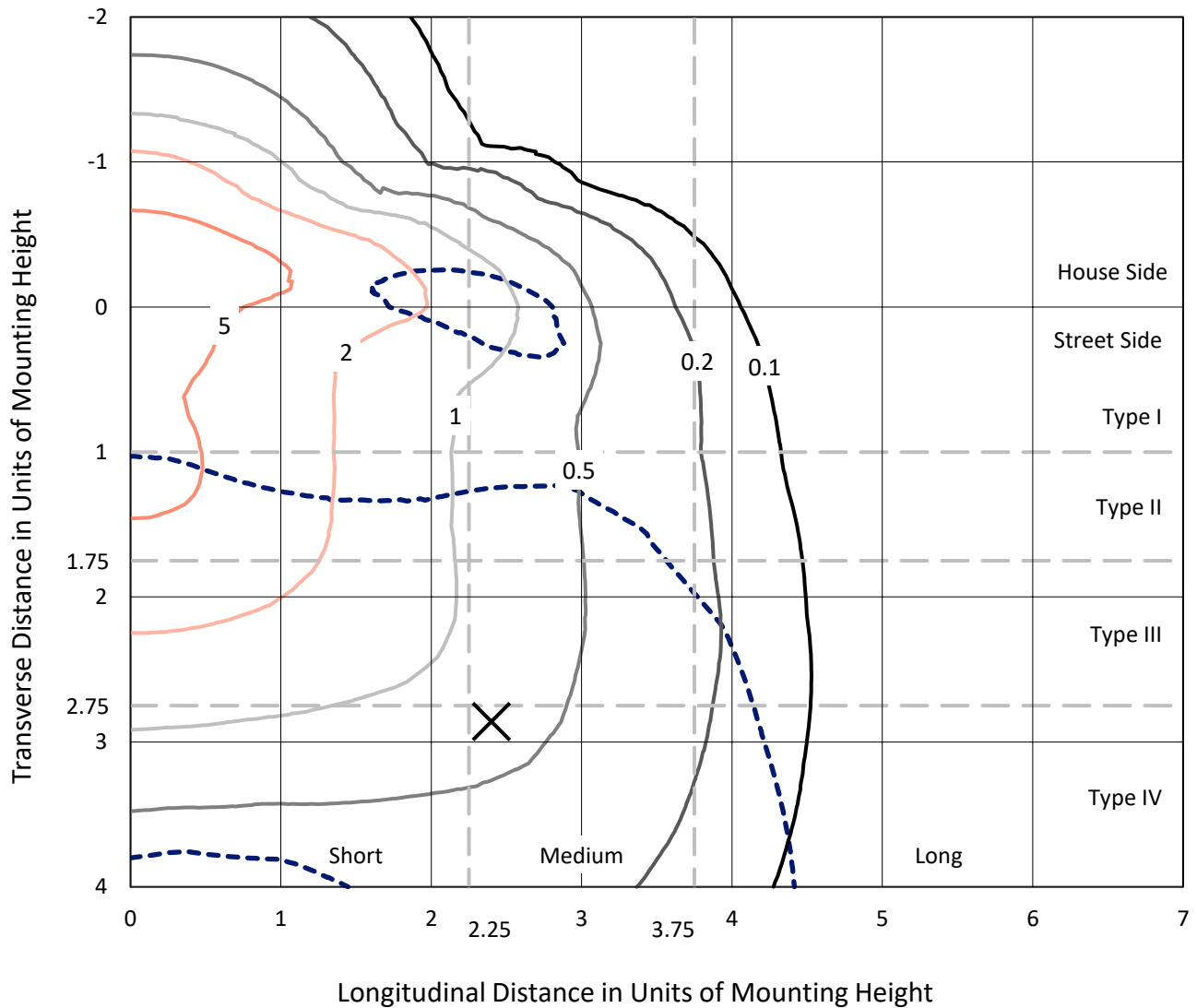
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

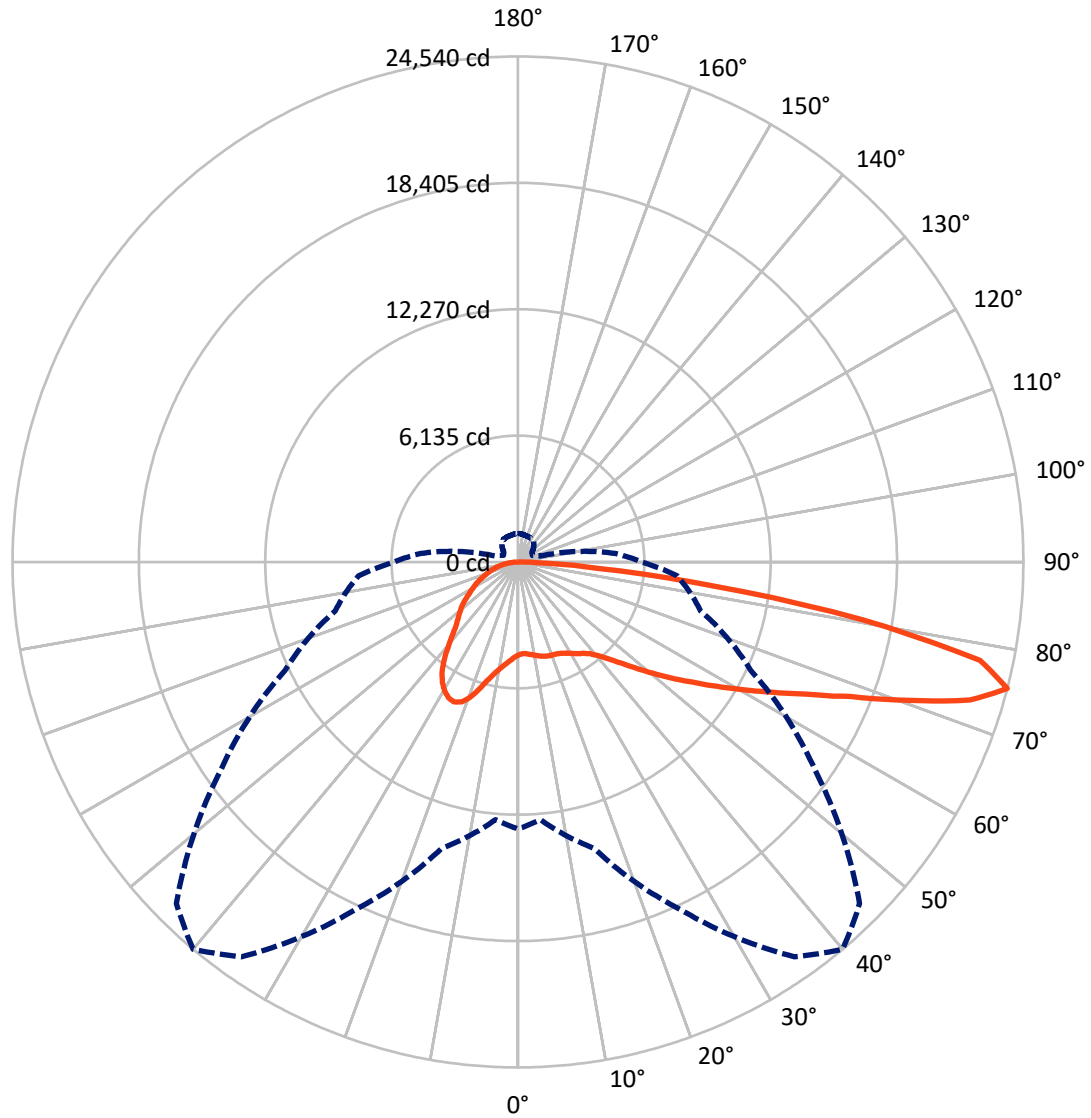
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12215.8	0.0	12215.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27211.2	0.0	27211.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	39427.0	0.0	39427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	1.1
10°-20°	1511.0	3.8
20°-30°	2758.9	7.0
30°-40°	3912.9	9.9
40°-50°	5283.6	13.4
50°-60°	7107.9	18.0
60°-70°	9021.5	22.9
70°-80°	8187.6	20.8
80°-90°	1193.5	3.0
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°	39427.0	100.0
0°-180°	39427.0	100.0

Coefficient of Utilization



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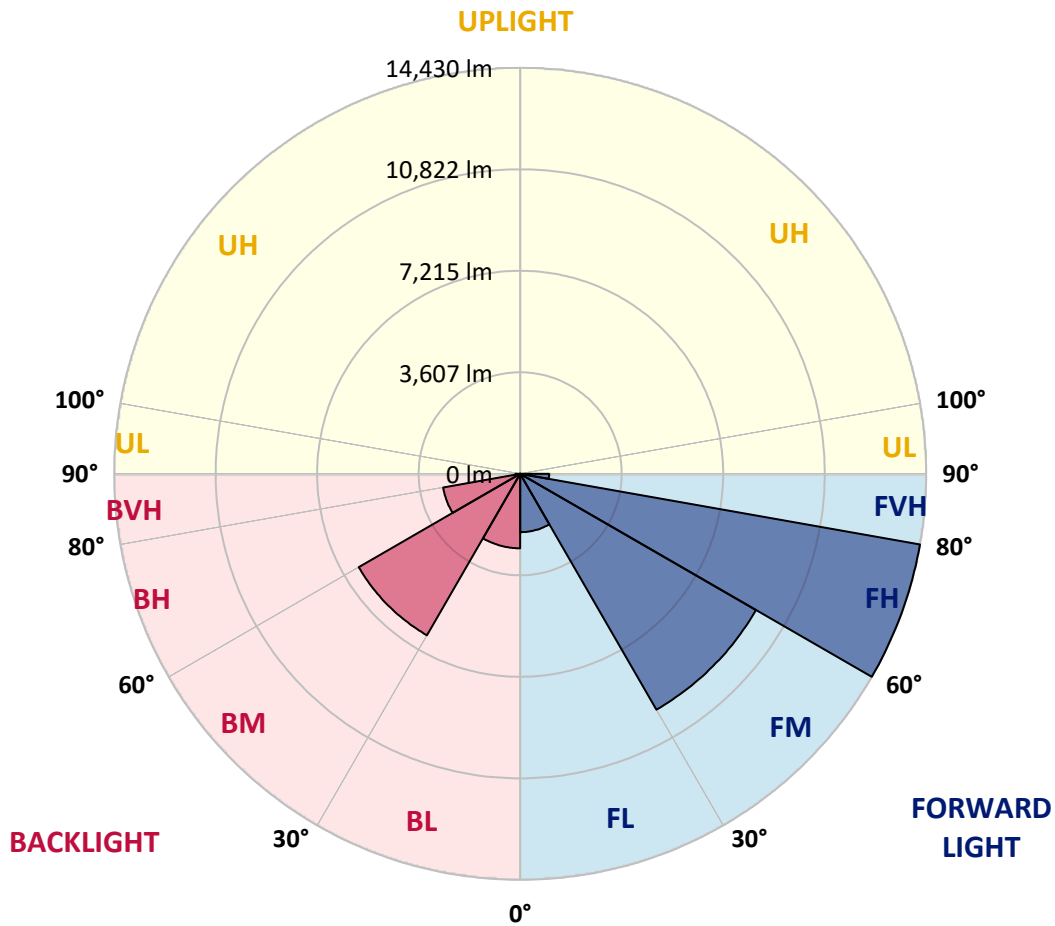
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.9	5.3			
FM (30°-60°)	9678.4	24.5			
FH (60°-80°)	14429.7	36.6			G5
FVH (80°-90°)	1029.2	2.6			G5
BL (0°-30°)	2646.1	6.7	B4/5000		
BM (30°-60°)	6626.0	16.8	B4/8500		
BH (60°-80°)	2779.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	164.3	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5
2.5°	4439.5	4464.6	4458.3	4450.0	4450.0	4452.1	4450.0	4464.6	4479.3	4493.9	4516.9
5°	4485.5	4510.6	4498.1	4487.6	4479.3	4477.2	4470.9	4468.8	4477.2	4496.0	4527.4
7.5°	4575.4	4600.5	4581.7	4562.9	4546.2	4537.8	4529.4	4516.9	4510.6	4521.1	4565.0
