

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: P963934

Luminaire Tested: **NAV-SB3B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14549.9 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

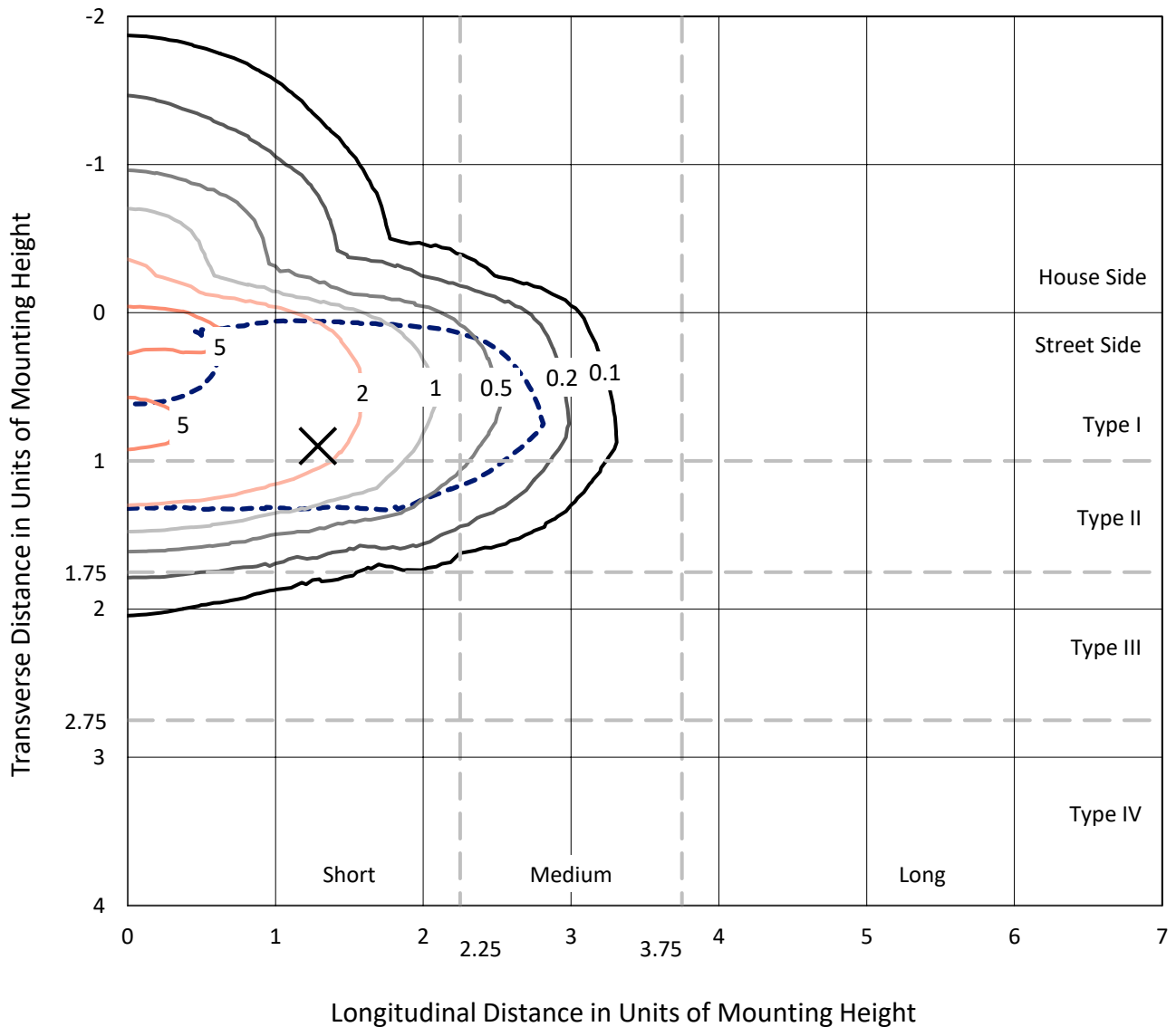
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

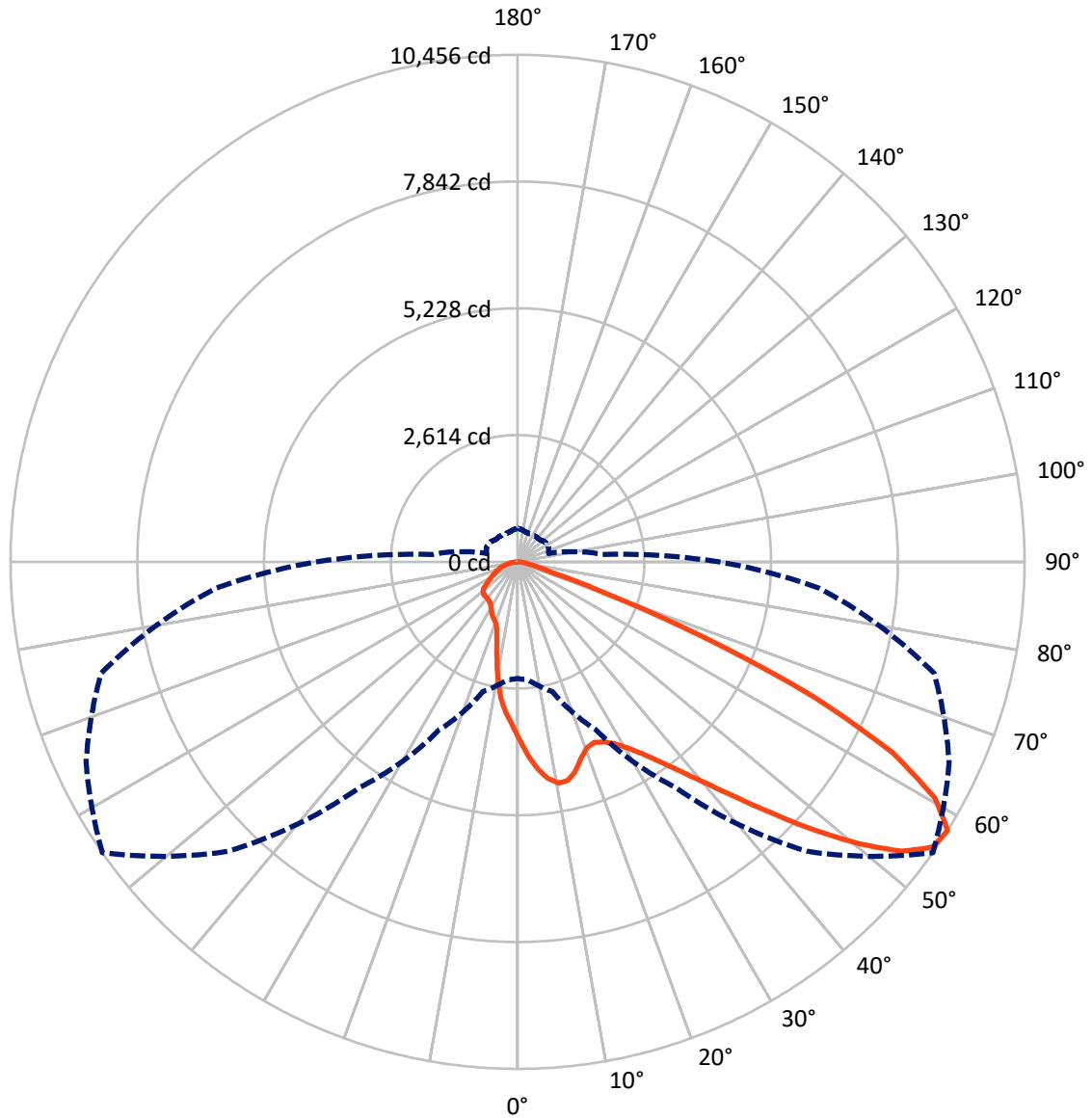
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.7	0.0	2632.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11917.2	0.0	11917.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	14549.9	0.0	14549.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	2.3
10°-20°	853.9	5.9
20°-30°	1362.6	9.4
30°-40°	2157.3	14.8
40°-50°	3301.9	22.7
50°-60°	3536.7	24.3
60°-70°	2224.9	15.3
70°-80°	658.0	4.5
80°-90°	116.3	0.8
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°	14549.9	100.0
0°-180°	14549.9	100.0

Coefficient of Utilization



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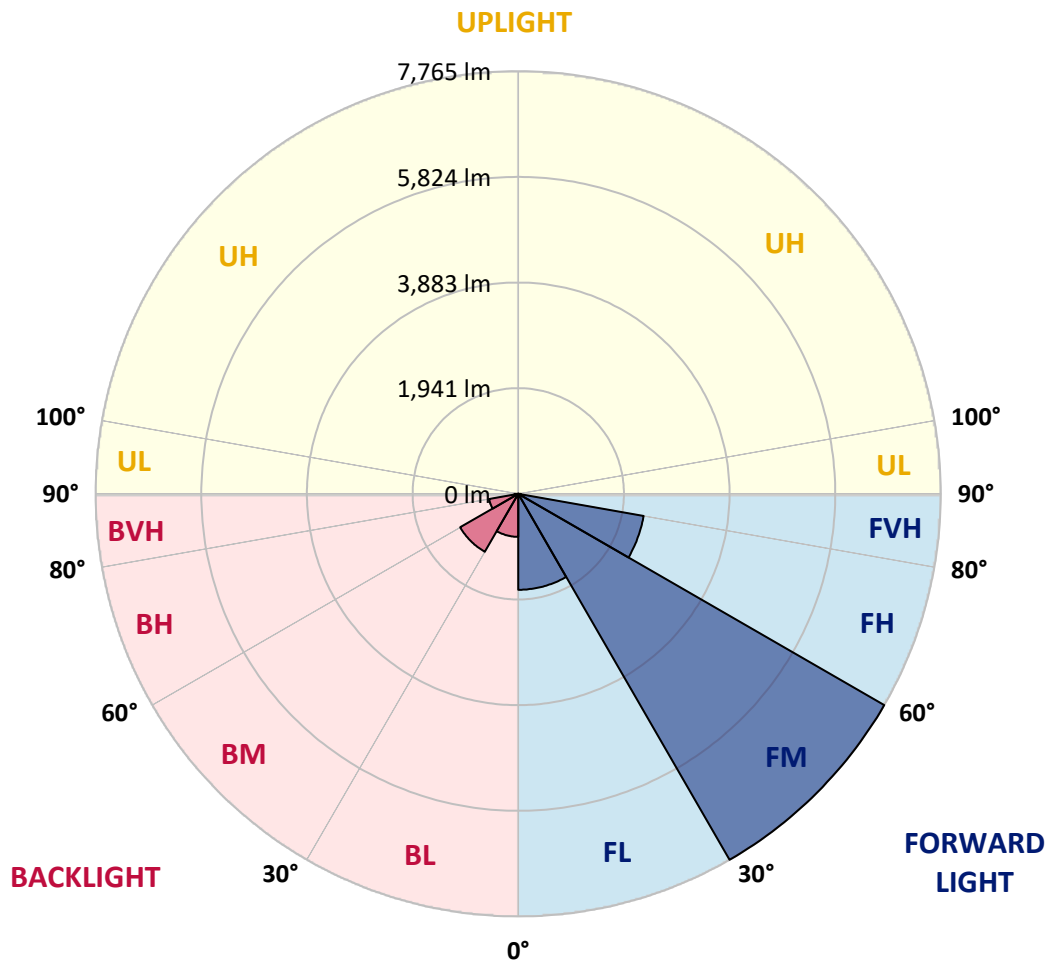
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.4	12.1			
FM (30°-60°)	7765.4	53.4			
FH (60°-80°)	2339.2	16.1			G2/5000
FVH (80°-90°)	49.1	0.3			G1/100
BL (0°-30°)	791.3	5.4	B2/1000		
BM (30°-60°)	1230.5	8.5	B2/2500		
BH (60°-80°)	543.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	67.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	4182.8	4179.7	4196.3	4139.9	4101.5	4049.7	3981.2	3894.0	3799.9	3700.7	3657.7
