

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: P970284

Luminaire Tested: **NAV-SB6B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970284
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-SB6B-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28856.8 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

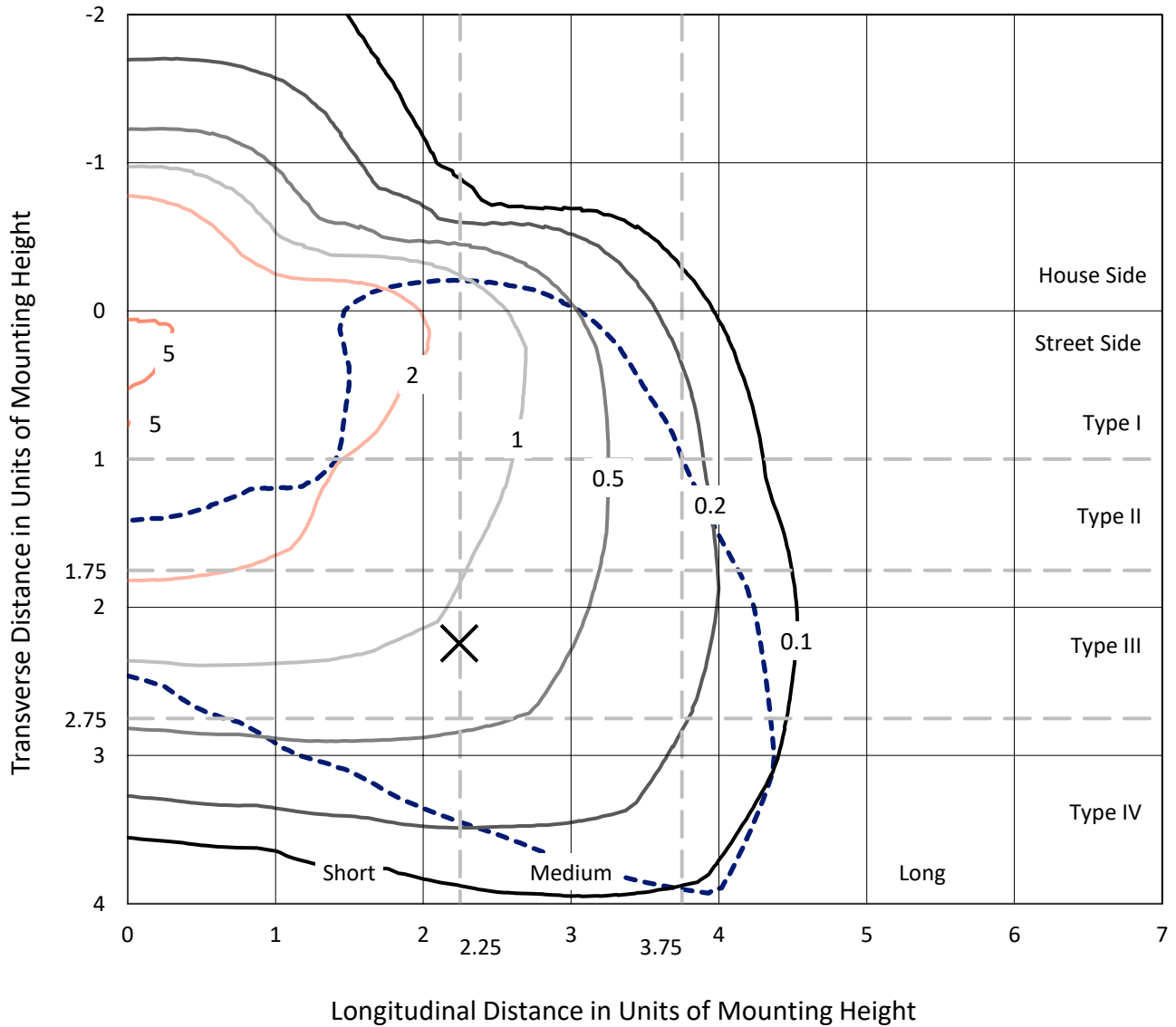
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

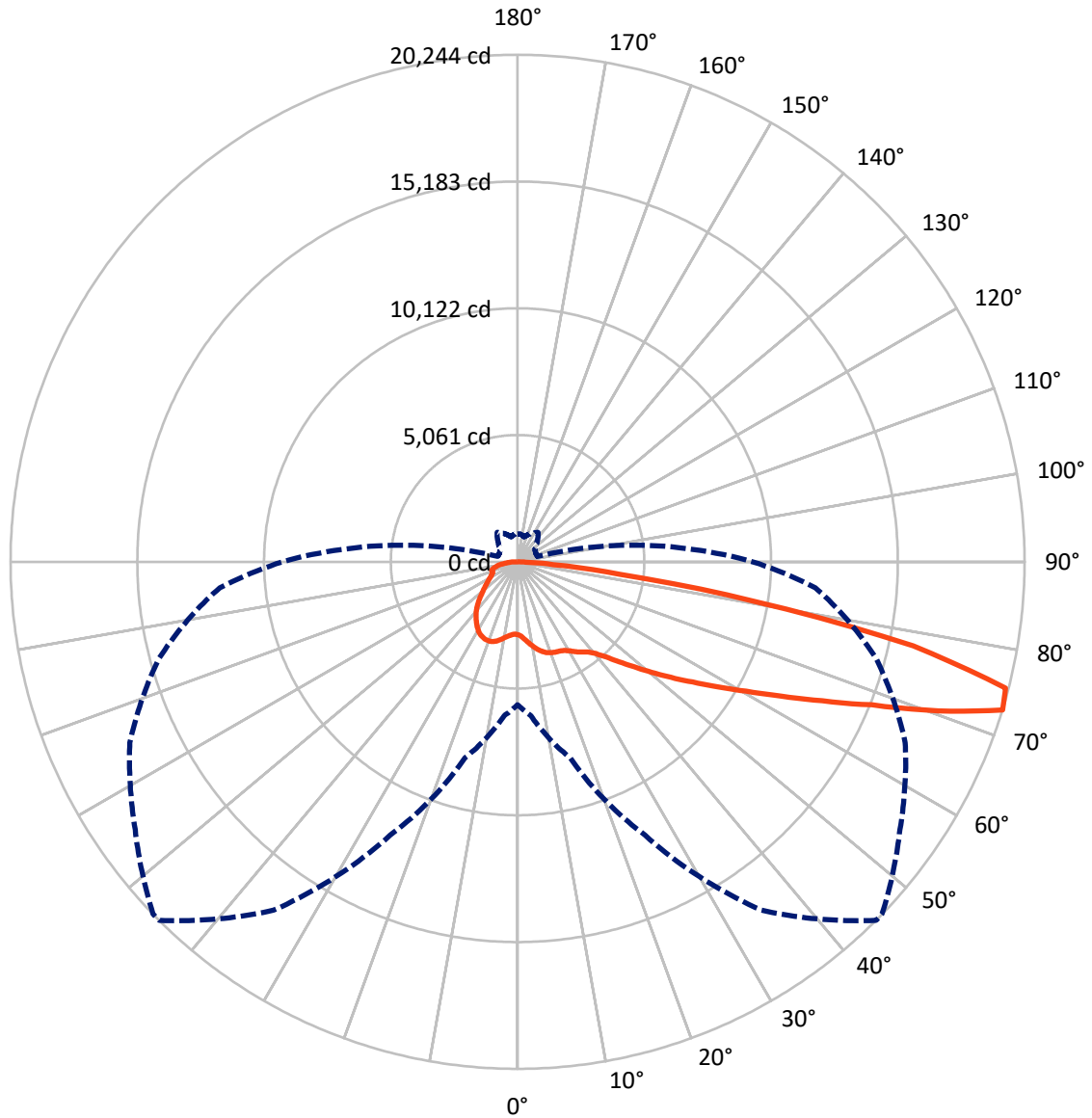
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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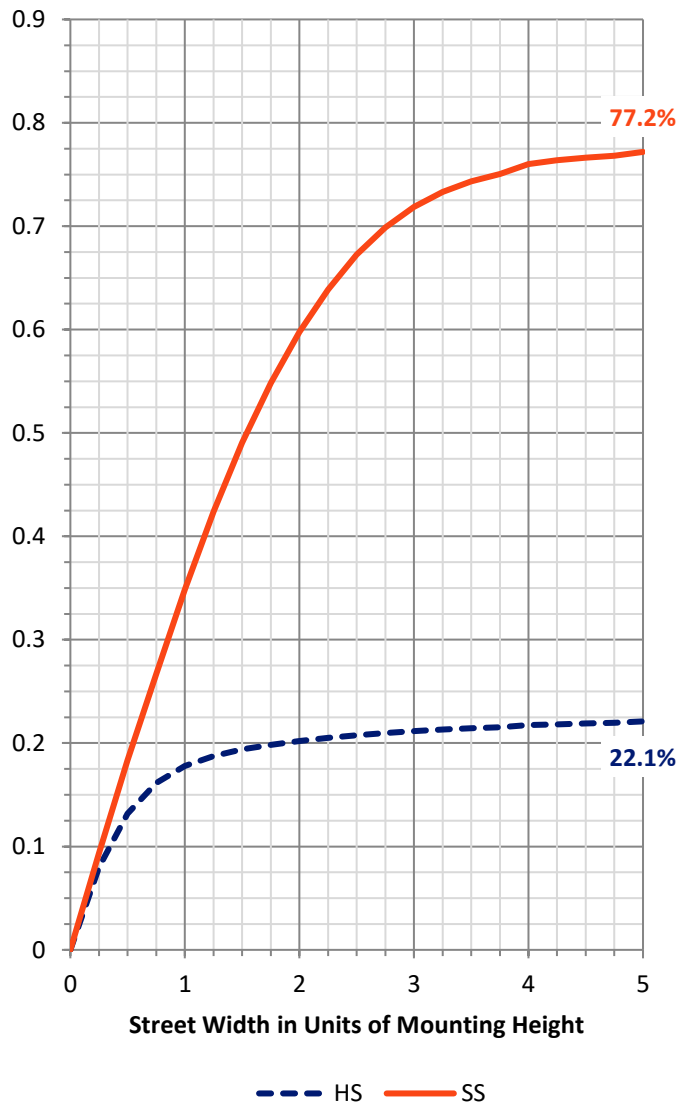
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6523.5	0.0	6523.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22333.3	0.0	22333.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	28856.8	0.0	28856.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.0
10°-20°	987.9	3.4
20°-30°	1718.5	6.0
30°-40°	2463.5	8.5
40°-50°	3468.8	12.0
50°-60°	5313.1	18.4
60°-70°	7696.9	26.7
70°-80°	6146.4	21.3
80°-90°	765.5	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°	28856.8	100.0
0°-180°	28856.8	100.0

Coefficient of Utilization

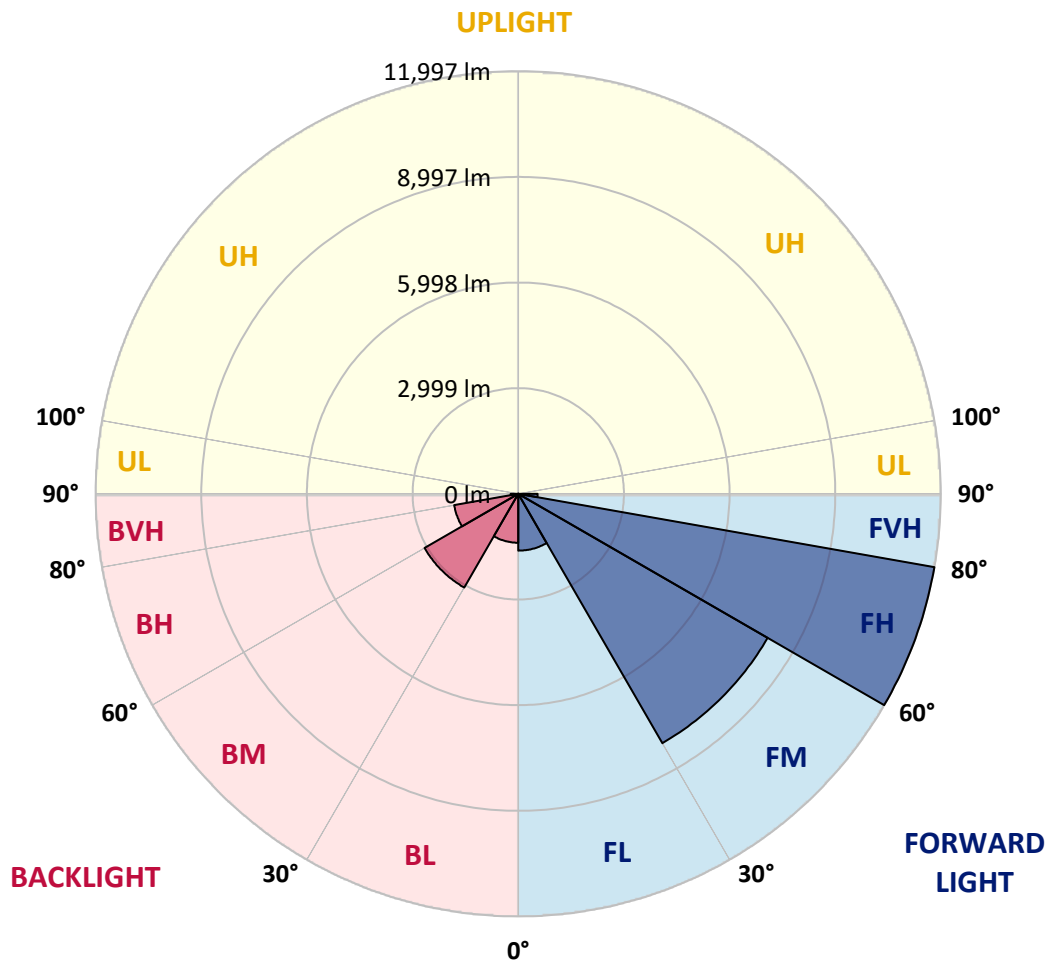


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1613.7	5.6			
