

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: P970808

Luminaire Tested: **NAV-SB6C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29115.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

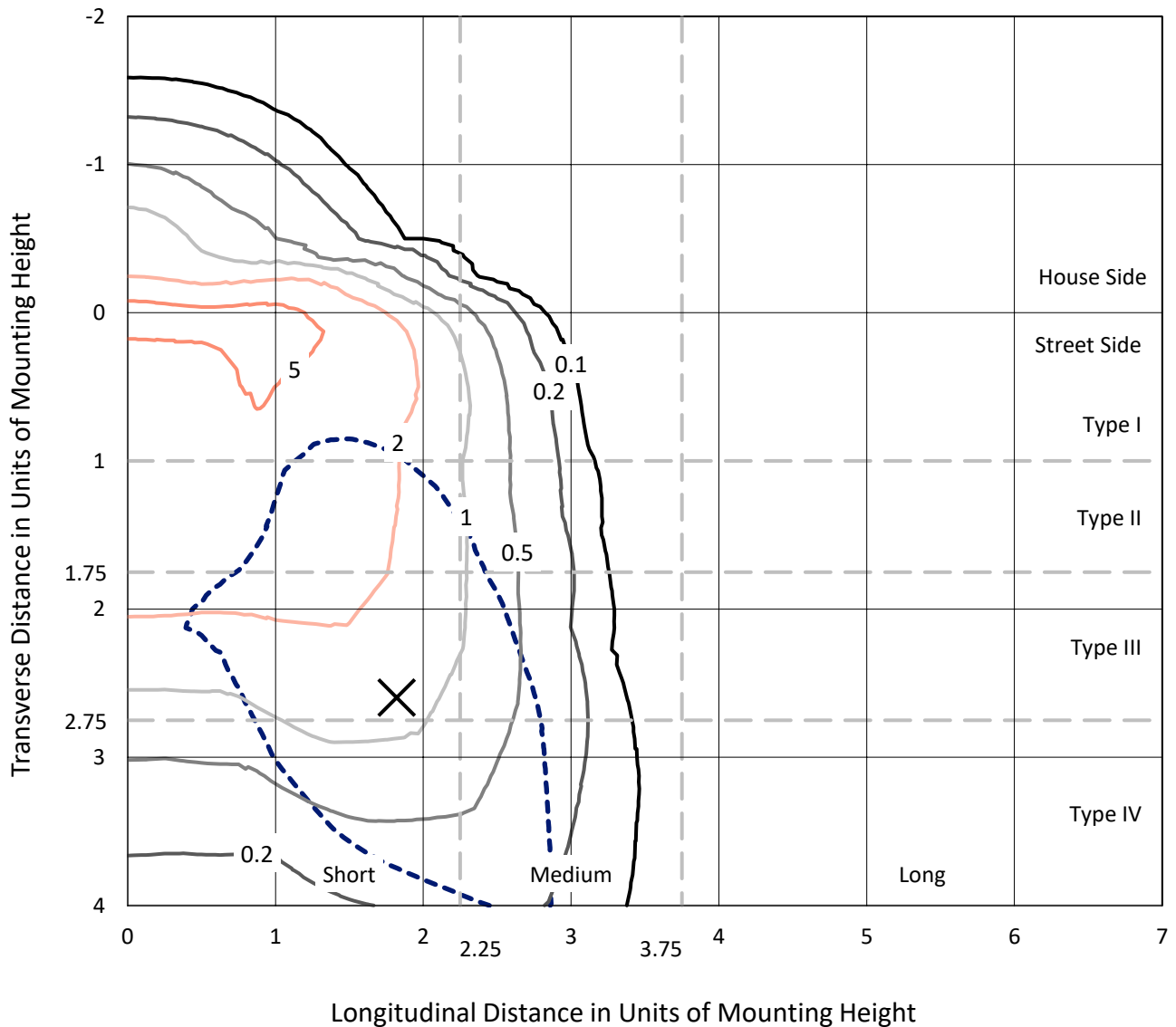
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

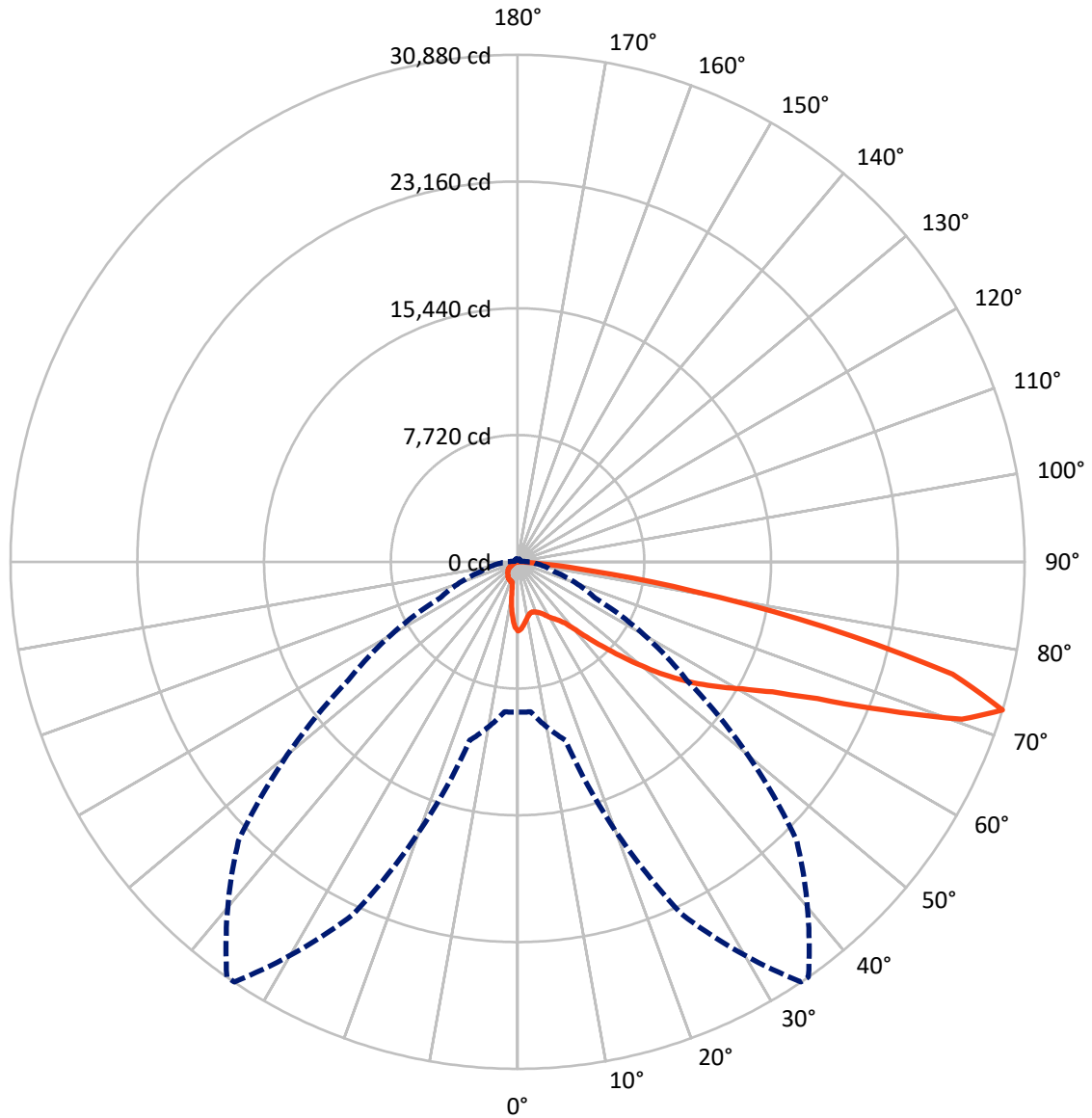
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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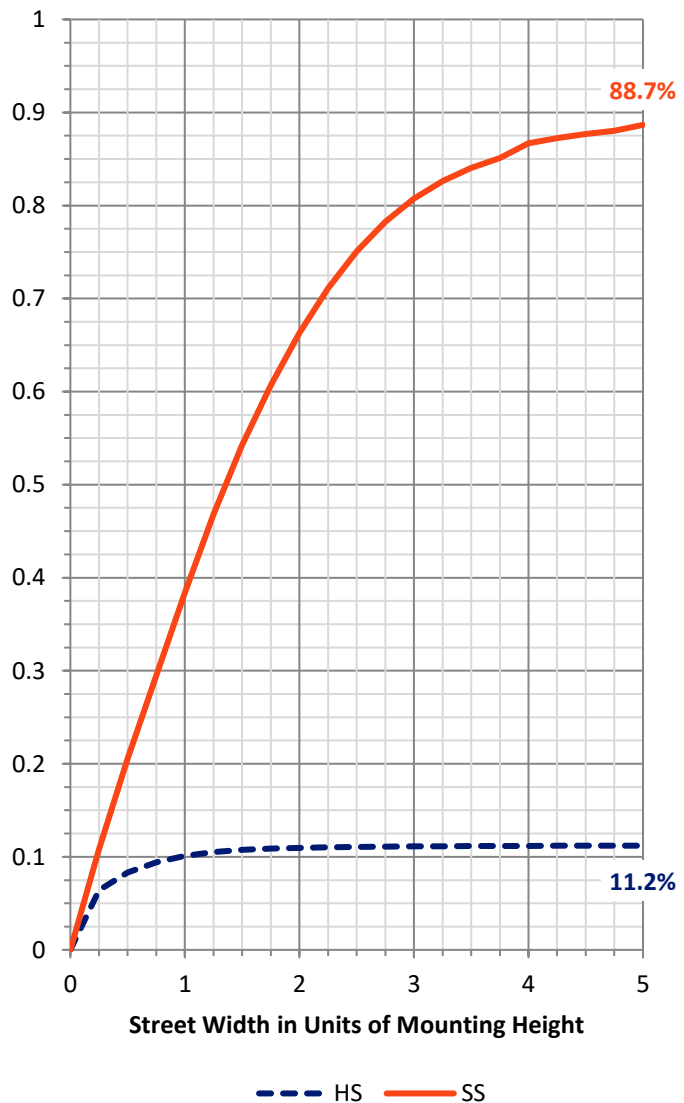
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3276.8	0.0	3276.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25838.3	0.0	25838.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	29115.1	0.0	29115.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	1.2
10°-20°	811.2	2.8
20°-30°	1317.7	4.5
30°-40°	2198.6	7.6
40°-50°	4159.9	14.3
50°-60°	6610.1	22.7
60°-70°	8177.1	28.1
70°-80°	5082.9	17.5
80°-90°	410.8	1.4
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°	29115.1	100.0
0°-180°	29115.1	100.0

Coefficient of Utilization

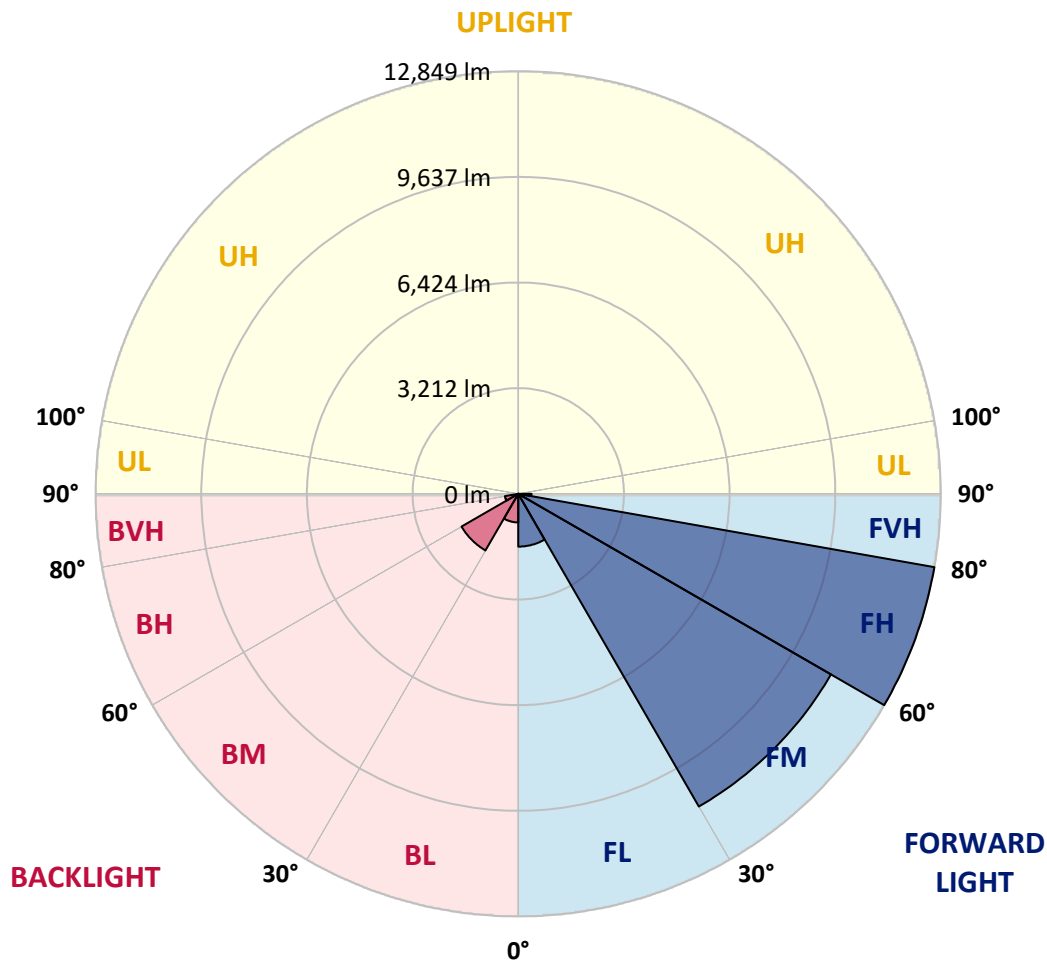


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.0	5.5			
FM (30°-60°)	10979.3	37.7			
