

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: P970314

Luminaire Tested: **NAV-SB6B-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25006.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

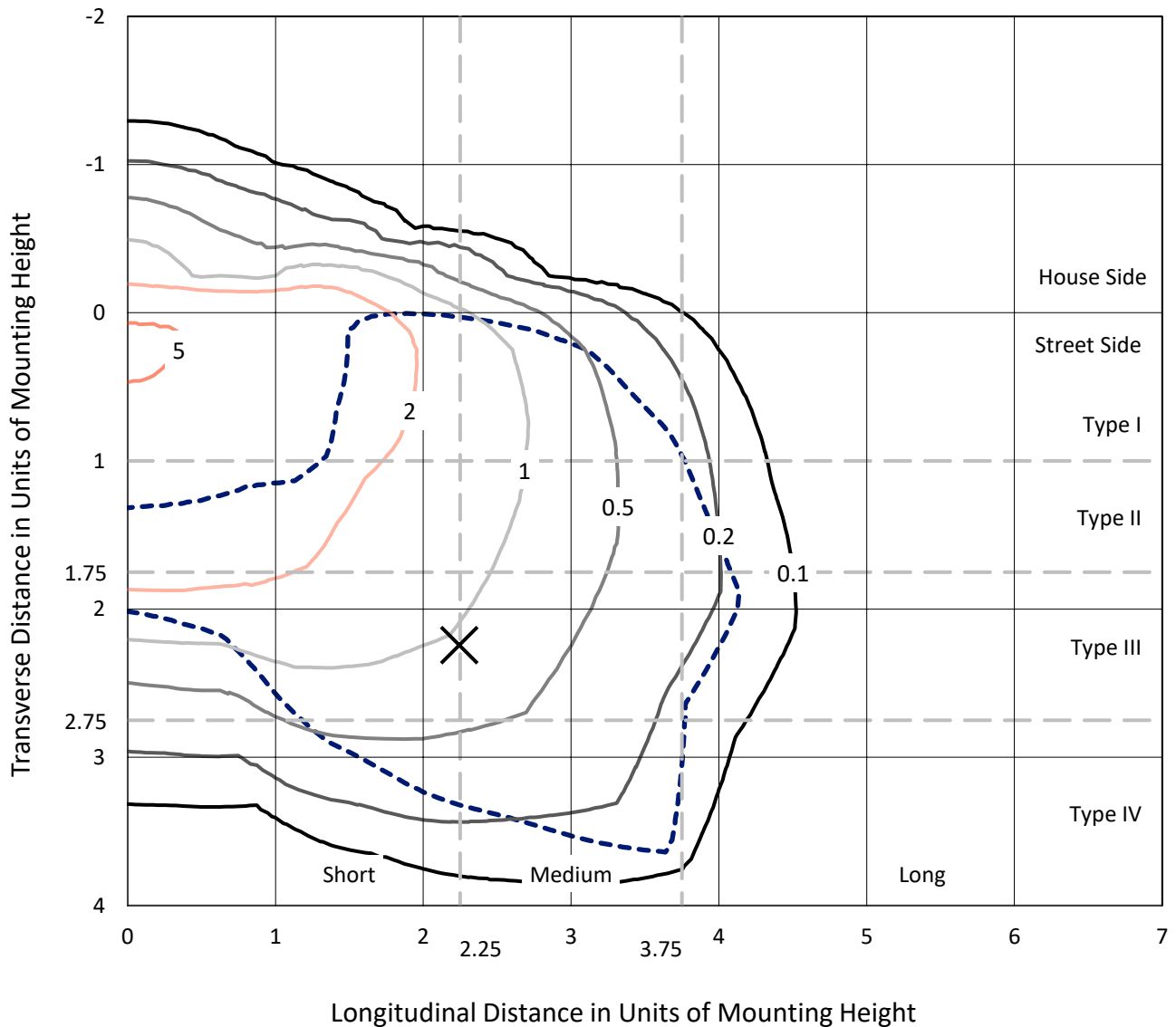
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970314
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Iso-Footcandle Lines of Horizontal Illumination

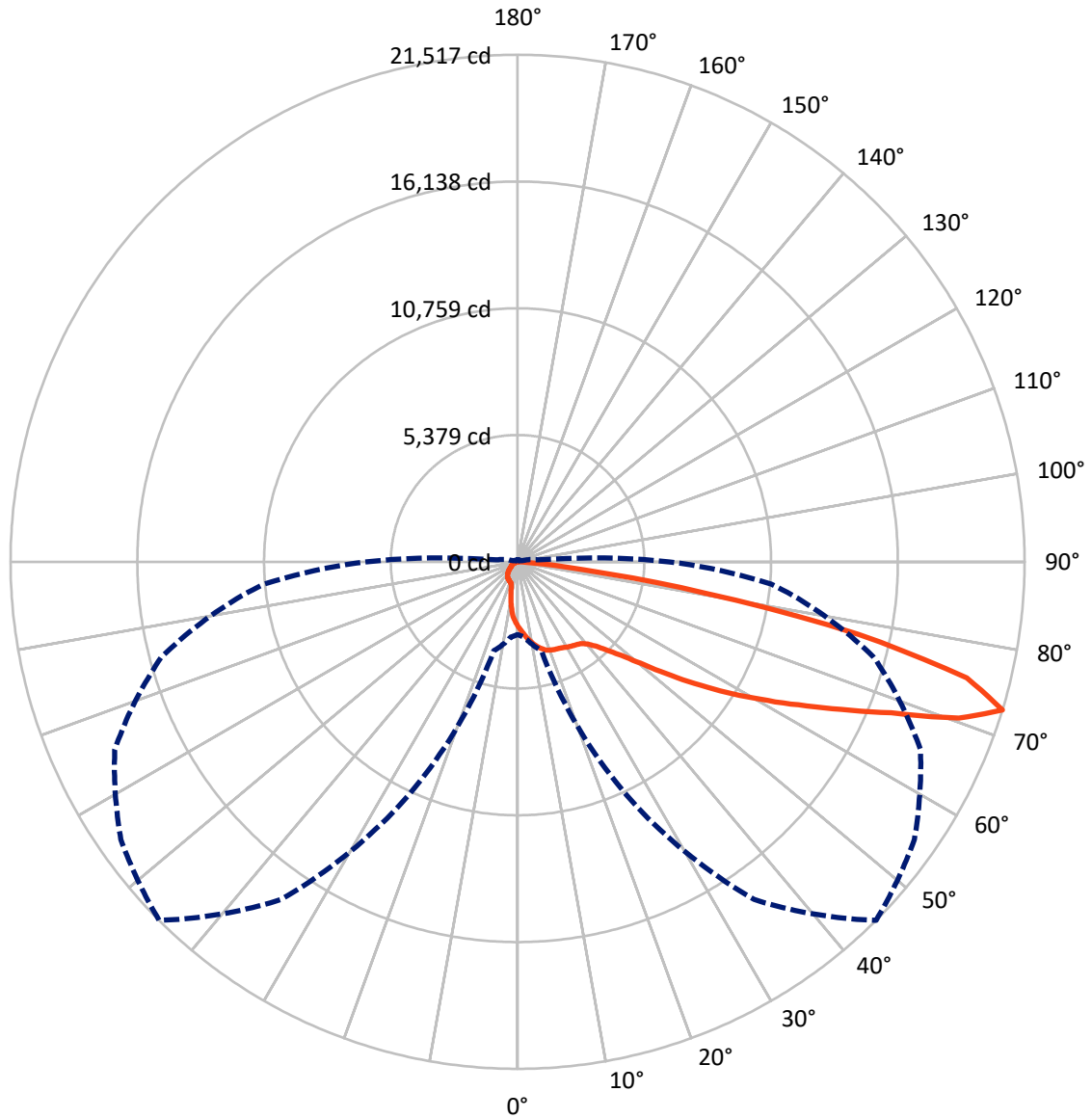
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P970314
CATALOG NUMBER: NAV-SB6B-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

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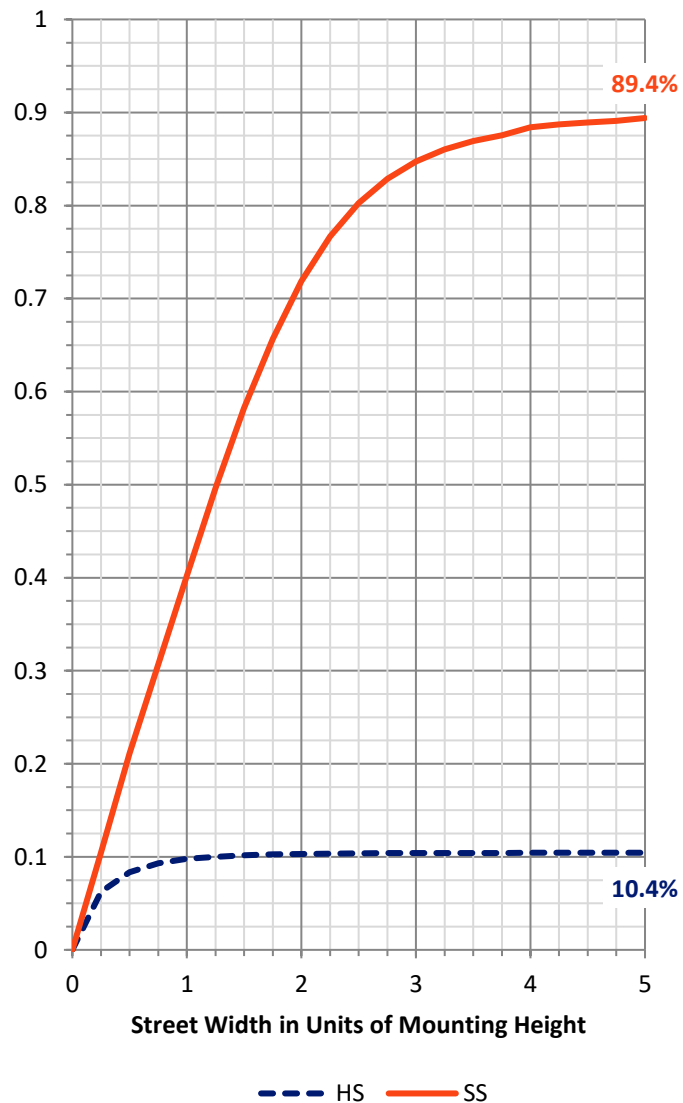
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.5	0.0	2627.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22379.4	0.0	22379.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	25006.9	0.0	25006.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	1.0
10°-20°	754.4	3.0
20°-30°	1238.8	5.0
30°-40°	1756.9	7.0
40°-50°	2904.0	11.6
50°-60°	5216.7	20.9
60°-70°	7243.7	29.0
70°-80°	5254.4	21.0
80°-90°	379.9	1.5
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°	25006.9	100.0
