

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: P967115

Luminaire Tested: **NAV-SB4D-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27083.6 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

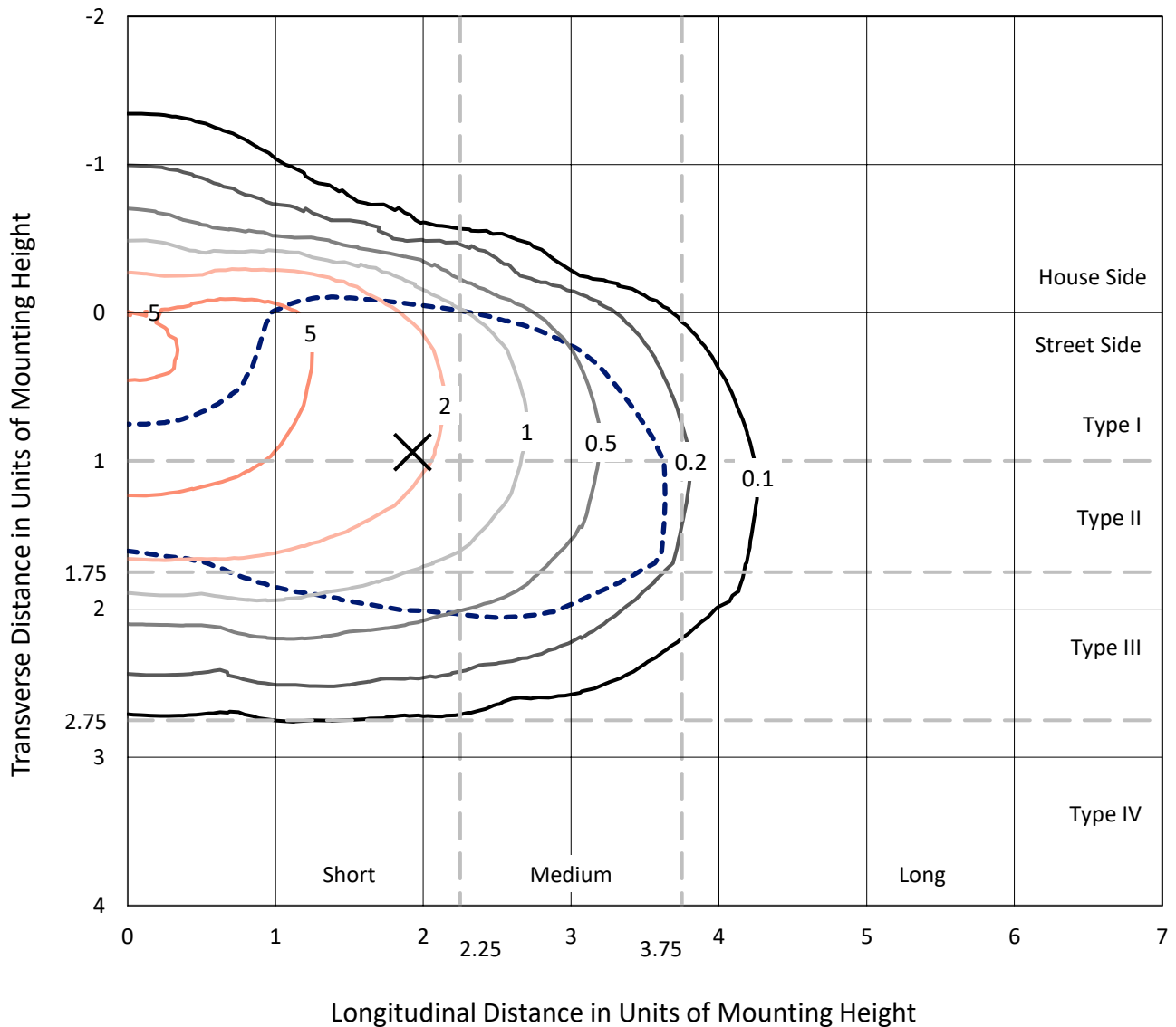
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