5°	4559.6	4533.3	4550.6	4508.5	4466.3	4388.1	4286.5	4144.4	3970.6	3772.8	3667.6
7.5°	4500.2	4482.1	4526.5	4564.1	4595.7	4586.0	4511.4	4362.5	4138.4	3851.0	3698.4
10°	4021.1	4000.8	4063.2	4193.3	4384.3	4550.6	4640.8	4548.3	4309.9	3936.8	3728.4
12.5°	3598.4	3588.5	3629.9	3735.2	3947.4	4266.3	4624.3	4710.8	4488.2	4038.4	3769.1
15°	3417.9	3405.8	3432.1	3485.5	3620.9	3918.0	4473.8	4822.1	4663.4	4155.7	3833.8
17.5°	3378.0	3364.5	3375.7	3403.5	3490.7	3717.2	4246.7	4877.1	4846.2	4286.5	3887.9
20°	3451.7	3440.4	3441.8	3440.4	3501.3	3681.1	4088.7	4855.9	5005.6	4406.9	3940.6
22.5°	3629.9	3611.2	3611.9	3572.0	3605.1	3744.2	4047.4	4799.6	5147.8	4512.3	3980.5
25°	3920.2	3886.4	3893.2	3791.7	3782.7	3885.7	4112.1	4755.9	5289.2	4596.4	3988.0
27.5°	4317.4	4279.1	4258.8	4107.6	4035.3	4086.5	4243.7	4771.0	5423.1	4669.4	3969.1
30°	4813.8	4767.2	4725.9	4511.4	4380.5	4361.8	4448.3	4870.3	5581.0	4746.2	3936.8
32.5°	5422.4	5368.1	5293.0	5008.7	4824.4	4725.9	4713.1	5047.0	5766.0	4843.9	3920.2
35°	6146.6	6076.0	5969.2	5601.3	5368.1	5166.6	5062.1	5302.0	6019.5	4991.3	3939.1
37.5°	6892.8	6813.1	6715.3	6277.5	5990.9	5693.9	5487.7	5648.0	6357.3	5191.4	3988.7
40°	7581.0	7491.5	7400.5	7010.9	6703.3	6345.3	6009.1	6085.7	6770.2	5430.7	4072.9
