

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: P884759

Luminaire Tested: **NAV-SB5D-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884759
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-SB5D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41176 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

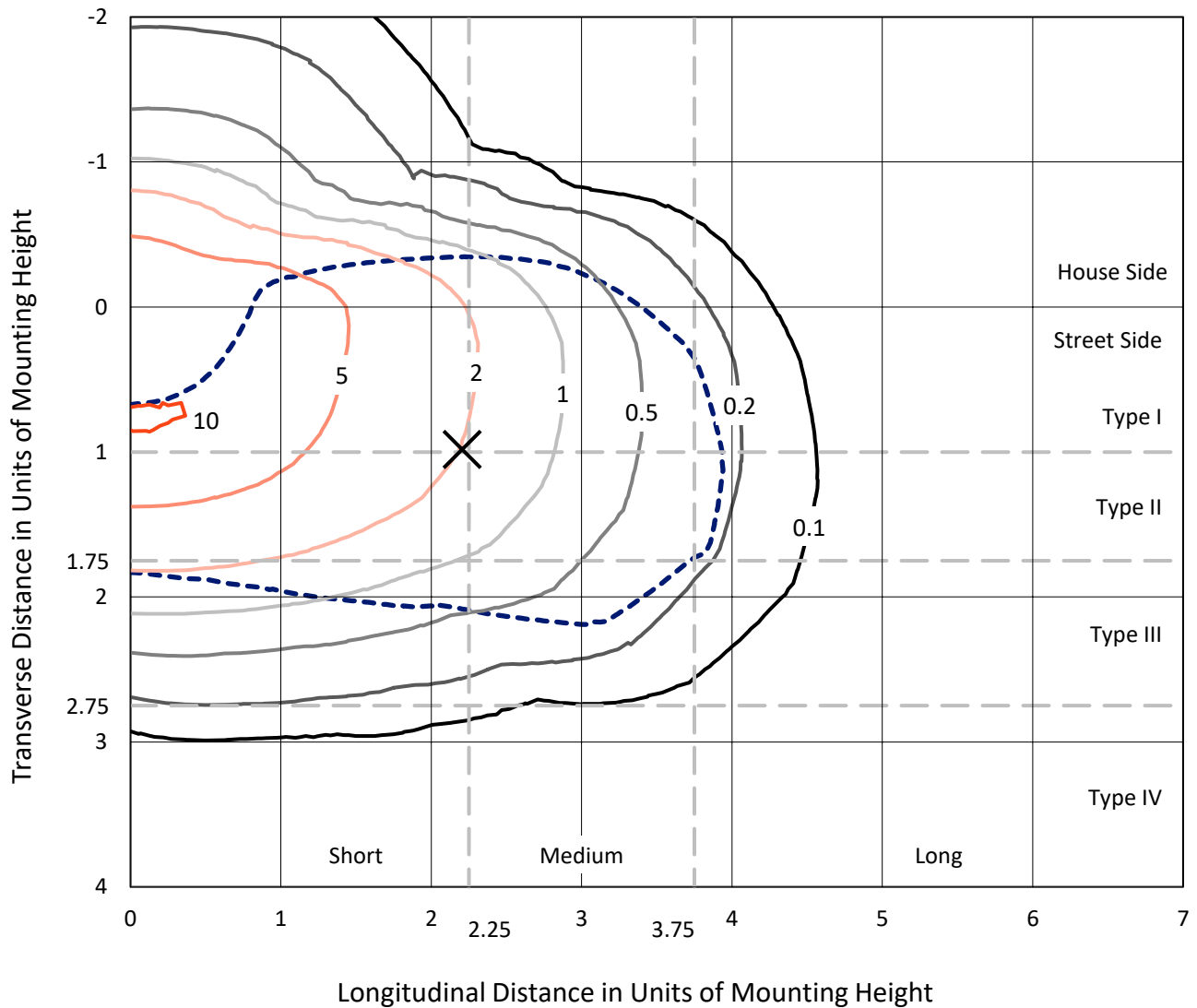
Input Watts (W): 364.9
Input Voltage (V): 120.0
Input Current (Ain): 3.094
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 3.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

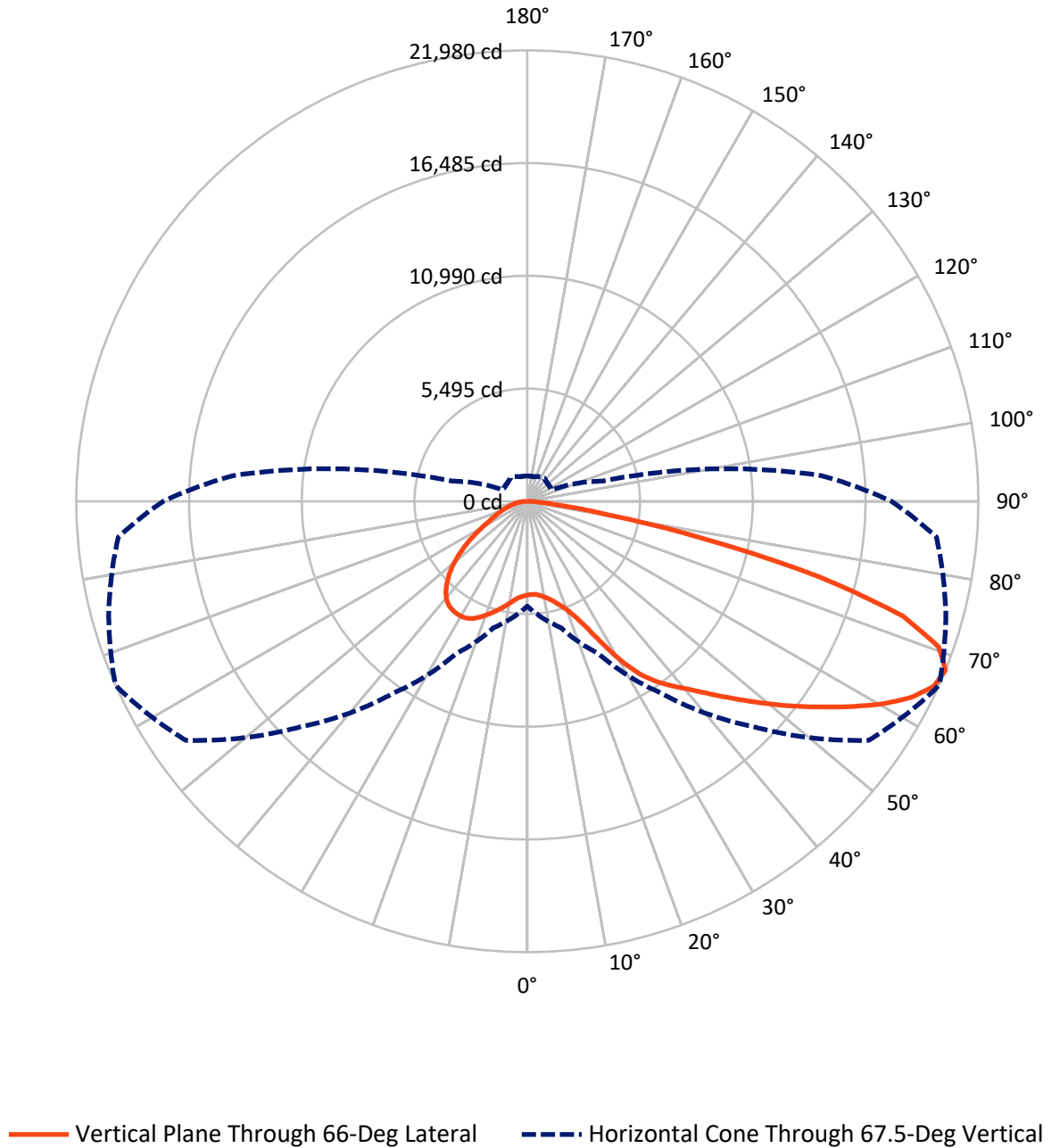
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10238.3	0.0	10238.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30937.7	0.0	30937.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	41176.0	0.0	41176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	1.1
10°-20°	1496.0	3.6
20°-30°	2883.4	7.0
30°-40°	5055.7	12.3
40°-50°	7516.2	18.3
50°-60°	9527.5	23.1
60°-70°	9322.4	22.6
70°-80°	4446.9	10.8
80°-90°	475.3	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°	41176.0	100.0
0°-180°	41176.0	100.0

Coefficient of Utilization



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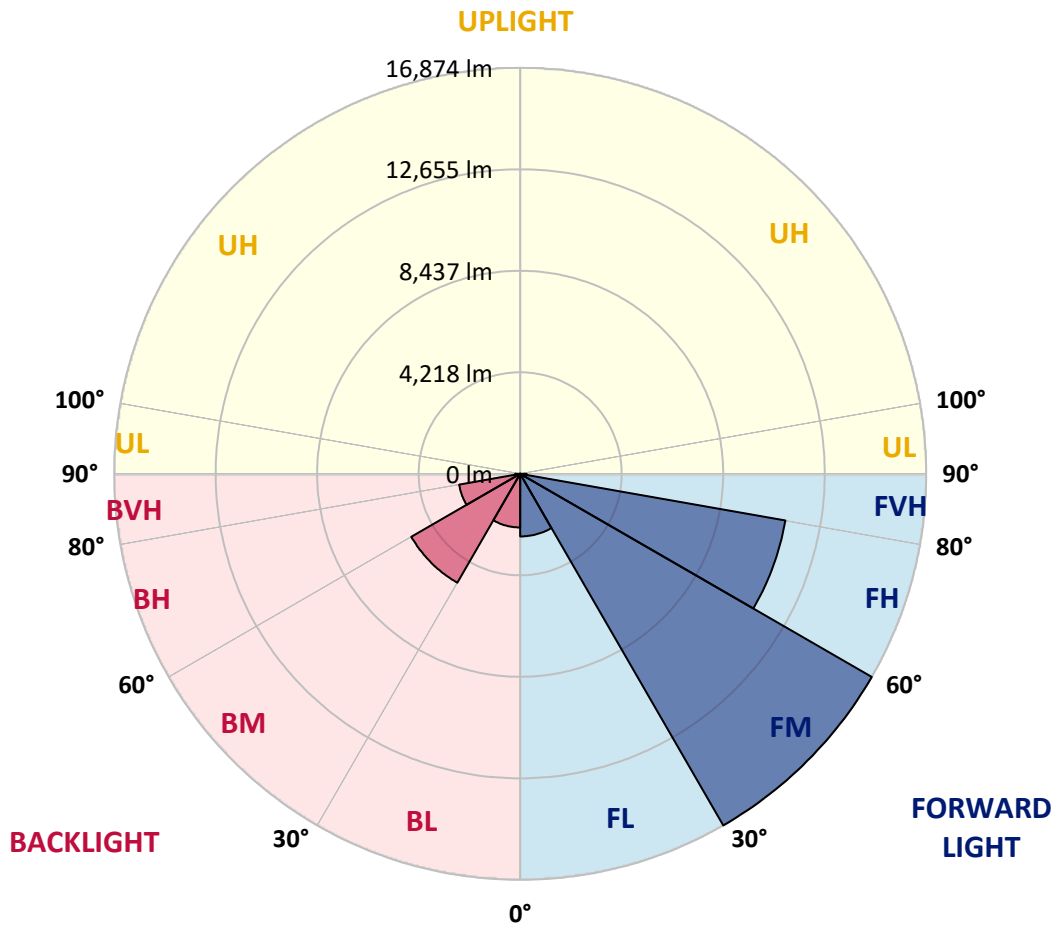
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.9	6.3			
FM (30°-60°)	16873.6	41.0			
FH (60°-80°)	11192.8	27.2			G4/12000
FVH (80°-90°)	269.4	0.7			G3/500
BL (0°-30°)	2230.3	5.4	B3/2500		
BM (30°-60°)	5225.7	12.7	B4/8500		
