

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: P966574

Luminaire Tested: **NAV-SB4C-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24838.8 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

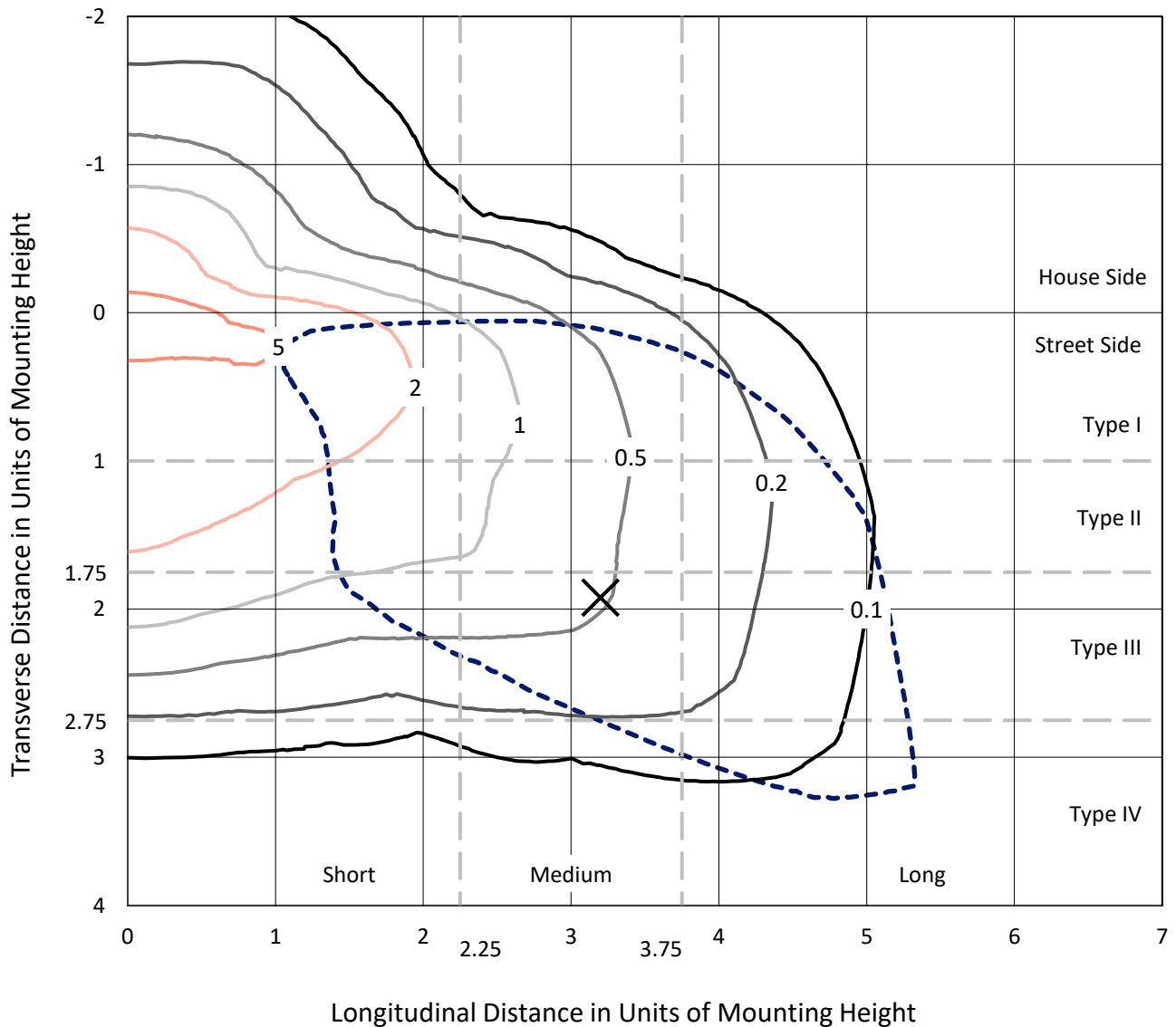
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

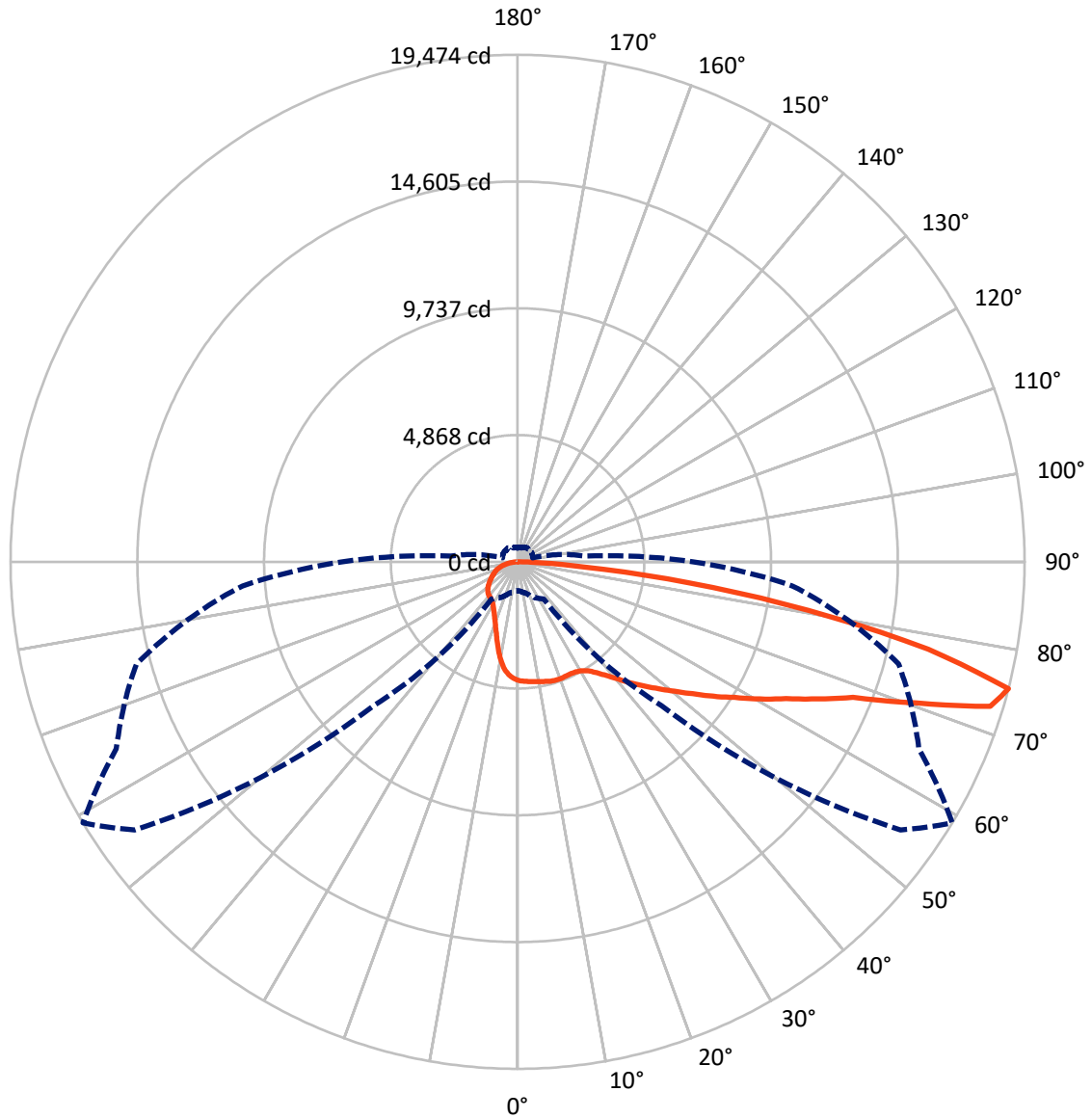
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4658.7	0.0	4658.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20180.1	0.0	20180.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	24838.8	0.0	24838.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	1.6
10°-20°	1044.9	4.2
20°-30°	1587.1	6.4
30°-40°	2359.2	9.5
40°-50°	3508.6	14.1
50°-60°	4762.5	19.2
60°-70°	5814.2	23.4
70°-80°	4562.9	18.4
80°-90°	790.4	3.2
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°	24838.8	100.0
0°-180°	24838.8	100.0

Coefficient of Utilization

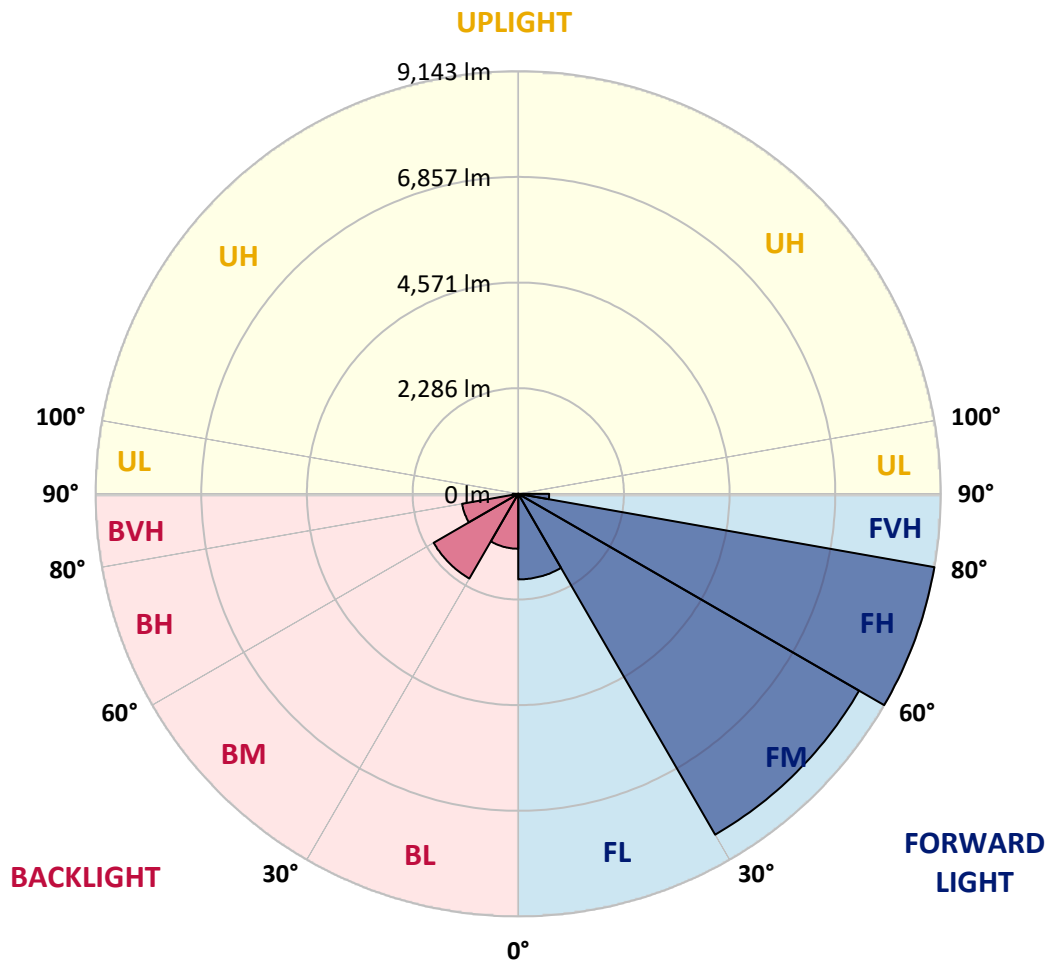


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.0	7.5			
FM (30°-60°)	8515.8	34.3			
FH (60°-80°)	9142.9	36.8			G4/12000
FVH (80°-90°)	669.4	2.7			G4/750
BL (0°-30°)	1188.8	4.8	B3/2500		
BM (30°-60°)	2114.6	8.5	B2/2500		
BH (60°-80°)	1234.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	121.0	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1
2.5°	4597.8	4581.9	4597.8	4591.2	4588.5	4583.2	4584.5	4593.8	4588.5	4595.2	4572.4
5°	4567.1	4557.8	4573.9	4569.8	4587.2	4589.8	4607.2	4617.9	4624.6	4625.9	4608.5