FH (60°-80°)	12848.9	44.1			G5
FVH (80°-90°)	405.2	1.4			G3/500
BL (0°-30°)	870.7	3.0	B2/1000		
BM (30°-60°)	1989.3	6.8	B2/2500		
BH (60°-80°)	411.2	1.4	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	4032.0	4066.2	4072.5	4083.2	4083.2	4096.0	4117.3	4147.3	4196.2	4221.9	4239.0
5°	3716.2	3741.9	3773.8	3799.5	3848.6	3854.9	3938.2	4019.2	4132.3	4217.7	4277.3
7.5°	3398.4	3428.3	3471.0	3532.9	3596.8	3616.0	3741.9	3878.4	4057.7	4217.7	4317.9
10°	3174.4	3176.6	3214.9	3276.8	3379.2	3402.7	3556.2	3750.4	3974.4	4192.0	4356.2
12.5°	3048.6	3063.5	3080.5	3127.5	3225.6	3240.5	3404.8	3633.1	3891.2	4177.1	4401.0
15°	3048.6	3059.2	3069.9	3093.3	3172.3	3185.1	3330.1	3558.4	3848.6	4183.5	4473.6
17.5°	3080.5	3097.7	3089.0	3116.8	3200.0	3208.6	3336.6	3537.1	3846.4	4224.0	4584.5
20°	3157.3	3170.1	3153.1	3170.1	3253.4	3270.5	3402.7	3577.7	3882.7	4294.4	4723.2
22.5°	3279.0	3285.3	3244.8	3257.7	3342.9	3364.3	3517.9	3692.9	3970.1	4407.5	4908.8
25°	3432.5	3445.3	3383.5	3398.4	3479.5	3505.1	3682.1	3865.6	4108.8	4563.2	5145.6
27.5°	3609.6	3616.0	3562.7	3560.5	3665.1	3701.4	3880.5	4079.0	4294.4	4759.5	5444.3
30°	3812.3	3831.4	3780.3	3771.8	3904.0	3933.8	4111.0	4341.4	4567.5	5053.9	5868.8