10°	4675.8	4700.9	4677.9	4644.5	4617.3	4606.8	4598.4	4585.9	4577.5	4583.8	4631.9
12.5°	4776.2	4801.3	4769.9	4723.9	4688.4	4682.1	4671.6	4667.5	4665.4	4663.3	4711.4
15°	4870.3	4891.2	4851.5	4797.1	4759.5	4749.0	4738.6	4744.8	4755.3	4767.8	4822.2
17.5°	4943.5	4964.4	4905.8	4834.8	4799.2	4795.0	4788.7	4809.7	4838.9	4870.3	4937.2
20°	5010.4	5031.3	4956.0	4859.8	4818.0	4818.0	4820.1	4864.0	4905.8	4951.9	5043.9
22.5°	5104.5	5121.2	5029.2	4897.5	4836.8	4841.0	4857.8	4901.7	4953.9	5016.7	5144.2
25°	5244.6	5257.2	5144.2	4968.6	4899.6	4912.1	4926.8	4947.7	4997.9	5071.1	5242.5
27.5°	5470.5	5480.9	5332.4	5094.1	4989.5	5010.4	5031.3	5016.7	5039.7	5102.4	5322.0
30°	5788.3	5794.6	5606.4	5290.6	5142.1	5152.6	5156.8	5096.1	5052.2	5102.4	5378.5
32.5°	6164.7	6162.6	5938.9	5529.0	5315.7	5305.3	5269.7	5150.5	5048.0	5092.0	5428.6
35°	6748.2	6725.2	6436.6	5863.6	5512.3	5447.5	5363.8	5211.2	5069.0	5081.5	5472.6
37.5°	7714.3	7643.2	7243.8	6411.5	5805.0	5639.8	5516.5	5309.4	5115.0	5077.3	5524.8
40°	8803.8	8713.8	8274.7	7162.2	6244.2	5978.6	5780.0	5449.5	5190.2	5096.1	5602.2
42.5°	10096.1	9968.5	9495.9	8046.8	6800.4	6415.7	6116.6	5627.3	5301.1	5156.8	5706.8
45°	11683.3	11513.9	10844.7	9044.2	7501.0	6988.6	6589.2	5897.1	5470.5	5273.9	5863.6
47.5°	13287.2	13329.0	12377.5	10186.0	8341.6	7695.5	7181.0	6302.7	5717.2	5462.1	6116.6
50°	14991.5	15020.8	13902.0	11451.2	9295.2	8494.3	7846.0	6756.5	6060.2	5729.8	6495.1
52.5°	16321.5	16325.6	15286.3	12774.9	10288.5	9372.6	8563.3	7275.1	6457.5	6085.3	6999.1
