

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: P967122

Luminaire Tested: **NAV-SB4D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34465.6 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

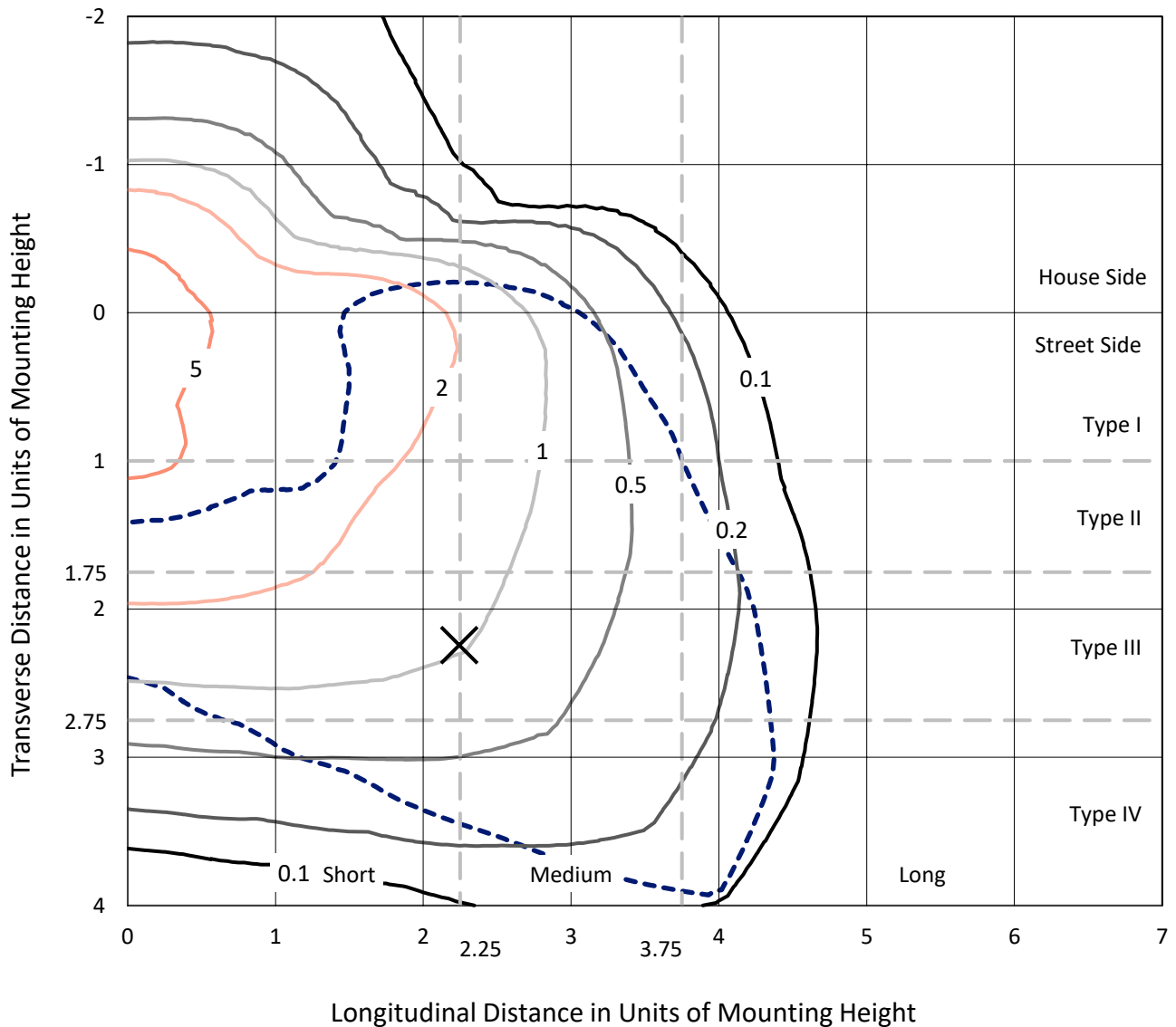
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

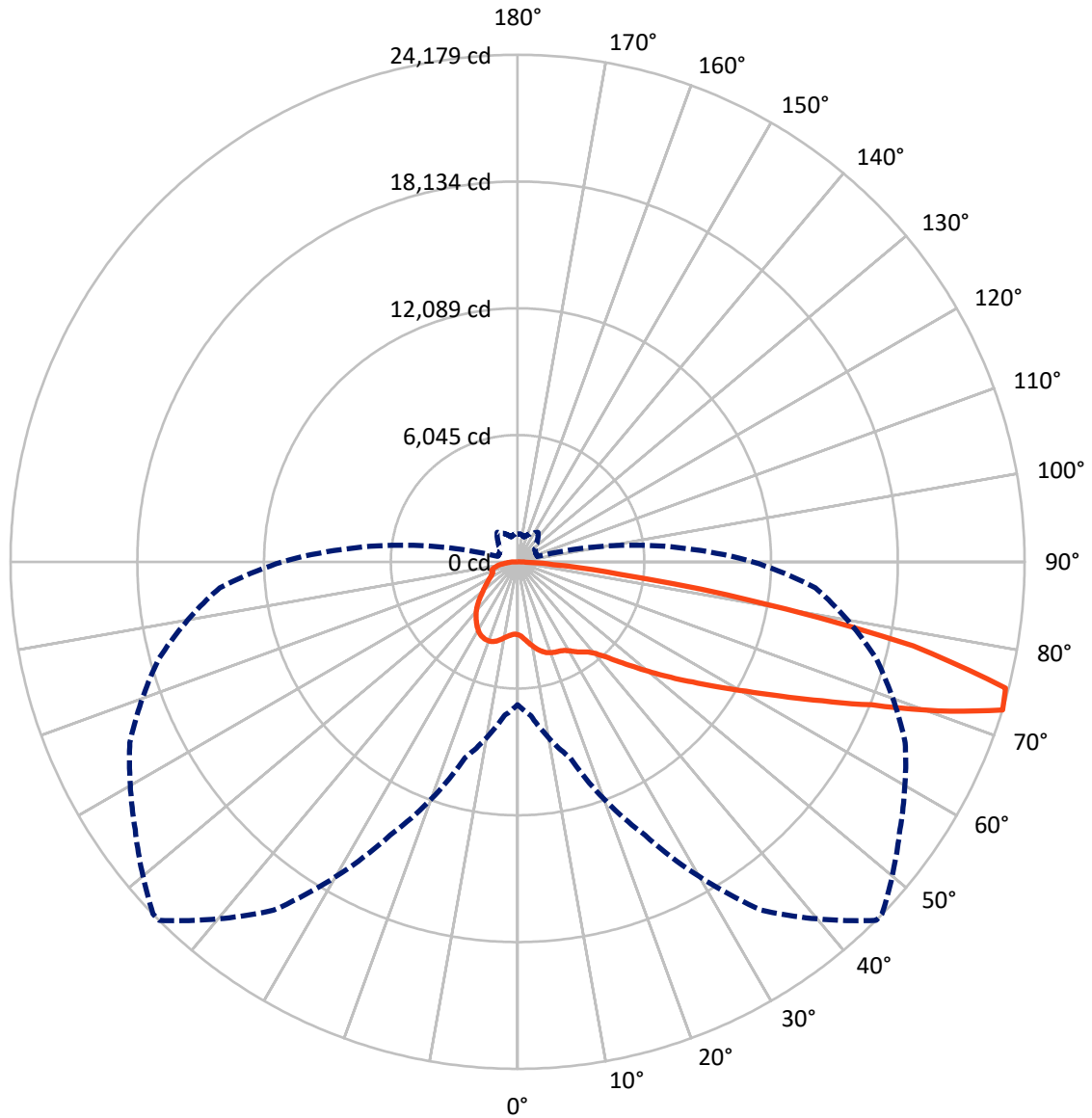
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7791.5	0.0	7791.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26674.1	0.0	26674.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	34465.6	0.0	34465.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	1.0
10°-20°	1179.9	3.4
20°-30°	2052.5	6.0
30°-40°	2942.3	8.5
40°-50°	4143.0	12.0
50°-60°	6345.8	18.4
60°-70°	9192.9	26.7
70°-80°	7341.1	21.3
80°-90°	914.3	2.7
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°	34465.6	100.0
0°-180°	34465.6	100.0

Coefficient of Utilization

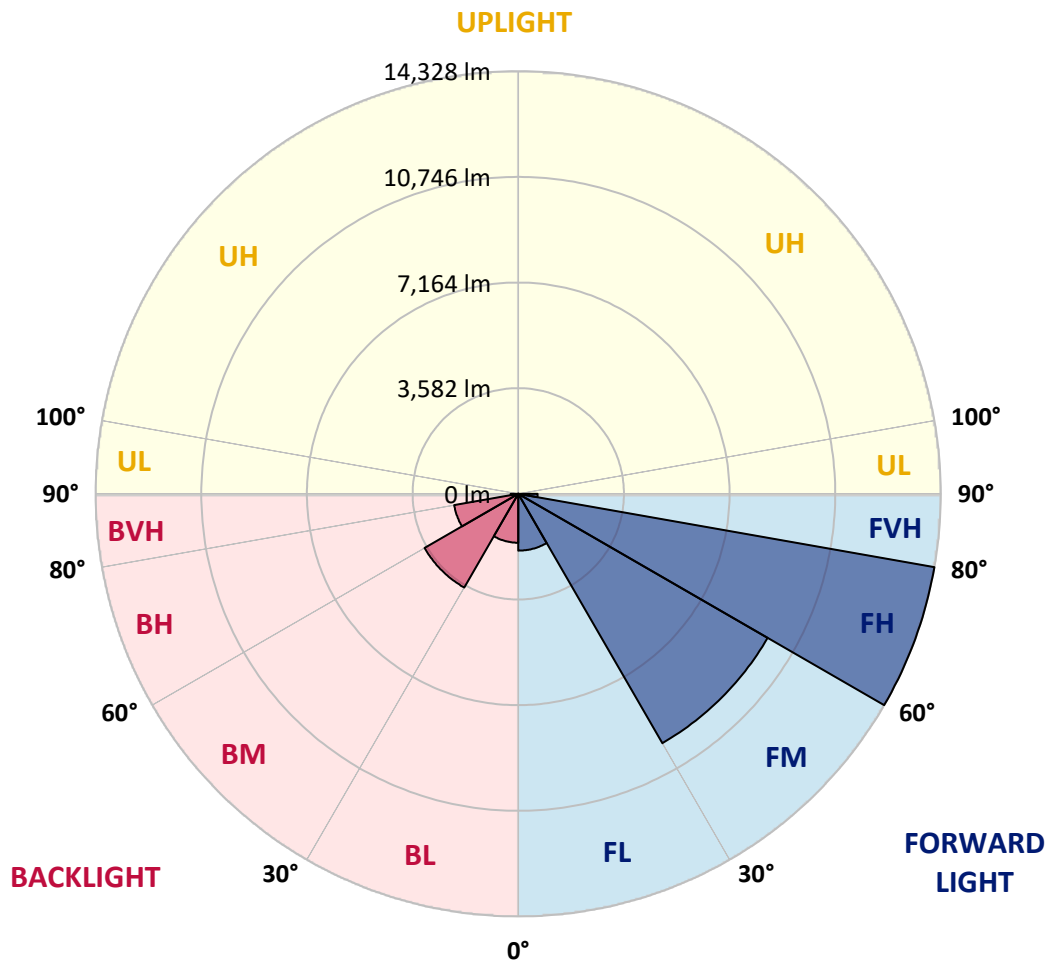


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.4	5.6			
FM (30°-60°)	9762.5	28.3			
FH (60°-80°)	14328.4	41.6			G5
FVH (80°-90°)	655.9	1.9			G4/750
BL (0°-30°)	1658.9	4.8	B3/2500		
BM (30°-60°)	3668.7	10.6	B3/5000		
BH (60°-80°)	2205.6	6.4	B3/2500		G3/2500
BVH (80°-90°)	258.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9
2.5°	3613.1	3636.7	3614.9	3594.9	3585.9	3562.3	3560.4	3545.9	3536.9	3511.4	3504.2
5°	3865.5	3896.3	3860.0	3820.1	3783.8	3725.7	3718.4	3676.7	3629.4	3575.0	3544.0