32.5°	3972.3	3987.2	3957.3	3978.6	4113.1	4136.6	4390.4	4712.5	4996.3	5472.1	6446.9
35°	4202.7	4211.2	4142.9	4181.4	4334.9	4394.7	4772.3	5233.1	5536.0	5996.9	7202.2
37.5°	5036.8	5036.8	4746.7	4556.8	4704.0	4757.3	5294.9	5888.0	6201.7	6700.8	8153.7
40°	6191.0	6171.7	5747.3	5359.0	5339.7	5444.3	6039.5	6713.6	7061.3	7545.6	9224.6
42.5°	7421.9	7392.0	6813.9	6429.9	6365.9	6402.2	6899.3	7731.3	8085.4	8576.1	10376.6
45°	8514.2	8505.7	7976.6	7460.4	7345.2	7460.4	7972.3	8921.7	9175.5	9691.8	11526.4
47.5°	9429.4	9429.4	9043.3	8706.1	8646.5	8714.8	9425.1	10242.2	10218.7	10880.1	12646.4
50°	10483.3	10474.7	10107.8	9962.7	10024.6	10120.5	11097.7	11633.1	11298.2	12047.0	13647.1
52.5°	11221.4	11272.6	11146.8	11123.3	11439.0	11605.4	12795.8	12994.2	12264.6	13154.2	14395.8
55°	11805.9	11865.7	12010.7	12175.1	12783.0	13000.6	14440.6	14284.9	13073.2	14114.2	14826.7
57.5°	12633.6	12548.4	12772.3	13096.6	14080.1	14342.5	16034.2	15503.0	13723.8	14892.8	14873.7
60°	13638.4	13651.3	13689.7	14099.3	15375.0	15712.1	17604.4	16655.0	14141.9	15370.8	14353.2
62.5°	14846.0	14865.2	14944.1	15573.4	17113.7	17431.6	19276.9	17597.9	14333.9	15236.3	13009.1