BH (60°-80°)	2576.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	205.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0
2.5°	4519.4	4545.3	4538.8	4528.0	4525.9	4530.2	4536.7	4543.2	4541.0	4551.8	4569.1
5°	4506.4	4532.3	4530.2	4530.2	4538.8	4556.1	4567.0	4577.8	4567.0	4579.9	4603.7
7.5°	4515.0	4534.5	4543.2	4551.8	4573.5	4605.9	4631.9	4655.7	4642.7	4657.8	4688.1
10°	4625.4	4640.5	4649.2	4649.2	4664.3	4701.1	4727.1	4770.3	4759.5	4783.3	4822.2
12.5°	4826.6	4841.7	4841.7	4833.1	4843.9	4867.7	4876.3	4923.9	4904.5	4943.4	4982.3
15°	5073.2	5103.5	5079.7	5064.5	5068.9	5092.7	5090.5	5127.3	5107.8	5140.3	5174.9
17.5°	5345.8	5384.7	5345.8	5343.6	5335.0	5360.9	5363.1	5395.5	5360.9	5384.7	5408.5
20°	5668.1	5722.2	5689.8	5700.6	5681.1	5691.9	5702.8	5750.3	5696.3	5713.6	5707.1
22.5°	6122.5	6187.4	6152.7	6193.8	6180.9	6172.2	6170.1	6254.4	6170.1	6176.5	6113.8
25°	6784.5	6862.3	6801.8	6858.0	6858.0	6886.1	6918.6	7026.8	6886.1	6845.0	6682.8
27.5°	7762.3	7840.2	7721.2	7755.8	7745.0	7814.2	7779.6	8047.9	7896.5	7829.4	7502.7
30°	8939.2	9077.7	8852.7	8844.0	8833.2	8943.5	8993.3	9170.7	9017.1	8950.0	8556.3
32.5°	10211.3	10356.3	10088.0	10010.1	9969.0	10036.1	9995.0	10137.7	10031.7	9927.9	9441.1
35°	11556.9	11699.7	11444.4	11293.0	11128.6	10988.0	10840.9	10877.6	10778.1	10620.2	10116.1
37.5°	12829.0	13090.8	12820.4	12658.1	12355.2	12080.5	11669.4	11498.5	11405.5	11260.6	10752.2
40°	14124.9	14274.2	14068.7	13930.2	13601.4	13170.9	12513.2	12151.9	12026.4	11885.8	11455.3
42.5°	15079.0	15221.8	15111.4	15016.2	14758.8	14259.0	13408.8	12956.7	12774.9	12617.0	12251.4