7.5°	4150.5	4177.7	4136.0	4076.0	4012.6	3916.3	3914.5	3838.2	3763.8	3671.1	3618.6
10°	4399.2	4435.6	4379.3	4297.6	4217.7	4108.7	4096.0	4008.9	3914.5	3794.7	3714.8
12.5°	4619.0	4644.4	4589.8	4490.0	4397.5	4288.5	4272.2	4176.0	4070.6	3934.5	3832.8
15°	4793.2	4825.9	4753.3	4646.1	4548.1	4441.0	4426.5	4339.3	4234.1	4090.6	3959.9
17.5°	4907.6	4934.9	4860.4	4740.6	4646.1	4557.3	4546.3	4473.7	4381.1	4235.8	4096.0
20°	4951.2	4980.3	4902.2	4780.5	4693.4	4624.4	4619.0	4566.3	4502.7	4370.2	4228.5
22.5°	4994.7	5022.0	4920.3	4793.2	4716.9	4673.4	4671.5	4637.1	4611.7	4502.7	4364.8
25°	5170.9	5178.1	5042.0	4858.6	4749.6	4711.5	4709.7	4707.9	4718.8	4633.4	4511.8
27.5°	5323.4	5321.6	5205.4	5032.9	4864.0	4784.2	4782.3	4800.5	4835.0	4764.2	4664.4
30°	5546.7	5526.7	5388.7	5209.0	5054.7	4931.2	4920.3	4904.0	4931.2	4874.9	4816.9
32.5°	6020.5	5957.1	5733.7	5414.2	5212.6	5118.2	5103.7	5002.0	5013.0	4978.4	4949.4
35°	6699.6	6616.1	6318.3	5802.7	5408.7	5274.3	5267.1	5138.2	5116.4	5085.5	5096.4
37.5°	7507.6	7404.1	7057.3	6365.6	5746.5	5456.0	5445.0	5328.9	5239.9	5207.2	5268.9
40°	8319.2	8188.4	7901.6	7051.9	6243.9	5759.2	5724.6	5548.5	5446.8	5392.4	5523.1
42.5°	9107.1	8998.2	8753.1	7821.7	6857.6	6202.2	6125.9	5824.5	5748.2	5697.5	5933.4
45°	9804.3	9706.3	9526.6	8644.1	7576.6	6805.0	6730.5	6238.5	6214.9	6214.9	6556.2
47.5°	10370.8	10349.0	10158.4	9483.0	8424.5	7491.2	7362.4	6814.0	6877.5	6975.6	7440.4
50°	10999.1	10939.1	10735.7	10309.0	9421.3	8277.4	8172.1	7520.3	7758.1	8026.9	8718.6