0°-180°	25006.9	100.0

Coefficient of Utilization

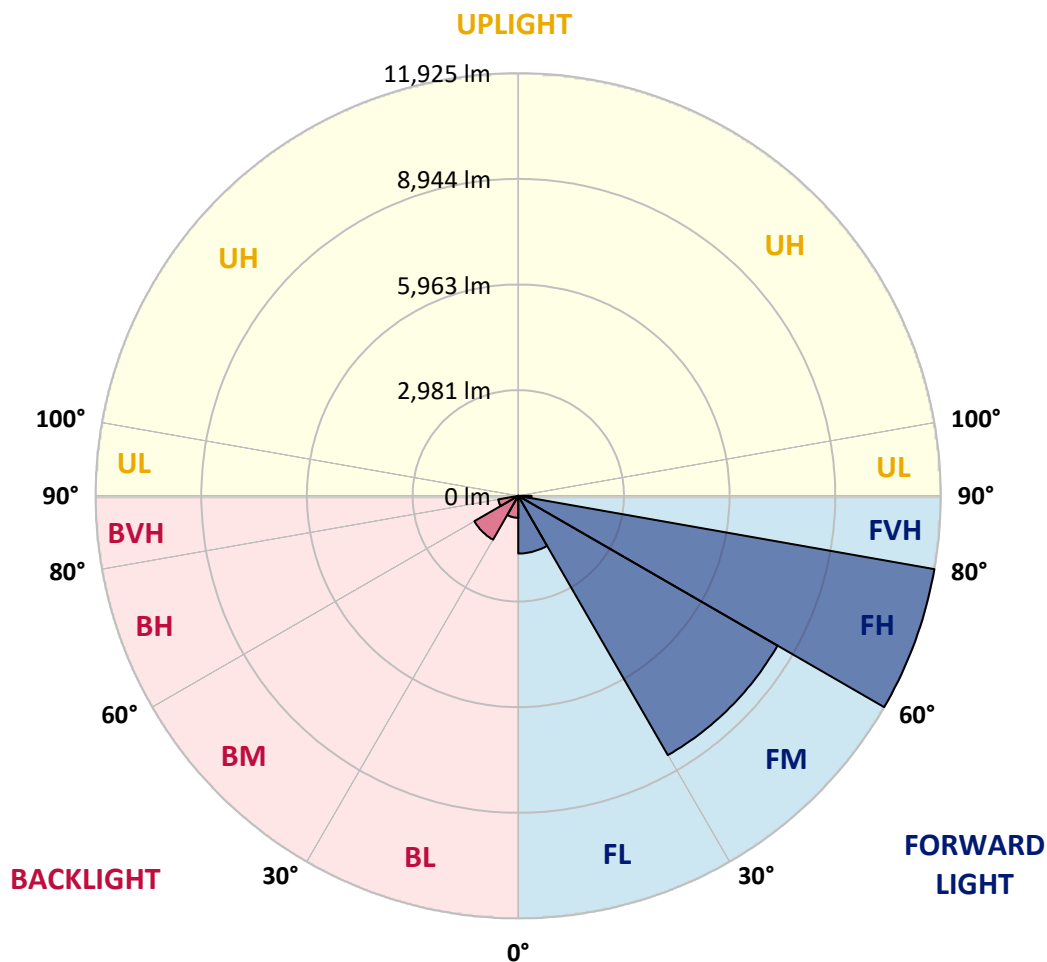


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.9	6.5			
FM (30°-60°)	8448.7	33.8			
FH (60°-80°)	11925.1	47.7			G4/12000
FVH (80°-90°)	376.7	1.5			G3/500
BL (0°-30°)	622.4	2.5	B2/1000		
BM (30°-60°)	1429.0	5.7	B2/2500		
BH (60°-80°)	573.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2992.2	2997.3	2993.9	2973.4	2939.3	2920.5	2910.3	2876.1	2853.9	2814.6	2773.6
5°	3267.0	3287.5	3275.5	3234.6	3169.7	3123.6	3110.0	3039.9	2976.8	2903.4	2818.0
7.5°	3558.9	3569.2	3546.9	3494.0	3407.0	3328.5	3316.5	3219.2	3118.5	3005.8	2889.8
10°	3811.5	3823.5	3789.3	3712.4	3613.5	3516.2	3499.1	3391.6	3272.1	3133.8	2985.3
12.5°	4023.1	4035.1	3990.7	3898.6	3789.3	3688.6	3671.6	3558.9	3427.4	3273.8	3089.5
15°	4183.6	4205.8	4146.0	4047.0	3929.2	3828.6	3820.1	3709.1	3581.0	3410.4	3214.1
17.5°	4277.4	4299.7	4243.3	4123.9	4023.1	3937.8	3927.6	3835.3	3715.9	3552.0	3335.2
20°	4292.8	4313.3	4253.5	4149.4	4065.9	3997.5	3992.4	3925.9	3838.8	3681.8	3466.7
22.5°	4246.8	4272.3	4217.8	4134.1	4076.0	4040.2	4033.4	3995.9	3946.4	3813.2	3589.6
25°	4198.9	4219.4	4178.5	4105.1	4074.4	4070.9	4076.0	4069.2	4059.0	3946.4	3732.9