65°	14762.8	14843.8	15724.9	17877.4	19756.9	20070.5	21228.9	18259.4	14043.8	14007.5	10592.0
67.5°	13448.6	13580.8	15055.0	20629.5	23742.0	24091.9	23588.4	18389.4	12791.6	10892.9	6909.9
70°	11724.9	11771.8	13544.7	23104.1	28356.4	28710.6	25700.4	16958.0	9706.8	6075.8	3095.5
72.5°	9156.3	9167.0	11247.0	23678.0	30861.0	30880.2	24042.8	12588.8	5220.3	2333.9	1075.2
75°	6540.8	6476.9	7532.8	19202.2	27151.1	27368.7	18024.6	5905.1	1994.6	1102.9	535.5
77.5°	3507.2	3577.7	4262.5	11387.7	18756.4	19127.6	9834.8	1702.4	1015.5	750.9	354.1
80°	1083.7	1143.5	1747.2	5213.9	10624.0	10848.1	3645.9	757.4	708.3	535.5	232.6
82.5°	341.3	354.1	815.0	2190.9	4409.7	4512.0	1056.0	428.8	484.3	354.1	136.5
85°	98.1	100.2	362.6	817.0	1090.2	1111.5	296.5	166.4	277.4	219.8	70.4
87.5°	10.7	34.1	136.5	136.5	96.0	93.9	32.0	36.3	78.9	27.8	12.8
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°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	4228.3	4230.4	4202.7	4155.8	4104.5	4061.9	4008.6	3965.9	3936.0	3927.5	3942.5
5°	4258.2	4243.2	4164.3	4021.4	3850.7	3703.5	3539.2	3409.0	3323.8	3287.5	3300.3
7.5°	4303.0	4260.3	4087.5	3805.9	3479.5	3189.4	2894.9	2666.6	2521.6	2449.0	2459.8