52.5°	11576.3	11609.0	11382.1	11169.7	10546.9	9154.4	8969.2	8353.6	8867.5	9312.3	10216.5
55°	12170.1	12171.9	12108.3	12079.3	11727.1	10123.9	9920.6	9355.9	10172.9	10724.9	11963.1
57.5°	12727.5	12731.1	12825.5	13081.6	13096.0	11242.3	11011.8	10586.9	11623.6	12186.4	13764.2
60°	13225.0	13250.4	13508.2	14107.4	14299.8	12524.2	12306.3	12041.2	13123.3	13689.8	15657.9
62.5°	13392.0	13484.6	14058.4	14909.9	15489.1	14096.5	13882.2	13724.2	14699.2	15225.8	17241.1
65°	13108.7	13321.2	14430.6	15572.5	16712.7	15964.8	15752.3	15579.8	16337.0	16832.7	18541.1
67.5°	12413.4	12687.6	14408.7	16268.0	18198.0	18212.5	18014.6	17609.7	18092.7	18283.3	18964.1
70°	10581.4	10991.8	13139.7	16527.6	19902.8	21286.3	21095.7	20053.5	19844.7	18922.4	17773.1
72.5°	6817.7	7369.6	9675.4	14390.6	20282.3	24178.6	24167.8	22259.5	20398.5	17680.5	14254.5
75°	2487.4	2825.1	4495.4	9032.7	17025.0	24031.5	24102.4	21881.8	18621.0	13657.1	8880.2
77.5°	906.0	991.3	1467.0	3471.5	10470.7	19281.9	19429.0	17493.5	13254.1	6854.0	3518.6
80°	475.7	522.9	751.6	1347.2	4486.4	11451.1	11681.7	10396.3	6229.4	2064.4	1054.8
82.5°	263.2	285.1	421.2	731.6	2020.8	4896.7	5034.7	4107.0	2191.4	875.1	435.7
85°	141.7	150.7	197.9	399.4	987.7	1697.6	1735.7	1227.3	873.3	513.8	210.6
87.5°	41.7	50.8	65.4	127.1	386.7	381.3	390.3	243.3	345.0	259.6	69.0
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°	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9	3476.9