27.5°	4195.5	4217.8	4171.6	4101.6	4084.6	4120.4	4125.5	4158.0	4166.5	4067.5	3871.2
30°	4224.5	4239.9	4195.5	4122.1	4113.6	4195.5	4197.3	4255.3	4268.9	4169.9	4007.7
32.5°	4287.7	4304.8	4260.4	4152.9	4140.9	4255.3	4260.4	4337.2	4359.4	4279.2	4151.1
35°	4436.2	4456.7	4405.4	4238.2	4195.5	4311.6	4326.9	4417.4	4461.8	4395.2	4299.7
37.5°	4806.6	4746.9	4676.9	4410.6	4320.2	4400.3	4426.0	4531.8	4610.3	4533.5	4477.2
40°	5726.6	5538.9	5320.4	4704.2	4538.6	4589.8	4610.3	4716.1	4823.6	4748.6	4721.3
42.5°	7107.5	6885.6	6534.0	5380.1	4868.0	4893.7	4909.0	5001.2	5153.1	5093.3	5100.2
45°	8338.2	8257.9	7899.5	6534.0	5484.3	5358.0	5376.7	5424.5	5648.1	5625.9	5670.3
47.5°	9283.8	9237.7	8961.2	7858.6	6525.5	5926.3	5979.2	6001.5	6324.0	6402.6	6522.1
50°	10011.0	9993.9	9746.3	9036.3	7885.8	6764.4	6783.1	6735.4	7218.5	7413.0	7640.0
52.5°	10697.1	10755.1	10572.5	10130.4	9338.4	7862.0	7858.6	7633.2	8285.3	8578.8	8966.3
55°	11316.7	11337.2	11356.0	11246.7	10799.5	9111.4	9078.9	8710.2	9522.8	9826.6	10246.5
57.5°	11898.7	11907.3	12074.6	12298.2	12320.4	10453.1	10393.3	9951.2	10874.6	11091.4	11349.1
60°	12289.6	12328.9	12682.2	13303.5	13574.9	11837.3	11804.8	11354.2	12250.4	12351.0	12303.3