42.5°	7987.2	7921.0	7886.5	7675.8	7438.1	7074.9	6657.4	6604.7	7234.2	5705.9	4169.2
45°	7969.2	7942.1	8048.9	8136.1	8079.8	7878.2	7417.1	7178.6	7699.9	5944.3	4258.0
47.5°	7543.4	7561.5	7799.9	8290.3	8506.2	8611.5	8282.0	7742.0	8104.6	6122.6	4297.8
50°	6385.1	6400.1	6952.3	8009.8	8616.0	9209.4	9140.2	8291.8	8418.2	6231.7	4288.8
52.5°	5468.2	5478.0	5714.9	7177.9	8253.5	9510.4	9913.5	8810.1	8647.6	6261.7	4238.5
55°	4118.9	4152.7	4418.2	5631.5	7310.3	9271.9	10384.4	9344.1	8792.8	6264.8	4185.8
57.5°	2406.2	2443.0	2771.0	3822.5	5681.8	8440.8	10455.8	9818.0	8891.3	6240.7	4154.2
60°	1178.6	1194.4	1337.3	2009.0	3503.6	6839.4	9881.1	10047.4	8946.2	6227.9	4152.7
62.5°	794.3	792.0	798.1	991.4	1726.2	4394.2	8683.7	9645.8	8916.9	6179.0	4137.6
65°	683.0	674.7	652.1	695.8	894.3	2009.8	6709.2	8446.8	8693.4	6056.4	4034.6
67.5°	590.4	591.2	591.9	578.4	638.6	927.4	4100.0	6653.6	7891.7	5475.8	3637.4
70°	488.9	495.7	498.7	498.7	520.5	608.5	1750.3	4560.3	6224.9	4293.3	2929.7
72.5°	445.3	431.0	432.4	425.0	425.0	463.3	704.8	2585.2	3921.8	2415.2	1787.9
75°	363.3	372.3	373.8	368.6	351.3	353.5	418.2	1084.7	1678.0	1001.8	883.8
77.5°	313.6	313.6	316.6	312.9	299.4	264.8	279.0	420.5	570.9	410.7	441.6
80°	251.9	251.2	264.0	271.5	250.5	195.6	178.2	232.4	253.5	180.5	229.4
82.5°	122.6	130.2	181.2	206.8	190.3	141.4	109.1	144.4	135.4	79.7	103.0
