

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: P885121

Luminaire Tested: **NAV-SB6B-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33253 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

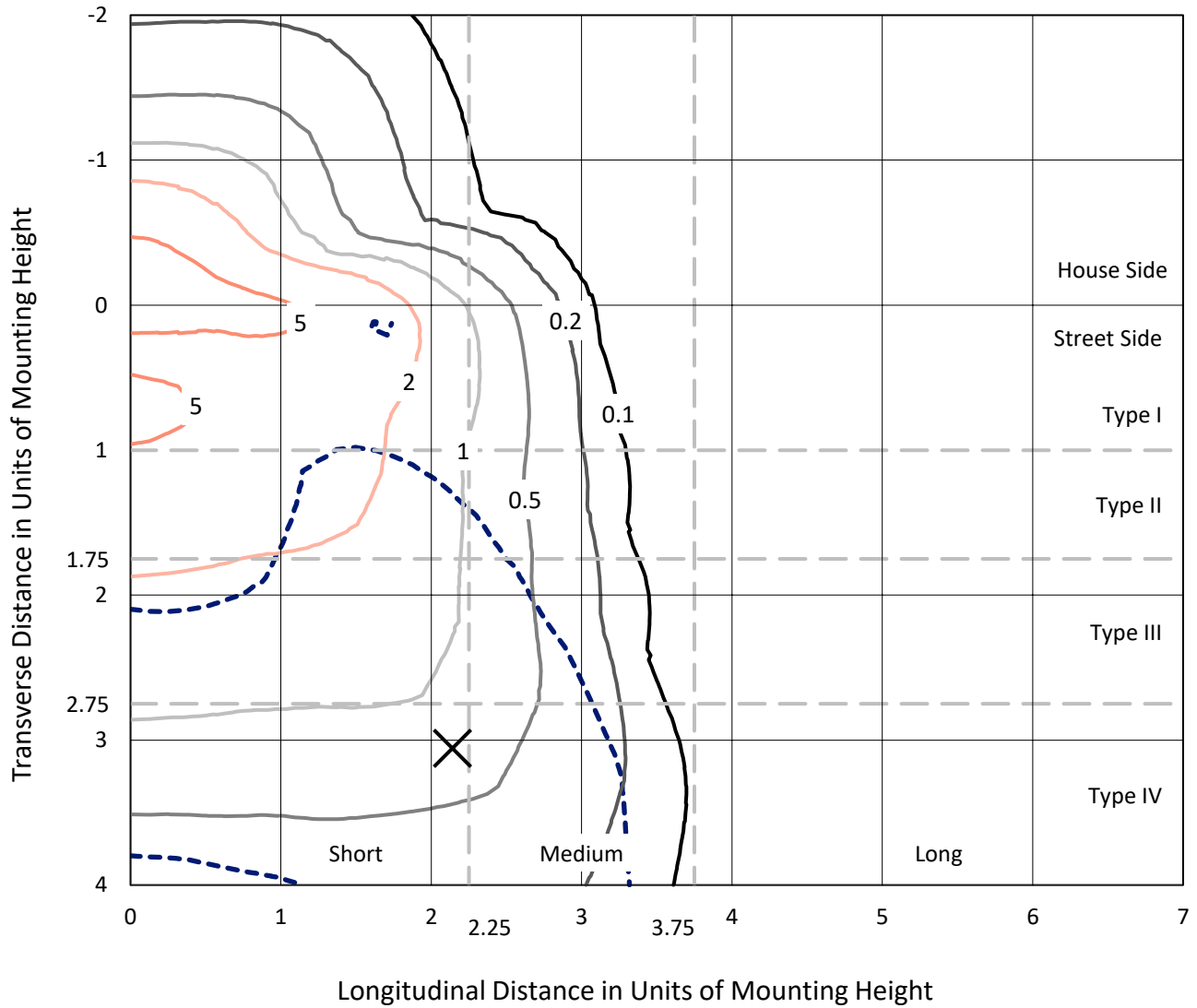
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

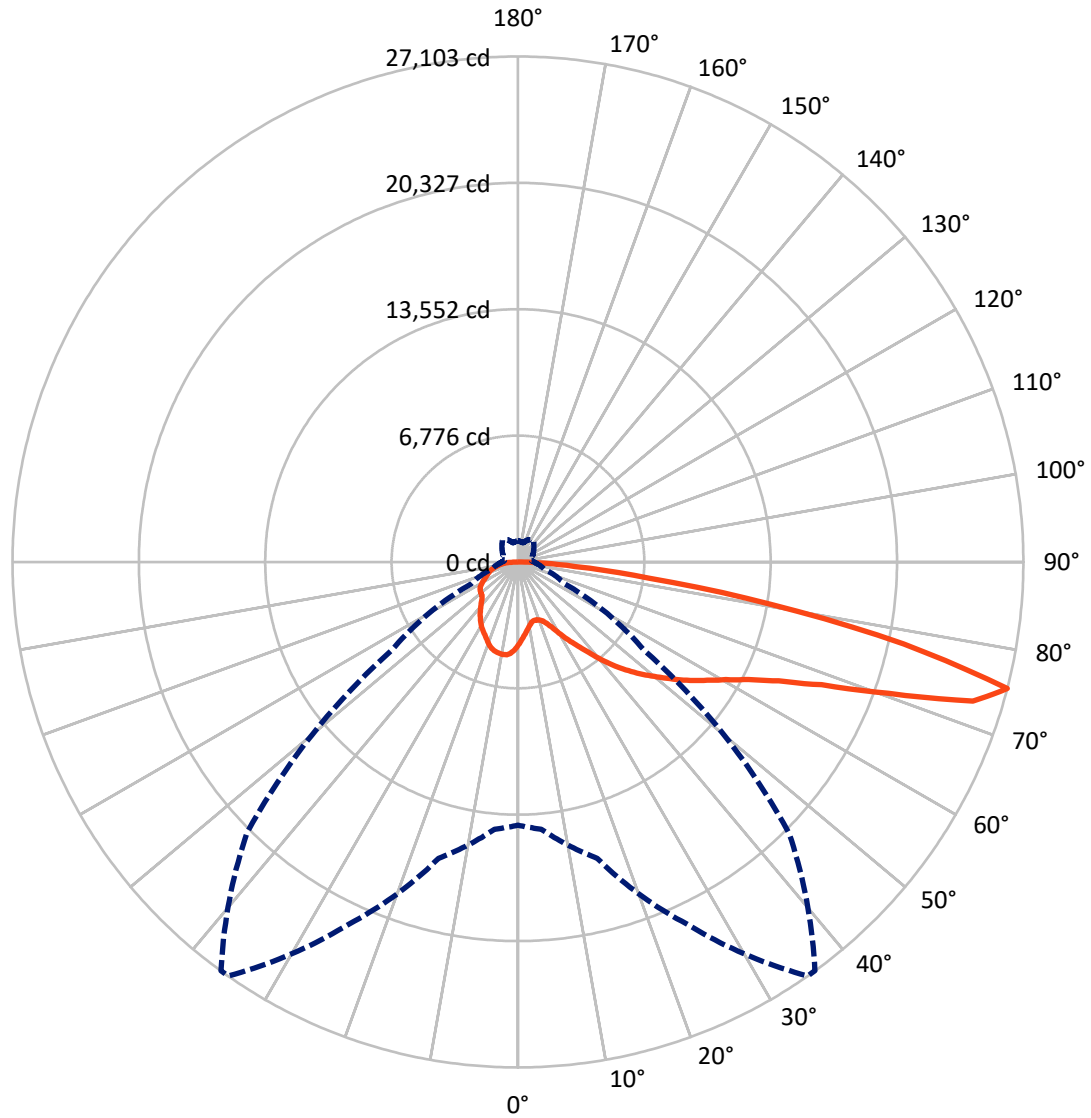
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7913.4	0.0	7913.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25339.6	0.0	25339.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	33253.0	0.0	33253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.5	1.3
10°-20°	1210.2	3.6
20°-30°	2032.2	6.1
30°-40°	3158.3	9.5
40°-50°	4687.7	14.1
50°-60°	6471.6	19.5
60°-70°	7851.6	23.6
70°-80°	6488.7	19.5
80°-90°	933.3	2.8
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°	33253.0	100.0
0°-180°	33253.0	100.0

Coefficient of Utilization



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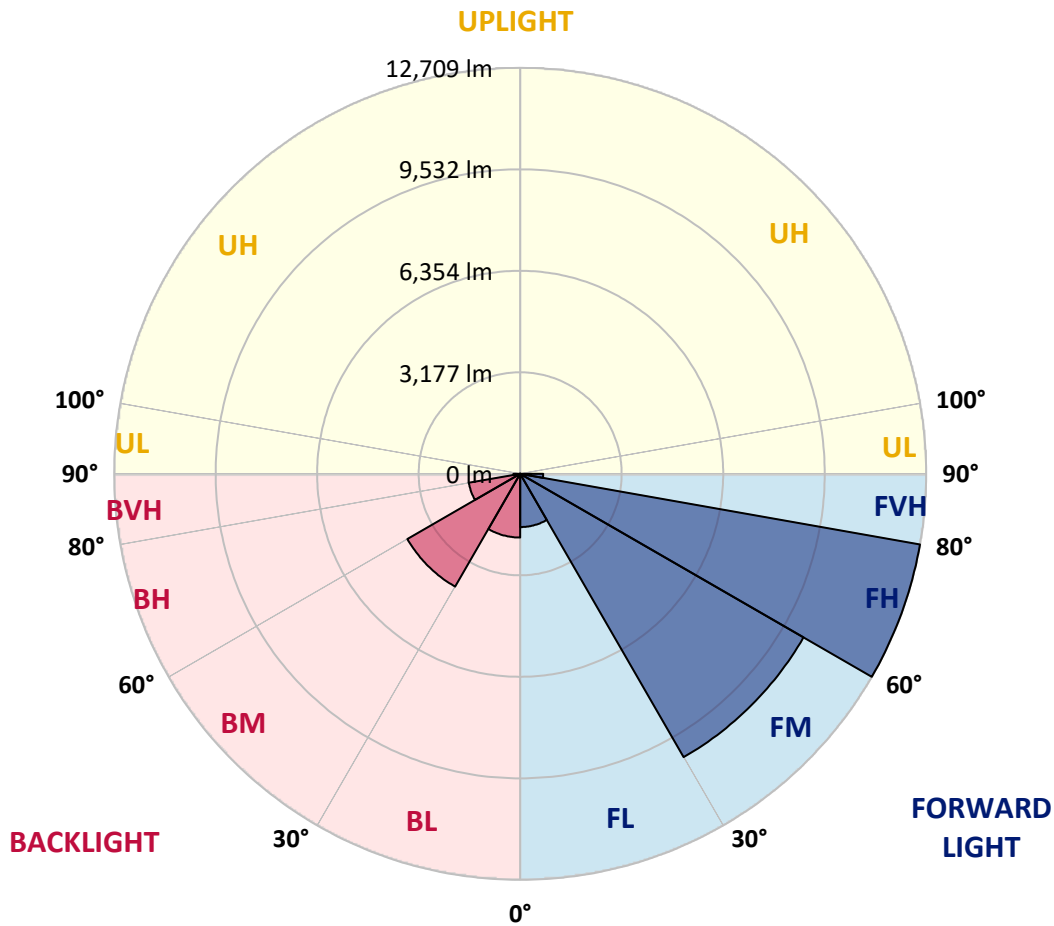
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.6	5.0			
FM (30°-60°)	10240.1	30.8			
FH (60°-80°)	12708.8	38.2			G5
FVH (80°-90°)	723.1	2.2			G4/750
BL (0°-30°)	1994.3	6.0	B3/2500		
BM (30°-60°)	4077.5	12.3	B3/5000		
BH (60°-80°)	1631.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	210.2	0.6			G2/225
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°	36°	45°	55°	65°	75°	85°
0°	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2