FM	(30°-60°)	8173.8	28.3			
FH	(60°-80°)	11996.6	41.6			G4/12000
FVH	(80°-90°)	549.2	1.9			G4/750
BL	(0°-30°)	1388.9	4.8	B3/2500		
BM	(30°-60°)	3071.7	10.6	B3/5000		
BH	(60°-80°)	1846.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	216.3	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1
2.5°	3025.1	3044.9	3026.6	3009.9	3002.3	2982.5	2981.0	2968.8	2961.2	2940.0	2933.9
5°	3236.4	3262.3	3231.8	3198.4	3168.0	3119.4	3113.2	3078.3	3038.8	2993.2	2967.4
7.5°	3475.1	3497.9	3462.9	3412.7	3359.5	3279.0	3277.4	3213.6	3151.3	3073.8	3029.7
10°	3683.3	3713.8	3666.6	3598.2	3531.3	3440.1	3429.4	3356.5	3277.4	3177.1	3110.3
12.5°	3867.2	3888.5	3842.9	3759.3	3681.8	3590.6	3576.9	3496.4	3408.2	3294.1	3209.1
15°	4013.2	4040.6	3979.8	3890.1	3808.0	3718.3	3706.1	3633.2	3545.0	3424.9	3315.5
17.5°	4109.0	4131.8	4069.5	3969.1	3890.1	3815.6	3806.4	3745.7	3668.2	3546.5	3429.4
20°	4145.4	4169.8	4104.4	4002.5	3929.6	3871.8	3867.2	3823.1	3770.0	3659.0	3540.5
22.5°	4181.9	4204.8	4119.6	4013.2	3949.3	3912.8	3911.4	3882.5	3861.2	3770.0	3654.4
25°	4329.4	4335.4	4221.5	4067.9	3976.7	3944.8	3943.3	3941.7	3950.9	3879.4	3777.5
27.5°	4457.1	4455.6	4358.3	4213.9	4072.5	4005.6	4004.1	4019.3	4048.1	3988.9	3905.2