7.5°	4516.4	4507.0	4529.7	4548.4	4585.8	4596.5	4632.6	4650.0	4659.3	4675.3	4650.0
10°	4330.6	4326.6	4382.7	4453.5	4541.8	4596.5	4651.3	4680.7	4695.4	4738.2	4708.7
12.5°	4001.9	4007.2	4080.7	4217.1	4393.5	4569.8	4672.7	4715.4	4738.2	4791.6	4778.2
15°	3688.0	3686.6	3766.8	3912.4	4159.6	4452.2	4683.3	4756.8	4795.7	4874.5	4863.7
17.5°	3506.2	3500.9	3557.0	3667.9	3897.7	4271.8	4656.7	4779.6	4862.4	4961.3	4952.0
20°	3472.8	3462.1	3491.5	3546.3	3709.3	4074.1	4587.2	4779.6	4915.9	5044.1	5038.8
22.5°	3594.4	3577.0	3565.0	3558.3	3630.4	3911.1	4508.4	4763.6	4994.7	5163.0	5153.7
25°	3838.9	3812.2	3750.7	3690.6	3669.2	3837.6	4438.9	4759.6	5112.3	5323.4	5288.7
27.5°	4234.4	4201.0	4076.7	3932.4	3802.9	3875.0	4408.1	4783.6	5242.0	5493.1	5423.6
30°	4724.8	4688.8	4532.3	4310.5	4078.1	4013.9	4446.9	4854.4	5407.6	5718.9	5582.7
32.5°	5164.4	5124.3	4990.7	4764.9	4450.9	4254.5	4569.8	4989.4	5668.1	6032.9	5821.8
35°	5554.6	5507.8	5387.6	5179.1	4907.9	4592.5	4791.6	5228.5	6038.3	6543.4	6146.5
37.5°	5936.7	5882.0	5751.0	5530.5	5340.8	5042.8	5097.6	5535.9	6530.0	7163.3	6576.8
40°	6364.3	6285.5	6126.4	5908.7	5724.3	5570.6	5499.8	5912.7	7029.8	7855.5	7113.9
42.5°	6778.5	6703.7	6514.0	6328.2	6097.1	6052.9	5966.1	6353.7	7576.3	8615.8	7659.1
45°	7224.8	7135.3	6905.5	6670.3	6524.6	6373.7	6417.7	6794.6	8112.1	9390.8	8231.0
47.5°	7643.0	7542.9	7271.6	7009.7	6929.5	6643.5	6832.0	7279.7	8669.2	10176.5	8797.6