2.5°	4086.0	4111.2	4122.0	4116.6	4143.6	4140.0	4177.7	4224.5	4289.2	4352.1	4443.8
5°	3771.5	3798.4	3821.8	3843.4	3895.5	3911.7	3971.0	4060.9	4179.5	4300.0	4451.0
7.5°	3478.4	3501.8	3537.8	3577.3	3665.4	3681.6	3780.4	3920.7	4086.0	4262.2	4470.7
10°	3239.4	3262.7	3300.5	3345.4	3455.1	3474.8	3600.7	3787.6	4003.3	4226.3	4492.3
12.5°	3136.9	3144.1	3165.6	3210.6	3305.9	3318.4	3456.9	3670.8	3922.5	4199.3	4524.7
15°	3131.5	3145.9	3147.7	3171.0	3250.1	3255.5	3383.2	3595.3	3872.1	4193.9	4573.2
17.5°	3185.4	3196.2	3180.0	3194.4	3260.9	3269.9	3370.6	3559.3	3855.9	4217.3	4655.9
20°	3329.2	3338.2	3289.7	3269.9	3318.4	3325.6	3424.5	3582.7	3872.1	4265.8	4769.1
22.5°	3634.8	3640.2	3521.6	3440.7	3444.3	3447.9	3534.2	3678.0	3935.0	4353.9	4913.0
25°	4111.2	4107.6	3918.9	3762.5	3672.6	3652.8	3710.3	3832.6	4041.1	4470.7	5098.1
27.5°	4668.5	4641.5	4452.8	4219.1	4023.1	3994.4	3981.8	4033.9	4192.1	4625.3	5324.6
30°	5297.7	5272.5	5069.4	4763.8	4492.3	4445.6	4326.9	4300.0	4416.8	4835.7	5639.2
32.5°	5987.9	5971.8	5729.1	5358.8	4995.6	4941.7	4742.2	4670.3	4762.0	5153.8	6077.8
35°	6566.8	6552.4	6351.1	5970.0	5526.0	5459.4	5256.3	5175.4	5222.1	5561.9	6651.3
37.5°	7089.9	7082.7	6910.1	6609.9	6151.5	6070.6	5842.3	5815.4	5806.4	6099.4	7347.0
40°	7575.3	7557.3	7377.5	7219.3	6879.6	6805.9	6604.5	6581.2	6512.9	6760.9	8134.3
42.5°	8112.8	8066.0	7805.4	7731.7	7640.0	7578.9	7458.4	7462.0	7311.0	7507.0	8968.4
45°	8551.4	8524.4	8256.6	8213.4	8312.3	8287.1	8391.4	8418.4	8125.3	8288.9	9834.9