30°	4644.1	4627.4	4511.8	4361.3	4232.1	4128.7	4119.6	4105.9	4128.7	4081.7	4033.0
32.5°	5040.8	4987.6	4800.7	4533.1	4364.3	4285.3	4273.1	4188.0	4197.2	4168.3	4144.0
35°	5609.3	5539.4	5290.1	4858.4	4528.6	4416.0	4410.0	4302.0	4283.8	4258.0	4267.1
37.5°	6285.8	6199.2	5908.8	5329.7	4811.2	4568.0	4558.9	4461.6	4387.2	4359.8	4411.5
40°	6965.4	6855.9	6615.7	5904.3	5227.8	4821.9	4793.0	4645.6	4560.4	4514.8	4624.3
42.5°	7625.1	7533.9	7328.6	6548.8	5741.6	5192.9	5129.0	4876.6	4812.8	4770.2	4967.9
45°	8208.8	8126.7	7976.2	7237.4	6343.6	5697.6	5635.2	5223.2	5203.5	5203.5	5489.3
47.5°	8683.1	8664.8	8505.2	7939.8	7053.5	6272.2	6164.2	5705.2	5758.3	5840.4	6229.5
50°	9209.1	9158.9	8988.6	8631.4	7888.1	6930.3	6842.2	6296.5	6495.6	6720.6	7299.7
52.5°	9692.5	9719.9	9529.8	9352.0	8830.6	7664.6	7509.6	6994.2	7424.4	7796.9	8553.9
55°	10189.6	10191.1	10137.9	10113.6	9818.7	8476.3	8306.1	7833.4	8517.4	8979.5	10016.3
57.5°	10656.3	10659.3	10738.3	10952.7	10964.8	9412.8	9219.8	8864.0	9732.0	10203.3	11524.3
60°	11072.8	11094.1	11310.0	11811.6	11972.7	10486.1	10303.6	10081.7	10987.7	11462.0	13109.7
62.5°	11212.7	11290.2	11770.6	12483.5	12968.4	11802.5	11623.1	11490.9	12307.2	12748.0	14435.4
65°	10975.5	11153.3	12082.2	13038.3	13993.0	13366.7	13188.9	13044.5	13678.3	14093.3	15523.8