50°	7868.9	7770.0	7544.2	7307.6	7244.9	6976.3	7281.0	7812.8	9253.2	10959.5	9341.3
52.5°	8057.3	7950.4	7655.1	7524.1	7505.5	7338.4	7834.2	8422.0	9837.1	11651.7	9866.4
55°	8257.7	8138.8	7762.0	7644.3	7729.9	7744.6	8490.2	9112.9	10454.4	12326.4	10362.2
57.5°	8488.8	8337.9	7864.8	7745.9	7949.1	8220.3	9243.9	9829.0	11061.1	12951.8	10803.2
60°	8706.7	8554.3	8062.6	7907.7	8185.5	8772.2	10108.3	10696.3	11747.8	13509.0	11220.1
62.5°	8749.4	8623.8	8220.3	8219.0	8506.3	9416.2	11131.9	11571.5	12347.8	14059.5	11594.2
65°	8009.1	7930.3	7691.2	8207.0	8965.9	10343.5	12271.6	12691.2	13110.8	14540.5	11922.9
67.5°	6095.8	6106.4	6089.0	7084.5	8594.4	11675.7	13921.9	13889.8	14052.9	15080.3	12301.0
70°	2787.3	2850.1	3259.0	4890.5	6885.4	11829.3	16650.4	16234.8	15235.3	15779.2	12628.4
72.5°	1505.9	1554.0	1721.0	2369.1	4139.6	10517.2	18689.4	18984.7	16808.1	16249.5	12268.9
75°	1105.1	1131.8	1248.0	1505.9	1738.4	7816.8	17958.5	19473.8	17004.4	15152.5	10594.7
77.5°	827.1	839.2	934.0	1193.2	889.9	4120.8	14349.5	16128.0	14556.5	12449.3	7826.1
80°	599.9	613.4	684.1	895.2	624.0	1507.3	9853.1	11320.3	9969.4	7935.7	3900.3
82.5°	414.2	419.5	450.3	609.3	435.6	585.3	5590.7	6638.2	5565.2	2784.6	1052.9
85°	249.9	256.6	269.9	355.5	247.2	278.0	2413.2	2496.0	1663.6	665.4	327.4
87.5°	102.9	109.6	120.2	149.6	97.6	77.5	398.2	499.7	311.3	195.1	101.6
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°	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1	4559.1