85°	71.4	67.6	81.3	115.1	109.1	78.2	52.7	75.2	70.7	40.6	41.4
87.5°	22.5	21.0	16.5	39.2	31.6	21.8	14.2	21.8	19.6	9.0	9.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3604.3	3515.6	3427.6	3347.1	3298.2	3266.7	3235.0	3199.7	3186.1	3165.8
5°	3568.2	3396.7	3244.0	3112.4	2992.9	2898.8	2804.1	2727.3	2692.8	2716.0
7.5°	3547.2	3299.0	3063.5	2822.1	2589.7	2403.9	2242.2	2128.6	2077.5	2090.3
10°	3528.4	3188.4	2829.6	2448.3	2114.4	1884.2	1718.7	1632.2	1599.8	1606.6
12.5°	3511.1	3064.3	2547.5	2045.9	1690.8	1538.9	1491.6	1492.3	1498.3	1502.9
15°	3508.1	2914.6	2232.4	1693.9	1462.2	1452.4	1503.6	1536.0	1553.2	1558.5
17.5°	3503.6	2735.6	1911.2	1454.0	1406.5	1472.7	1520.1	1541.2	1554.7	1555.4
20°	3485.5	2508.5	1614.9	1339.6	1394.5	1451.7	1481.0	1497.5	1508.8	1512.6
22.5°	3429.9	2255.7	1384.0	1288.4	1346.3	1392.3	1426.8	1445.7	1452.4	1456.9
25°	3329.8	1972.9	1224.6	1239.5	1279.4	1337.3	1365.2	1368.9	1366.6	1373.4
27.5°	3198.9	1669.8	1125.2	1173.4	1224.6	1274.2	1289.2	1287.0	1282.5	1290.0
30°	3041.0	1397.5	1062.0	1098.9	1168.9	1214.0	1227.5	1222.3	1213.2	1221.5
32.5°	2874.0	1174.9	1010.1	1047.0	1123.0	1167.4	1180.9	1175.7	1168.9	1175.7
35°	2718.3	1019.2	962.1	1012.4	1086.9	1130.5	1147.8	1148.5	1148.5	1156.8
37.5°	2575.4	928.1	922.2	990.6	1062.0	1101.2	1126.0	1127.5	1095.1	1097.4