10°	4341.4	4256.0	3959.5	3494.4	2995.3	2555.7	2159.0	1883.7	1730.1	1657.6	1659.8
12.5°	4377.7	4253.9	3793.1	3125.3	2449.0	1911.5	1542.4	1405.9	1363.2	1348.3	1344.0
15°	4445.9	4260.3	3584.0	2702.9	1905.1	1444.2	1309.8	1307.7	1316.3	1312.0	1309.8
17.5°	4539.7	4266.7	3347.2	2254.9	1469.8	1273.6	1267.2	1286.4	1299.2	1292.8	1290.7
20°	4661.4	4292.3	3095.5	1811.2	1262.9	1230.9	1245.9	1262.9	1273.6	1262.9	1260.9
22.5°	4832.1	4337.1	2820.3	1455.0	1196.8	1205.3	1218.1	1237.4	1248.0	1233.1	1230.9
25°	5041.1	4407.5	2549.4	1265.1	1164.8	1175.5	1194.6	1216.0	1228.8	1213.9	1211.8
27.5°	5312.1	4520.6	2299.8	1222.4	1132.8	1139.2	1167.0	1198.9	1216.0	1196.8	1196.8
30°	5704.5	4706.2	2084.2	1241.6	1113.6	1098.7	1137.0	1181.8	1201.1	1184.0	1181.8
32.5°	6225.1	4968.6	1952.0	1271.5	1105.1	1051.8	1088.0	1145.6	1177.6	1167.0	1167.0
35°	6907.8	5367.5	1900.8	1305.6	1098.7	1002.7	1028.3	1090.2	1145.6	1156.3	1156.3
37.5°	7735.5	5922.1	1915.7	1320.5	1079.4	962.2	975.0	1028.3	1100.8	1135.0	1143.5
40°	8676.3	6568.6	2001.1	1305.6	1058.1	928.0	930.2	970.7	1034.6	1085.9	1102.9
42.5°	9647.0	7323.7	2159.0	1250.1	1038.9	898.1	891.7	919.4	962.2	998.5	1013.3
45°	10570.7	8100.3	2314.7	1173.3	1015.5	868.3	853.3	864.0	872.6	887.4	896.1