2.5°	3493.3	3487.8	3467.9	3458.8	3447.9	3446.0	3455.2	3456.9	3458.8	3460.6	3467.9
5°	3525.9	3507.8	3489.6	3478.7	3482.3	3484.2	3502.3	3515.0	3524.2	3531.3	3535.0
7.5°	3589.4	3575.0	3544.0	3542.3	3547.7	3564.0	3587.7	3616.7	3633.0	3645.7	3649.4
10°	3683.8	3656.7	3620.3	3625.8	3636.7	3660.3	3709.3	3732.9	3760.1	3783.8	3778.3
12.5°	3780.1	3756.5	3714.8	3718.4	3736.5	3778.3	3825.5	3854.5	3872.8	3890.9	3898.2
15°	3905.4	3863.6	3818.2	3818.2	3850.9	3896.3	3918.1	3941.7	3952.6	3972.6	3979.9
17.5°	4034.3	3979.9	3919.9	3916.3	3956.2	3978.0	3990.7	3994.3	3998.0	4019.7	4027.0
20°	4163.2	4103.3	4018.0	4010.7	4019.7	4016.2	4014.3	4010.7	4016.2	4043.4	4054.3
22.5°	4290.3	4221.4	4103.3	4070.6	4045.2	4010.7	4008.9	4007.0	4010.7	4038.0	4056.1
25°	4439.2	4355.6	4197.7	4099.7	4014.3	3967.2	3972.6	3974.4	3978.0	3999.9	4028.9
27.5°	4600.8	4508.2	4284.9	4090.6	3936.3	3903.6	3894.5	3899.9	3912.6	3947.2	3981.6
30°	4762.4	4653.4	4364.8	4054.3	3838.2	3792.8	3763.8	3776.5	3816.4	3850.9	3889.1
32.5°	4909.4	4800.5	4428.3	3974.4	3713.0	3642.1	3604.0	3620.3	3660.3	3673.0	3718.4
35°	5082.0	4958.4	4455.6	3847.3	3576.7	3467.9	3417.0	3393.4	3413.4	3400.6	3440.6
37.5°	5274.3	5145.5	4451.9	3680.3	3417.0	3291.7	3220.9	3132.0	3090.2	3046.6	3073.9
40°	5559.4	5374.3	4408.3	3478.7	3219.1	3104.7	2977.6	2827.0	2732.5	2647.2	2652.6
42.5°	5948.0	5691.9	4328.5	3257.2	2995.8	2888.7	2716.1	2540.1	2391.1	2249.6	2236.9
45°	6527.2	6107.8	4228.5	3021.2	2754.3	2649.0	2461.9	2264.1	2095.2	1913.7	1891.8