55°	17153.7	17143.3	16256.6	14027.5	11430.3	10294.8	9357.9	7864.8	6942.6	6503.5	7632.7
57.5°	17758.1	17726.7	16925.8	15104.4	12647.3	11384.2	10257.1	8534.0	7515.6	7001.2	8467.1
60°	17988.1	17969.3	17379.6	16035.0	13927.1	12588.8	11294.3	9282.6	8166.0	7588.8	9539.8
62.5°	18075.9	18111.5	17825.0	16936.3	15296.8	13922.9	12434.0	10177.7	8897.9	8253.8	10671.2
65°	18385.4	18450.3	18391.7	18115.7	16844.3	15485.0	13945.9	11242.0	9696.7	8966.9	11852.7
67.5°	18998.1	19063.0	19088.1	19527.2	18734.7	17431.9	15832.1	12567.8	10631.4	9707.1	12741.4
70°	18983.5	18964.7	19408.0	20650.2	21101.8	20127.4	18375.0	14198.9	11746.0	10321.9	12854.3
72.5°	17279.2	17128.6	18176.3	20637.6	23071.7	22942.1	21480.3	16302.6	12707.9	10397.2	11154.2
75°	12963.1	12561.6	14412.2	18598.7	23400.0	24539.7	23454.4	17607.5	12480.0	9186.4	7762.4
77.5°	5543.7	5140.1	7321.1	13768.2	20942.9	22940.0	21643.5	15361.6	9962.3	6074.8	3812.2
80°	1451.3	1449.2	2212.4	6242.1	14242.9	16940.4	14861.8	9920.4	5692.1	2170.6	1051.9
82.5°	600.2	585.5	813.5	2427.8	6959.4	9506.4	7758.2	4424.9	2055.6	587.6	349.2
85°	223.8	221.7	395.2	838.6	2455.0	3920.9	2837.7	1131.3	512.3	286.5	156.8
87.5°	62.7	60.6	85.7	290.7	598.1	907.6	485.1	186.1	144.3	112.9	46.0
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°	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5	4508.5
2.5°	4523.2	4533.6	4552.4	4567.1	4585.9	4606.8	4636.1	4654.9	4673.7	4686.3	4677.9