47.5°	9022.4	8997.2	8770.7	8740.1	9008.0	9015.2	9383.7	9392.7	8919.9	9101.5	10703.2
50°	9603.0	9567.1	9342.3	9380.1	9680.3	9707.3	10381.4	10320.3	9651.5	9926.6	11564.2
52.5°	9985.9	10007.5	9958.9	10020.1	10429.9	10455.1	11362.9	11206.5	10376.0	10740.9	12409.1
55°	10268.1	10311.3	10462.3	10602.5	11220.9	11246.0	12288.7	12049.6	10976.4	11495.9	13203.7
57.5°	10631.3	10570.1	10852.4	11125.6	11972.3	12038.8	13189.3	12862.1	11508.5	12146.7	13748.4
60°	11152.6	11109.4	11328.7	11733.2	12813.6	12919.7	14142.0	13593.8	11898.6	12662.6	13854.4
62.5°	12209.6	12101.7	12135.9	12493.6	13874.2	14014.4	15217.0	14231.9	12092.7	12863.9	13286.4
65°	13789.7	13604.6	13432.0	13680.1	15368.0	15506.5	16430.4	14733.5	12020.8	12473.8	11778.1
67.5°	15779.7	15596.3	15384.2	15617.9	17568.4	17678.0	17927.9	15015.7	11454.6	10971.0	9112.2
70°	17420.9	17352.6	17606.1	18567.8	21082.7	21086.3	19847.8	14782.0	9903.2	7778.4	5272.5
72.5°	17203.4	17162.1	18497.7	21471.0	25512.1	25416.9	21665.2	13013.1	6671.0	3509.0	1975.6
75°	14113.3	14381.1	16450.2	21418.9	27103.0	27090.5	20552.4	8272.7	2759.4	1454.3	1021.1
77.5°	7568.1	7992.3	10679.8	15813.9	21158.2	21476.4	14449.4	2894.2	1184.6	931.2	706.5
80°	2468.2	2838.5	4256.8	8051.6	13748.4	13689.0	6192.9	1136.1	810.7	659.7	489.0
82.5°	1048.0	1091.2	1901.9	3802.0	7055.7	6946.1	1972.0	652.5	569.9	451.2	302.0
85°	409.9	458.4	839.5	1758.1	3056.0	2989.5	711.9	323.6	364.9	294.8	179.8
87.5°	134.8	163.6	300.2	602.2	951.0	916.8	174.4	111.5	158.2	134.8	64.7