2.5°	4565.8	4556.4	4531.0	4496.3	4464.3	4424.1	4406.8	4392.1	4378.7	4353.4	4341.3
5°	4593.8	4568.4	4500.4	4412.1	4311.9	4202.3	4095.5	4022.0	3959.2	3912.4	3873.7
7.5°	4636.6	4588.5	4464.3	4283.9	4054.0	3818.8	3606.4	3455.4	3341.8	3300.4	3228.2
10°	4680.7	4623.3	4406.8	4088.7	3691.9	3329.8	3047.8	2892.9	2802.0	2772.6	2727.2
12.5°	4732.8	4648.7	4317.3	3817.5	3287.1	2890.2	2644.3	2553.5	2506.7	2490.6	2494.6
15°	4809.0	4670.0	4182.3	3478.1	2900.9	2569.5	2410.5	2347.7	2323.7	2322.3	2327.7
17.5°	4866.4	4674.0	3972.5	3114.7	2604.2	2375.7	2244.9	2220.8	2236.8	2260.8	2270.2
20°	4930.6	4637.9	3697.3	2783.3	2395.8	2206.1	2151.3	2167.4	2206.1	2240.9	2252.8
22.5°	4976.0	4572.4	3364.6	2525.4	2215.4	2108.5	2105.9	2139.3	2160.6	2178.0	2187.4
25°	5016.0	4461.5	3011.8	2308.9	2067.1	2049.7	2079.1	2068.4	2053.7	2068.4	2077.8
27.5°	5045.5	4286.5	2696.5	2119.2	1962.9	2009.6	1992.3	1968.2	1966.9	1974.9	1988.3
30°	5036.1	4052.6	2437.2	1938.8	1889.4	1934.8	1893.4	1889.4	1885.4	1889.4	1904.0
32.5°	5036.1	3786.8	2238.1	1814.6	1842.6	1825.2	1821.2	1811.9	1795.9	1794.5	1811.9
35°	5064.2	3520.9	2067.1	1747.7	1803.9	1762.5	1765.2	1742.4	1709.0	1693.0	1709.0
37.5°	5121.6	3307.1	1897.4	1715.6	1735.7	1734.4	1723.7	1685.0	1626.2	1575.4	1592.7
40°	5260.6	3244.3	1781.1	1701.0	1703.7	1719.6	1691.7	1616.8	1483.2	1400.4	1411.0
42.5°	5478.4	3349.8	1755.7	1664.9	1682.2	1698.3	1643.5	1469.8	1374.9	1325.5	1325.5