40°	2443.0	889.8	904.0	976.3	1038.0	1075.6	1077.1	992.8	933.5	931.9
42.5°	2334.7	882.3	909.4	974.8	1020.7	1022.2	916.1	850.6	834.1	834.9
45°	2233.2	880.1	921.4	974.8	995.1	883.0	811.6	794.3	795.8	801.8
47.5°	2119.6	871.0	923.6	961.2	921.4	785.3	764.2	756.7	753.7	755.2
50°	1995.5	838.7	895.0	934.2	795.0	743.1	716.8	714.5	718.3	720.6
52.5°	1864.6	786.0	846.1	885.3	737.1	706.3	676.9	682.2	698.7	704.1
55°	1778.9	724.4	781.5	787.5	696.5	671.7	646.9	658.9	689.7	699.5
57.5°	1756.3	658.9	707.8	701.0	644.6	641.5	626.6	637.0	676.2	690.4
60°	1749.6	600.2	635.6	630.3	594.2	608.5	604.8	610.0	623.5	628.0
62.5°	1696.9	553.6	570.9	563.3	549.1	573.9	582.9	571.6	582.2	587.4
65°	1563.0	516.0	507.7	502.5	508.5	531.1	549.1	526.5	536.3	551.3
67.5°	1341.8	464.8	442.3	448.3	467.1	479.1	502.5	476.8	485.1	510.8
70°	1085.4	400.2	379.9	397.2	415.2	440.0	443.8	426.5	446.1	474.6
72.5°	767.9	334.7	320.4	355.8	361.8	394.1	385.8	377.6	404.7	414.4
75°	532.5	270.0	261.8	288.8	310.7	338.5	332.4	342.2	399.4	404.0
77.5°	336.9	209.8	204.6	221.9	251.9	282.8	292.6	404.0	682.2	709.3
80°	195.6	156.4	150.5	164.0	190.3	218.8	282.1	495.7	449.8	444.5
82.5°	109.1	107.5	100.0	103.8	127.1	158.0	398.6	349.0	283.5	292.6
85°	51.1	63.1	54.1	51.9	71.4	185.0	266.3	199.4	132.4	129.4
87.5°	13.5	12.0	12.0	13.5	30.1	159.5	106.1	85.0	50.4	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)