45°	15836.2	15942.2	15873.0	15907.6	15797.2	15312.6	14336.9	13819.9	13631.7	13439.1	13151.4
47.5°	16141.2	16253.7	16364.0	16569.6	16757.8	16400.8	15334.3	14754.5	14555.4	14358.6	14075.2
50°	16106.6	16221.3	16541.4	16978.5	17562.6	17443.6	16385.7	15749.6	15565.7	15340.8	15079.0
52.5°	15829.7	15959.5	16370.5	17097.4	18027.7	18224.6	17456.6	16777.3	16604.2	16335.9	16074.2
55°	15102.8	15180.7	15797.2	16827.0	18138.0	18769.8	18505.8	17871.9	17698.9	17324.6	17039.0
57.5°	13755.0	13867.5	14765.3	16097.9	17861.1	19139.7	19427.4	19022.9	18856.3	18317.6	18019.1
60°	11996.1	12175.7	13203.3	14873.5	17155.9	19137.5	20264.7	20154.3	20015.9	19295.5	18983.9
62.5°	10005.8	10213.5	11202.1	13142.7	15922.7	18594.5	20788.2	21101.9	21030.5	20197.6	19799.5
65°	7684.4	7827.2	8811.6	10903.6	14003.8	17428.4	20848.8	21748.8	21761.8	20883.4	20225.7
67.5°	5116.5	5527.5	6382.1	8182.0	11433.6	15522.5	20316.6	21854.8	21980.3	21119.2	20011.6
70°	2496.6	3037.4	3874.7	5317.7	8182.0	12599.7	18925.5	20985.1	21264.2	20431.3	18735.1
72.5°	1036.3	1211.5	1668.0	2624.2	4696.8	8502.2	16130.4	18627.0	19144.0	18103.4	15751.8
75°	698.8	757.2	954.1	1345.6	2139.6	4192.7	11632.7	13889.1	14722.0	13672.8	11176.2
77.5°	538.7	575.5	694.5	941.1	1272.1	1585.8	6226.3	8370.2	8800.8	8147.4	5815.3
80°	424.0	452.2	519.2	685.8	902.1	848.1	2122.3	3792.5	4041.3	3390.1	1869.2
82.5°	367.8	378.6	372.1	465.1	599.3	495.4	696.6	1399.7	1544.7	1120.6	610.1
85°	266.1	296.4	309.4	287.7	318.0	251.0	285.6	495.4	545.2	486.8	344.0
87.5°	108.2	160.1	196.9	186.1	116.8	71.4	88.7	144.9	166.6	181.7	112.5