67.5°	10393.3	10622.8	12063.9	13620.6	15236.5	15248.6	15083.0	14744.0	15148.3	15308.0	15878.0
70°	8859.5	9203.0	11001.3	13837.9	16663.9	17822.3	17662.7	16790.1	16615.2	15843.0	14880.7
72.5°	5708.1	6170.3	8100.9	12048.8	16981.6	20243.9	20234.7	18637.1	17079.0	14803.3	11934.7
75°	2082.6	2365.4	3763.9	7562.8	14254.5	20120.8	20180.0	18320.8	15590.7	11434.6	7435.0
77.5°	758.6	830.0	1228.3	2906.5	8766.7	16144.1	16267.2	14646.6	11097.2	5738.6	2946.1
80°	398.3	437.8	629.3	1127.9	3756.3	9587.6	9780.7	8704.4	5215.6	1728.5	883.2
82.5°	220.4	238.6	352.7	612.6	1692.0	4099.9	4215.4	3438.6	1834.9	732.7	364.8
85°	118.6	126.2	165.7	334.5	827.0	1421.4	1453.2	1027.7	731.2	430.2	176.3
87.5°	35.0	42.5	54.7	106.4	323.8	319.2	326.9	203.7	288.8	217.4	57.8
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°	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1	2911.1
2.5°	2924.7	2920.2	2903.5	2895.9	2886.8	2885.3	2892.9	2894.4	2895.9	2897.4	2903.5
5°	2952.1	2936.9	2921.8	2912.6	2915.6	2917.1	2932.4	2943.0	2950.6	2956.7	2959.7
7.5°	3005.3	2993.2	2967.4	2965.8	2970.3	2984.1	3003.9	3028.2	3041.8	3052.4	3055.5
10°	3084.4	3061.6	3031.2	3035.7	3044.9	3064.6	3105.6	3125.4	3148.2	3168.0	3163.5
12.5°	3165.0	3145.2	3110.3	3113.2	3128.5	3163.5	3202.9	3227.3	3242.5	3257.7	3263.8