47.5°	7362.4	6666.9	4134.1	2752.4	2500.1	2403.8	2235.0	2051.6	1852.0	1675.8	1655.9
50°	8509.9	7469.5	4047.0	2491.1	2249.6	2176.9	2042.6	1855.6	1654.0	1512.4	1503.4
52.5°	9969.6	8560.6	4010.7	2238.7	2015.4	1988.1	1881.0	1706.7	1516.1	1396.3	1387.1
55°	11645.3	9866.0	4010.7	1997.2	1810.2	1819.3	1744.9	1583.2	1418.0	1310.9	1300.0
57.5°	13355.6	11187.9	3938.0	1773.9	1635.9	1674.0	1626.8	1485.2	1336.3	1225.6	1207.3
60°	14931.7	12295.4	3644.0	1570.5	1481.5	1541.5	1510.6	1389.0	1207.3	1114.8	1100.2
62.5°	16142.6	12919.9	3077.5	1409.0	1354.4	1423.4	1407.1	1261.9	1183.8	1145.6	1132.9
65°	16749.1	12818.2	2353.1	1265.5	1247.3	1354.4	1320.0	1314.5	1252.8	1209.2	1194.6
67.5°	16376.8	11943.1	1706.7	1160.2	1185.6	1290.9	1423.4	1445.2	1330.9	1245.5	1231.0
70°	14744.6	10359.9	1270.9	1060.4	1107.5	1292.7	1623.2	1512.4	1305.4	1205.6	1189.2
72.5°	11216.9	7725.4	985.8	955.0	1005.8	1301.8	1712.2	1481.5	1232.8	1332.7	1321.7
75°	6414.6	4241.2	791.6	826.2	878.7	1216.5	1666.8	1401.7	1176.5	1223.7	1223.7
77.5°	2445.6	1630.5	653.6	699.0	706.2	1062.1	1594.1	1396.3	1120.2	1093.0	996.8
80°	847.9	637.2	541.1	555.6	546.5	944.1	1528.8	1214.6	916.9	820.6	793.5
82.5°	346.8	317.8	428.4	410.3	388.6	733.5	1234.6	993.1	749.9	662.7	655.5
85°	150.7	201.5	283.2	248.8	225.1	508.4	989.5	840.6	633.7	546.5	544.7
87.5°	30.9	76.3	119.8	112.5	116.2	339.5	702.6	597.4	448.4	335.9	263.2
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)