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°	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0
2.5°	4571.3	4586.4	4597.3	4610.2	4618.9	4631.9	4657.8	4673.0	4675.1	4686.0	4683.8
5°	4612.4	4634.0	4657.8	4692.4	4731.4	4763.8	4813.6	4848.2	4861.2	4872.0	4869.8
7.5°	4701.1	4731.4	4774.7	4835.2	4891.5	4934.7	4995.3	5036.4	5077.5	5092.7	5094.8
10°	4833.1	4876.3	4939.1	5021.3	5081.9	5138.1	5200.8	5235.5	5276.6	5293.9	5302.5
12.5°	4997.5	5042.9	5125.1	5239.8	5296.0	5335.0	5356.6	5348.0	5356.6	5371.8	5376.1
15°	5185.7	5235.5	5328.5	5451.8	5490.7	5456.1	5408.5	5365.3	5358.8	5363.1	5378.2
17.5°	5408.5	5445.3	5553.5	5657.3	5629.2	5486.4	5382.6	5313.3	5278.7	5267.9	5283.1
20°	5720.1	5720.1	5808.8	5873.7	5685.4	5443.1	5280.9	5168.4	5097.0	5066.7	5060.2
22.5°	6098.7	6064.0	6120.3	6074.9	5674.6	5322.0	5097.0	4902.3	4794.1	4750.9	4744.4
25°	6578.9	6537.8	6522.7	6241.4	5596.7	5129.4	4763.8	4528.0	4432.8	4409.0	4413.4
27.5°	7303.7	7199.8	7003.0	6332.3	5454.0	4826.6	4374.4	4155.9	4101.8	4104.0	4110.5
30°	8268.6	8060.9	7578.4	6347.5	5220.3	4398.2	3976.4	3820.6	3794.6	3805.4	3842.2
32.5°	9162.0	8965.2	8166.9	6278.2	4861.2	3978.5	3619.4	3515.5	3476.6	3489.6	3506.9
35°	9863.0	9808.9	8712.1	6180.9	4419.9	3584.8	3299.2	3210.5	3134.8	3117.5	3130.5
37.5°	10525.0	10503.4	9120.9	6044.6	3982.8	3305.7	3041.8	2924.9	2814.6	2754.0	2756.2
40°	11251.9	11230.3	9389.2	5834.7	3595.6	3063.4	2810.3	2656.7	2520.4	2410.0	2420.9
42.5°	12069.7	11942.0	9516.8	5534.0	3266.8	2857.9	2622.1	2414.4	2234.8	2133.1	2139.6