62.5°	11726.3	11965.3	12856.3	14088.7	14759.5	13371.8	13356.5	12933.1	13697.8	13615.9	13206.2
65°	9492.0	9896.6	11463.5	14619.6	15921.9	15085.5	15107.7	14657.1	15184.6	14918.3	13940.2
67.5°	6639.8	7066.6	8920.3	14662.2	17220.8	17097.9	17225.9	16519.3	16763.4	16166.0	14114.2
70°	4591.6	4811.8	6018.5	13743.9	18233.0	19869.9	19866.6	18806.5	18333.8	16734.4	13226.7
72.5°	3087.8	3202.1	3908.7	10903.6	17488.9	21517.1	21418.1	20554.4	18862.9	15650.5	10806.4
75°	1302.4	1386.0	1809.3	6127.8	13836.1	19685.6	19417.6	18164.7	16760.0	12323.8	6742.2
77.5°	413.1	449.0	713.5	2193.4	7621.3	14797.0	14513.7	11344.0	11233.1	6182.4	2464.7
80°	196.3	228.7	401.1	880.8	2999.0	8048.0	8008.7	5146.3	4832.3	1669.3	495.0
82.5°	85.4	100.8	221.9	471.1	1341.6	2871.0	2929.0	1751.3	1449.1	633.2	151.9
85°	27.3	35.9	102.4	216.8	566.7	713.5	705.0	416.5	583.7	344.8	52.9
87.5°	0.0	0.0	34.1	49.5	58.0	41.0	46.1	35.9	162.2	95.6	18.8
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°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2753.3	2725.9	2678.1	2633.7	2594.5	2555.2	2531.3	2497.2	2493.7	2493.7	2502.3
5°	2772.0	2727.6	2642.2	2551.8	2447.7	2348.7	2249.7	2154.1	2123.4	2101.1	2111.4