45°	5755.0	3534.2	1810.6	1612.8	1631.5	1659.6	1496.5	1413.7	1370.9	1372.3	1378.9
47.5°	6105.1	3728.0	1912.1	1567.3	1558.0	1574.1	1399.0	1348.2	1289.4	1304.1	1341.5
50°	6510.0	3924.4	2008.3	1505.9	1476.5	1424.3	1336.2	1288.1	1213.3	1178.5	1187.9
52.5°	6948.3	4114.1	2047.0	1431.1	1388.3	1328.2	1293.4	1234.6	1143.8	1086.3	1085.0
55°	7363.8	4286.5	2004.3	1341.5	1300.1	1253.4	1248.0	1212.0	1114.4	1034.2	1034.2
57.5°	7756.6	4430.9	1897.4	1250.7	1210.6	1182.5	1218.6	1201.2	1078.3	975.4	970.1
60°	8089.3	4529.7	1742.4	1158.5	1130.5	1115.7	1170.6	1165.1	1027.6	912.7	908.7
62.5°	8354.0	4568.4	1571.3	1070.3	1063.6	1036.9	1103.7	1103.7	963.4	851.2	847.2
65°	8561.0	4531.0	1397.7	983.5	996.8	956.7	1022.2	1014.1	895.2	796.4	791.0
67.5°	8744.1	4408.1	1205.3	897.9	928.6	877.9	936.6	918.0	820.4	741.6	736.3
70°	8825.6	4122.1	986.2	812.4	849.8	800.4	851.2	816.4	736.3	682.8	672.1
72.5°	8170.9	3426.1	776.3	722.9	754.9	714.8	758.9	718.8	645.3	621.4	601.3
75°	6759.9	2570.8	597.3	625.4	649.4	618.7	648.1	618.7	551.9	569.2	519.8
77.5°	4909.2	1735.7	456.9	522.4	533.1	517.1	542.5	509.1	449.0	445.0	424.9
80°	2441.2	1016.8	358.1	412.9	408.9	398.2	427.6	411.5	360.8	382.1	378.1
82.5°	706.8	435.6	260.6	290.0	282.0	284.6	306.0	314.0	470.4	466.4	477.0
85°	221.8	171.1	156.3	161.6	153.6	157.6	180.4	358.1	331.4	193.7	209.8
87.5°	57.5	58.8	38.7	41.4	42.7	50.7	57.5	217.8	104.2	68.2	72.2
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)