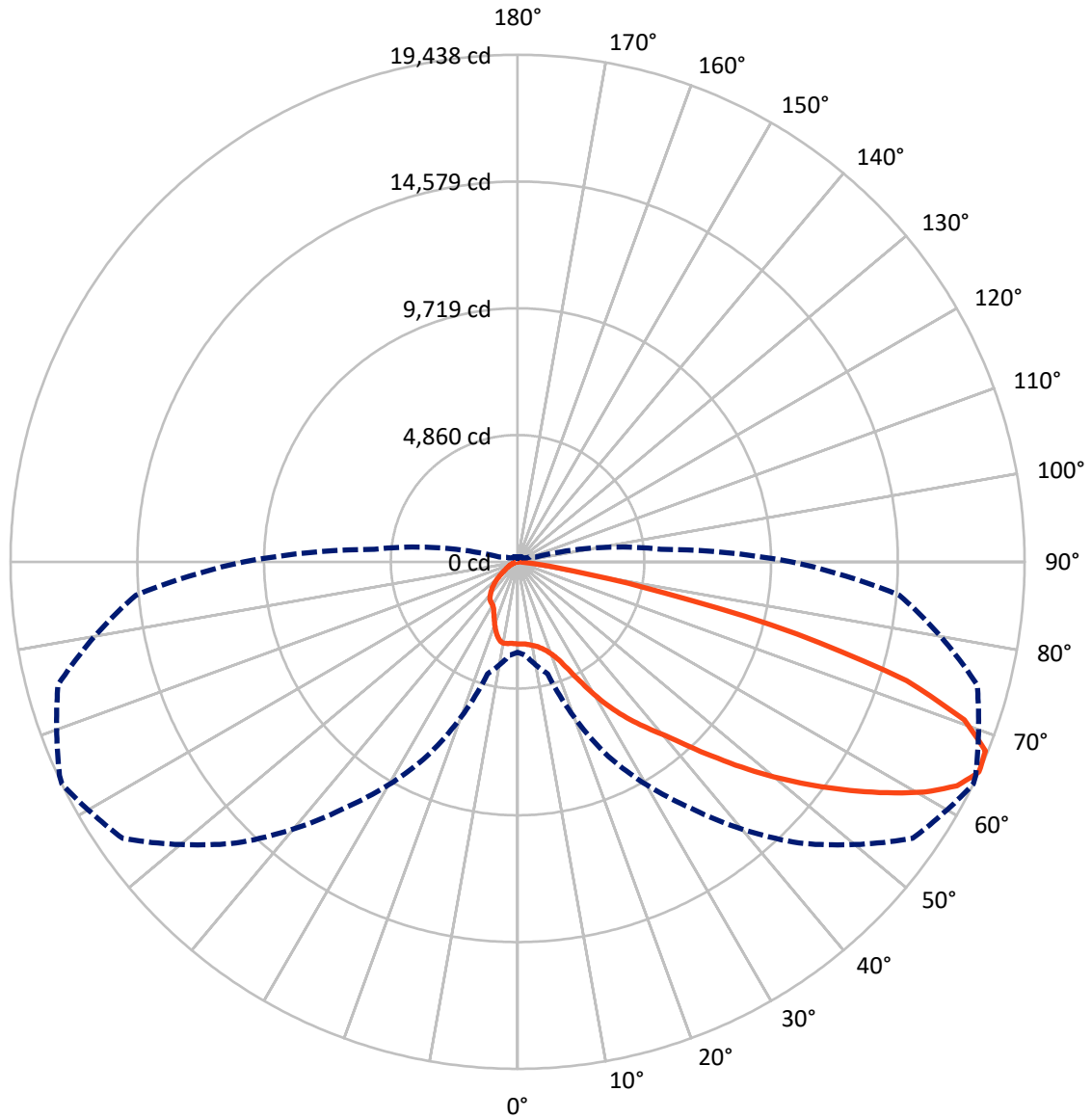
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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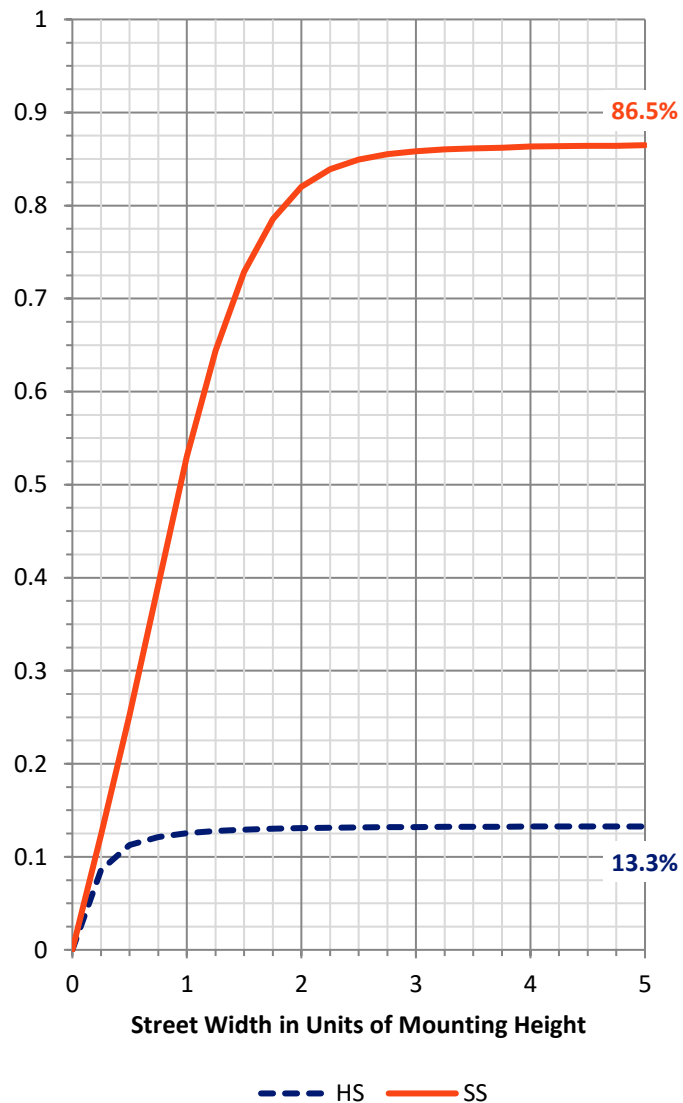
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3621.9	0.0	3621.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23461.7	0.0	23461.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	27083.6	0.0	27083.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.1
10°-20°	788.3	2.9
20°-30°	1493.7	5.5
30°-40°	3022.5	11.2
40°-50°	5148.9	19.0
50°-60°	7002.1	25.9
60°-70°	6575.4	24.3
70°-80°	2634.4	9.7
80°-90°	127.6	0.5
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°	27083.6	100.0
0°-180°	27083.6	100.0