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°	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2	4431.2
2.5°	4468.9	4497.7	4531.9	4582.2	4625.3	4661.3	4699.0	4722.4	4731.4	4758.4	4756.6
5°	4501.3	4564.2	4648.7	4731.4	4812.3	4860.8	4904.0	4925.5	4945.3	4959.7	4963.3
7.5°	4555.2	4636.1	4769.1	4877.0	4945.3	4984.9	5013.6	5006.4	5013.6	5017.2	5022.6
10°	4602.0	4715.2	4873.4	4975.9	5028.0	5029.8	5022.6	4997.4	4984.9	4986.7	4990.3
12.5°	4657.7	4783.5	4954.3	5040.6	5055.0	5015.4	4984.9	4941.7	4925.5	4918.3	4914.8
15°	4733.2	4877.0	5042.4	5074.7	5038.8	4988.5	4936.3	4866.2	4830.3	4801.5	4810.5
17.5°	4824.9	4983.1	5110.7	5087.3	5010.0	4927.3	4842.8	4736.8	4663.1	4632.5	4634.3
20°	4952.5	5094.5	5162.8	5060.4	4943.5	4817.7	4673.9	4544.4	4476.1	4445.6	4442.0
22.5°	5107.1	5243.7	5213.2	5013.6	4848.2	4646.9	4467.1	4371.9	4337.7	4316.1	4319.7
25°	5292.3	5409.1	5249.1	4945.3	4691.8	4420.4	4282.0	4251.4	4235.2	4219.1	4219.1
27.5°	5533.1	5596.1	5276.1	4844.6	4447.4	4179.5	4129.2	4134.6	4129.2	4102.2	4107.6
30°	5851.3	5838.7	5301.2	4681.1	4166.9	3962.0	3965.6	3989.0	3992.6	3974.6	3983.6
32.5°	6270.2	6142.5	5313.8	4468.9	3899.1	3771.5	3775.0	3800.2	3818.2	3787.6	3802.0
35°	6777.1	6496.7	5294.1	4202.9	3692.4	3589.9	3562.9	3570.1	3575.5	3546.7	3566.5
37.5°	7368.5	6894.0	5206.0	3908.1	3521.6	3411.9	3354.4	3305.9	3277.1	3250.1	3268.1
40°	8017.5	7327.2	5044.2	3620.5	3331.0	3223.2	3136.9	3045.2	2948.1	2912.2	2928.4
42.5°	8697.0	7773.0	4848.2	3345.4	3111.7	3023.6	2932.0	2798.9	2653.3	2579.6	2588.6