47.5°	11377.1	8646.5	2269.9	1102.9	983.5	834.1	808.5	804.3	778.7	776.5	774.4
50°	11934.0	8765.9	2016.0	1032.6	936.5	795.7	755.2	729.6	684.8	663.5	665.6
52.5°	12111.0	8294.4	1647.0	962.2	859.8	744.6	687.0	646.4	590.9	571.7	569.6
55°	11876.4	7370.7	1316.3	876.8	753.1	676.3	612.2	558.9	514.1	490.7	490.7
57.5°	11302.5	6195.2	1041.1	776.5	640.0	599.4	535.5	482.2	443.7	420.2	416.0
60°	10351.0	4919.5	823.5	657.0	546.1	516.3	450.2	416.0	381.9	354.1	347.8
62.5°	8906.7	3511.4	646.4	520.5	456.5	422.4	384.0	358.4	317.9	279.5	273.1
65°	6950.4	2148.3	499.2	381.9	367.0	349.8	326.4	302.9	253.9	215.5	209.1
67.5°	4384.0	1017.6	356.3	288.0	290.2	281.6	270.9	251.7	215.5	181.3	177.0
70°	1930.7	492.8	234.6	219.8	215.5	215.5	224.0	217.6	183.5	151.5	145.0
72.5°	657.0	264.6	175.0	166.4	155.7	153.6	187.8	181.3	147.2	117.4	110.9
75°	343.5	177.0	128.0	119.5	93.9	113.1	149.3	140.8	104.6	76.8	70.4
77.5°	224.0	125.9	87.4	76.8	53.3	74.6	110.9	98.1	61.9	38.4	34.1
80°	140.8	83.2	51.2	36.3	25.6	40.5	59.8	42.6	23.5	8.5	6.4
82.5°	74.6	42.6	19.2	12.8	10.7	12.8	15.0	10.7	4.3	0.0	0.0
85°	29.8	15.0	6.4	4.3	2.2	0.0	4.3	2.2	0.0	0.0	0.0
87.5°	10.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)