7.5°	2826.6	2756.6	2621.7	2449.3	2251.4	2034.6	1882.7	1718.8	1655.7	1621.6	1626.7
10°	2905.2	2809.5	2604.7	2302.6	1981.7	1686.4	1469.6	1292.1	1223.8	1194.8	1194.8
12.5°	2992.2	2874.4	2574.0	2120.0	1686.4	1333.1	1121.5	1039.5	1029.3	1029.3	1029.3
15°	3096.3	2952.9	2521.1	1904.9	1377.5	1054.8	979.8	983.2	993.4	1000.2	1000.2
17.5°	3203.8	3036.6	2437.4	1664.2	1104.3	949.0	950.8	955.8	964.4	971.2	971.2
20°	3319.9	3120.2	2326.5	1408.1	947.3	918.3	923.4	928.5	935.4	938.8	940.5
22.5°	3444.5	3198.7	2195.0	1157.2	894.4	892.7	894.4	899.5	908.0	908.0	911.4
25°	3577.7	3285.7	2044.9	974.7	867.2	867.2	870.5	873.9	880.8	880.8	882.4
27.5°	3714.2	3366.0	1886.1	879.0	843.2	841.5	841.5	846.6	850.0	851.8	853.4
30°	3864.4	3459.9	1727.3	858.5	824.4	815.9	810.8	814.2	817.6	819.3	822.8
32.5°	4018.0	3550.3	1585.7	867.2	805.6	790.3	773.3	769.8	769.8	776.6	781.8
35°	4188.7	3649.3	1476.5	896.2	795.4	752.8	725.4	710.0	711.8	722.0	727.1
37.5°	4393.6	3768.8	1396.3	921.7	788.6	710.0	665.7	646.9	635.0	646.9	643.5
40°	4661.5	3944.6	1338.2	942.2	780.0	660.6	600.9	570.1	547.9	554.7	551.3
42.5°	5055.8	4221.2	1316.0	943.9	761.3	602.5	534.2	493.3	460.8	462.6	455.7
45°	5608.8	4658.1	1430.4	921.7	720.3	539.4	464.3	409.7	389.2	384.1	377.2