45°	12963.2	12675.4	9514.7	5151.1	2989.8	2669.7	2420.9	2126.6	1960.1	1864.9	1860.5
47.5°	13910.7	13376.4	9397.9	4727.1	2721.6	2462.0	2109.3	1884.3	1774.0	1715.6	1702.6
50°	14888.6	14031.9	9198.8	4240.3	2446.8	2226.2	1914.6	1761.0	1676.6	1622.6	1603.1
52.5°	15808.1	14626.8	8958.7	3688.6	2167.7	1996.8	1828.1	1709.1	1620.4	1559.8	1533.9
55°	16662.6	15139.6	8619.0	3124.0	1940.6	1843.2	1787.0	1687.5	1585.8	1514.4	1486.3
57.5°	17422.0	15472.7	8032.7	2593.9	1778.3	1737.2	1743.7	1650.7	1533.9	1473.3	1434.3
60°	18053.7	15717.2	7165.2	2102.8	1646.4	1633.4	1676.6	1581.5	1445.2	1375.9	1345.6
62.5°	18432.3	15712.9	6100.8	1722.1	1533.9	1538.2	1587.9	1494.9	1356.5	1291.6	1272.1
65°	18399.8	15327.8	4932.6	1473.3	1425.7	1430.0	1494.9	1399.7	1282.9	1244.0	1241.8
67.5°	17748.6	14388.9	3783.8	1311.0	1306.7	1326.2	1401.9	1334.8	1237.5	1233.1	1239.6
70°	15985.5	12439.6	2725.9	1181.2	1183.4	1211.5	1311.0	1293.7	1213.7	1222.3	1220.2
72.5°	12818.2	9484.4	1830.2	1044.9	1047.1	1092.5	1224.5	1261.3	1189.9	1304.5	1321.8
75°	8536.8	5914.8	1176.9	900.0	902.1	960.6	1148.8	1198.5	1125.0	1300.2	1311.0
77.5°	4101.8	2658.8	852.4	757.2	757.2	811.3	993.0	1073.1	958.4	1010.3	925.9
80°	1417.0	999.5	670.7	610.1	597.1	633.9	837.2	930.3	826.4	761.5	713.9
82.5°	558.2	519.2	538.7	473.8	430.5	454.3	651.2	768.0	607.9	549.5	547.3
85°	320.2	337.5	380.8	313.7	248.8	279.1	478.1	551.7	458.6	404.6	413.2
87.5°	86.5	119.0	175.2	162.3	112.5	119.0	227.2	305.0	263.9	203.4	209.9
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)