5°	4542.0	4565.0	4613.1	4661.2	4717.6	4769.9	4830.6	4874.5	4910.0	4920.5	4924.7
7.5°	4583.8	4621.5	4703.0	4784.6	4874.5	4960.2	5048.0	5123.3	5184.0	5207.0	5209.1
10°	4657.0	4707.2	4822.2	4937.2	5056.4	5188.2	5301.1	5409.8	5495.6	5531.1	5533.2
12.5°	4749.0	4811.7	4962.3	5121.2	5286.4	5468.4	5614.8	5748.6	5855.2	5903.3	5903.3
15°	4868.2	4949.8	5142.1	5355.4	5598.0	5851.1	6037.2	6185.6	6304.8	6363.4	6359.2
17.5°	4997.9	5106.6	5349.2	5671.2	6018.3	6350.8	6568.3	6677.1	6800.4	6856.9	6854.8
20°	5123.3	5257.2	5604.3	6072.7	6534.9	6888.3	7063.9	7093.2	7101.6	7107.8	7124.6
22.5°	5253.0	5432.8	5924.2	6578.8	7074.4	7319.0	7344.1	7218.7	7043.0	6961.5	6984.5
25°	5395.2	5633.6	6342.5	7137.1	7538.6	7567.9	7375.5	7070.2	6737.7	6585.0	6608.0
27.5°	5533.2	5865.7	6844.4	7670.4	7873.2	7616.0	7201.9	6769.1	6367.6	6206.5	6225.4
30°	5671.2	6131.3	7398.5	8136.7	8025.9	7496.8	6928.0	6444.9	6041.3	5872.0	5890.8
32.5°	5811.3	6440.8	8036.3	8473.4	7998.7	7243.8	6587.1	6081.1	5725.6	5547.8	5570.8
35°	5970.2	6821.3	8640.7	8657.4	7816.7	6871.5	6137.5	5646.1	5336.6	5194.4	5225.8
37.5°	6177.3	7304.4	9173.9	8703.4	7498.9	6325.7	5579.2	5131.7	4876.6	4811.7	4857.8
40°	6434.5	7885.7	9581.7	8630.2	7028.4	5662.8	4968.6	4611.0	4466.7	4481.3	4531.5
42.5°	6769.1	8536.1	9868.2	8442.0	6373.8	4979.0	4433.2	4274.3	4343.3	4401.9	4456.3
45°	7204.0	9211.5	10045.9	8122.0	5633.6	4399.8	4117.5	4155.1	4207.4	4213.7	4255.5