15°	3269.9	3234.9	3196.9	3196.9	3224.2	3262.3	3280.5	3300.3	3309.4	3326.1	3332.2
17.5°	3377.8	3332.2	3282.0	3279.0	3312.4	3330.6	3341.3	3344.4	3347.3	3365.6	3371.7
20°	3485.7	3435.6	3364.0	3358.0	3365.6	3362.6	3361.1	3358.0	3362.6	3385.4	3394.5
22.5°	3592.1	3534.4	3435.6	3408.2	3386.9	3358.0	3356.5	3354.9	3358.0	3380.9	3396.0
25°	3716.8	3646.8	3514.6	3432.5	3361.1	3321.5	3326.1	3327.7	3330.6	3348.9	3373.2
27.5°	3852.1	3774.6	3587.6	3424.9	3295.7	3268.3	3260.7	3265.2	3275.9	3304.8	3333.7
30°	3987.4	3896.1	3654.4	3394.5	3213.6	3175.6	3151.3	3161.9	3195.3	3224.2	3256.1
32.5°	4110.5	4019.3	3707.6	3327.7	3108.7	3049.4	3017.5	3031.2	3064.6	3075.3	3113.2
35°	4254.9	4151.6	3730.5	3221.2	2994.7	2903.5	2860.9	2841.2	2857.9	2847.2	2880.7
37.5°	4416.0	4308.1	3727.4	3081.4	2860.9	2756.0	2696.8	2622.3	2587.3	2550.8	2573.6
40°	4654.7	4499.6	3690.9	2912.6	2695.2	2599.5	2493.0	2366.8	2287.8	2216.4	2221.0
42.5°	4980.1	4765.6	3624.1	2727.1	2508.3	2418.6	2274.2	2126.7	2002.0	1883.4	1872.8
45°	5465.0	5113.8	3540.5	2529.5	2306.0	2217.9	2061.4	1895.6	1754.3	1602.3	1584.0
47.5°	6164.2	5582.0	3461.4	2304.5	2093.3	2012.7	1871.3	1717.8	1550.5	1403.1	1386.4
50°	7125.0	6253.9	3388.4	2085.7	1883.4	1822.7	1710.2	1553.6	1384.9	1266.3	1258.7