45°	9401.7	8229.6	4655.9	3074.0	2887.0	2849.3	2743.2	2583.2	2425.0	2331.5	2324.4
47.5°	10092.0	8661.0	4373.7	2800.7	2676.7	2718.0	2635.3	2487.9	2311.8	2164.4	2148.2
50°	10751.7	9065.5	3911.7	2523.9	2505.9	2678.5	2599.4	2387.3	2185.9	1997.2	1981.0
52.5°	11406.0	9392.7	3320.2	2272.2	2414.2	2667.7	2552.7	2319.0	2072.7	1874.9	1853.4
55°	11961.5	9561.7	2750.4	2056.5	2281.2	2576.0	2496.9	2238.1	1912.7	1702.4	1684.4
57.5°	12277.9	9425.0	2275.8	1844.4	2097.8	2425.0	2401.6	2065.5	1722.1	1560.4	1538.8
60°	12141.3	8871.4	1887.5	1659.2	1923.5	2261.4	2236.3	1894.7	1576.5	1423.7	1402.2
62.5°	11388.1	7816.1	1580.1	1497.4	1765.3	2094.3	2070.9	1763.5	1465.1	1317.7	1294.3
65°	9870.9	6358.3	1341.0	1362.6	1605.3	1892.9	1927.1	1653.8	1377.0	1233.2	1209.8
67.5°	7528.5	4605.6	1154.1	1245.8	1448.9	1695.2	1794.0	1574.7	1303.3	1166.7	1145.1
70°	4291.0	2615.6	995.9	1132.5	1310.5	1511.8	1691.6	1511.8	1224.2	1110.9	1096.6
72.5°	1626.9	1200.8	861.1	1019.3	1177.5	1357.2	1578.3	1412.9	1132.5	1048.0	1033.6
75°	868.3	731.6	724.4	886.2	1024.7	1206.2	1436.3	1315.9	1064.2	1107.3	1143.3
77.5°	591.4	517.7	605.8	758.6	857.5	1039.0	1285.3	1168.5	922.2	918.6	846.7
80°	409.9	366.7	492.6	611.2	663.3	873.7	1121.7	1003.1	751.4	701.1	670.5
82.5°	246.3	239.1	368.5	456.6	469.2	674.1	929.4	841.3	614.8	535.7	539.3
85°	134.8	142.0	235.5	267.8	273.2	471.0	728.0	650.7	472.8	397.3	400.9
87.5°	37.8	48.5	86.3	106.1	131.2	244.5	433.2	386.5	237.3	165.4	165.4
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)