47.5°	7760.3	9895.3	10163.0	7639.0	4878.7	3992.0	3916.7	3925.1	3914.6	3870.7	3904.2
50°	8454.5	10560.3	10267.6	6999.1	4236.7	3736.9	3636.5	3607.2	3463.0	3320.8	3339.6
52.5°	9245.0	11170.9	10311.5	6204.5	3736.9	3523.6	3360.5	3176.5	2906.7	2862.8	2877.4
55°	10123.3	11735.6	10198.6	5227.9	3316.6	3249.7	3002.9	2781.2	2752.0	2714.3	2720.6
57.5°	11173.0	12344.1	9968.5	4138.4	2885.8	2929.7	2689.2	2714.3	2662.0	2603.5	2593.0
60°	12321.1	12973.5	9564.9	3145.1	2440.4	2530.3	2607.7	2605.6	2590.9	2542.8	2526.1
62.5°	13354.1	13387.6	8770.3	2409.0	2049.3	2220.8	2432.0	2429.9	2417.4	2390.2	2379.7
65°	13968.9	13324.8	7444.5	1896.7	1727.3	1965.7	2193.6	2210.4	2212.4	2210.4	2210.4
67.5°	13860.2	12590.8	5625.2	1509.8	1461.7	1706.4	1957.3	1980.3	1997.1	2001.2	2005.4
70°	12630.6	10978.6	3667.9	1204.5	1225.4	1478.4	1733.6	1756.6	1771.2	1787.9	1796.3
72.5°	9845.2	8071.9	2099.5	974.5	1018.4	1281.9	1511.9	1539.1	1547.5	1578.8	1591.4
75°	5999.5	4746.9	1133.4	767.5	836.5	1095.8	1292.3	1323.7	1338.3	1376.0	1380.2
77.5°	2852.3	2055.6	646.2	598.1	673.4	895.0	1091.6	1127.1	1087.4	1108.3	1091.6
80°	964.0	763.3	407.8	455.9	514.4	698.4	874.1	909.7	826.0	821.8	813.5
82.5°	336.7	309.5	259.3	303.2	332.5	499.8	660.8	706.8	614.8	612.7	583.4
85°	131.7	125.5	144.3	165.2	198.7	307.4	435.0	458.0	378.5	305.3	301.1
87.5°	27.2	29.3	35.5	37.6	60.6	106.6	156.8	192.4	152.7	129.7	119.2
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)