47.5°	6366.7	5294.7	1694.9	875.7	660.6	478.0	396.0	349.9	334.6	326.1	320.9
50°	7382.4	6112.4	1988.5	824.4	600.9	419.9	339.7	310.7	300.4	291.9	290.2
52.5°	8560.1	6941.9	2229.2	773.3	541.1	368.7	303.8	286.8	278.2	271.4	269.7
55°	9640.5	7513.8	2215.5	718.6	483.1	327.7	278.2	267.9	257.8	250.9	247.5
57.5°	10313.0	7593.9	1826.3	658.9	416.5	295.3	254.3	247.5	235.5	227.0	225.3
60°	10622.0	7136.6	1280.1	580.4	349.9	264.6	228.7	225.3	209.9	198.0	194.5
62.5°	10678.3	6286.5	853.4	483.1	291.9	235.5	203.2	198.0	177.5	157.0	146.8
65°	10449.6	5071.2	590.6	377.2	249.2	204.8	174.1	163.9	141.7	121.2	114.4
67.5°	9725.9	3560.5	411.3	271.4	211.7	162.2	138.3	134.9	117.8	100.8	95.6
70°	8399.6	2029.5	274.8	203.2	167.3	110.9	109.3	112.6	95.6	81.9	75.1
72.5°	6440.1	928.5	170.7	148.5	114.4	75.1	87.0	88.8	73.4	61.4	54.6
75°	3791.0	397.7	107.5	95.6	58.0	49.5	63.1	64.9	49.5	39.3	34.1
77.5°	1290.4	150.2	68.3	56.4	29.0	27.3	41.0	41.0	27.3	15.4	12.0
80°	293.6	56.4	34.1	22.1	13.6	12.0	13.6	12.0	6.9	1.7	0.0
82.5°	83.6	22.1	13.6	8.5	5.1	5.1	1.7	0.0	0.0	0.0	0.0
85°	23.9	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	1.7	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)