52.5°	8347.2	7167.5	3358.0	1874.3	1687.4	1664.6	1574.9	1429.0	1269.4	1169.0	1161.4
55°	9750.2	8260.5	3358.0	1672.2	1515.6	1523.1	1460.8	1325.5	1187.3	1097.6	1088.4
57.5°	11182.2	9367.2	3297.2	1485.2	1369.7	1401.6	1362.0	1243.5	1118.8	1026.1	1010.9
60°	12501.7	10294.5	3050.9	1315.0	1240.5	1290.6	1264.7	1163.0	1010.9	933.4	921.2
62.5°	13515.6	10817.4	2576.6	1179.7	1134.1	1191.8	1178.1	1056.5	991.2	959.2	948.5
65°	14023.4	10732.3	1970.2	1059.5	1044.4	1134.1	1105.2	1100.5	1048.9	1012.4	1000.3
67.5°	13711.7	9999.6	1429.0	971.4	992.6	1080.9	1191.8	1210.0	1114.3	1042.8	1030.6
70°	12345.2	8674.0	1064.2	887.8	927.3	1082.3	1359.0	1266.3	1093.0	1009.4	995.7
72.5°	9391.5	6468.3	825.4	799.6	842.1	1090.0	1433.5	1240.5	1032.2	1115.8	1106.7
75°	5370.7	3551.1	662.8	691.7	735.7	1018.5	1395.5	1173.5	985.0	1024.6	1024.6
77.5°	2047.6	1365.1	547.2	585.3	591.3	889.3	1334.7	1169.0	938.0	915.1	834.6
80°	709.9	533.6	453.0	465.1	457.6	790.5	1279.9	1017.0	767.7	687.2	664.3
82.5°	290.4	266.0	358.7	343.6	325.3	614.2	1033.7	831.5	627.8	554.8	548.8
85°	126.2	168.7	237.2	208.3	188.5	425.7	828.5	703.9	530.5	457.6	456.0
87.5°	25.8	63.9	100.3	94.3	97.3	284.2	588.3	500.1	375.5	281.3	220.4
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)