Coefficient of Utilization

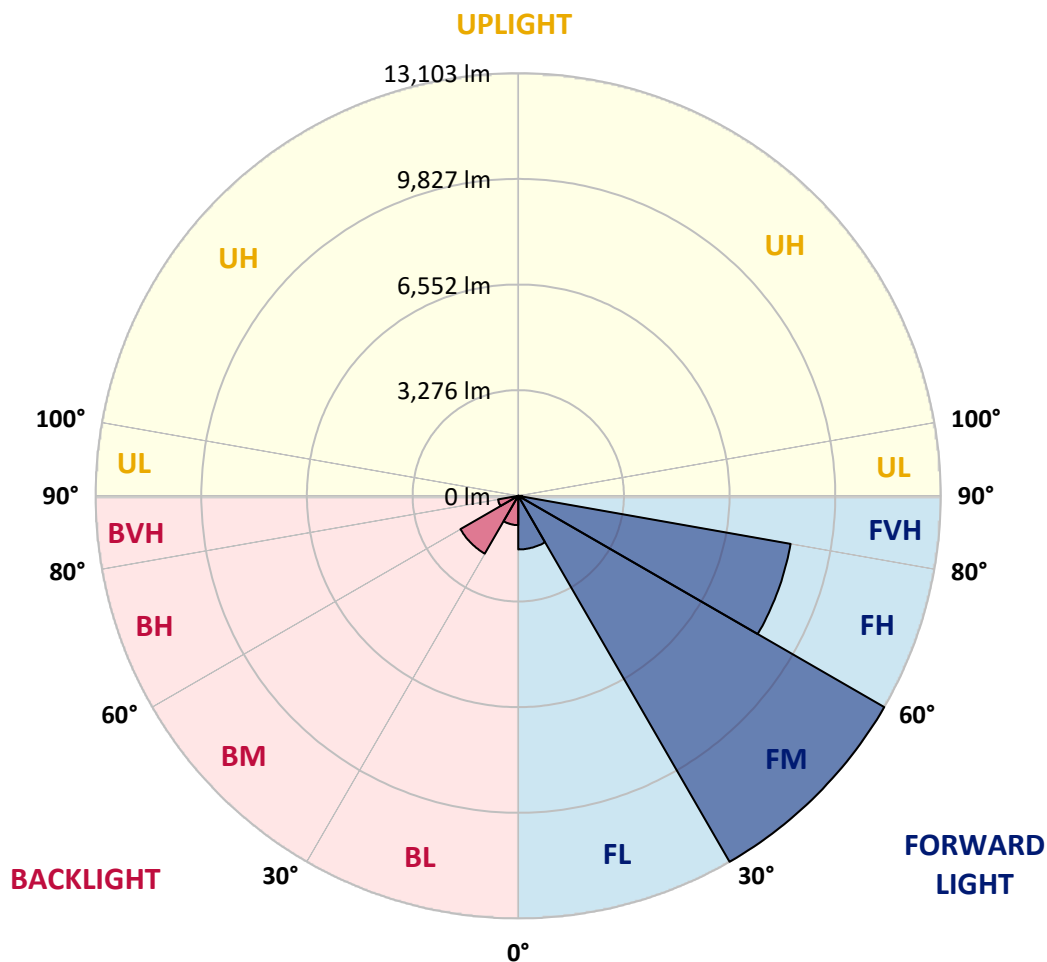


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.2	6.1			
FM (30°-60°)	13103.0	48.4			
FH (60°-80°)	8574.0	31.7			G4/12000
FVH (80°-90°)	121.4	0.4			G2/225
BL (0°-30°)	909.4	3.4	B2/1000		
BM (30°-60°)	2070.6	7.6	B2/2500		
BH (60°-80°)	635.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1
2.5°	3139.2	3161.0	3155.6	3150.1	3148.3	3151.9	3153.7	3151.9	3151.9	3151.9	3153.7
5°	3079.3	3097.4	3097.4	3110.2	3128.3	3150.1	3166.4	3170.1	3173.7	3179.1	3177.3
7.5°	2964.9	2979.5	2990.3	3032.1	3077.5	3135.6	3184.6	3210.0	3213.7	3233.7	3240.8
10°	2886.8	2905.0	2923.2	2966.8	3032.1	3119.3	3202.7	3264.5	3273.5	3320.8	3342.5
12.5°	2883.2	2901.4	2924.9	2972.2	3048.5	3141.0	3242.7	3331.7	3348.0	3417.0	3462.3
15°	2921.4	2943.1	2964.9	3023.0	3104.7	3217.3	3326.2	3436.9	3453.3	3551.3	3600.4
17.5°	2999.4	3028.5	3044.8	3102.9	3190.0	3315.4	3458.8	3585.9	3600.4	3714.8	3776.5
20°	3153.7	3188.3	3193.7	3240.8	3326.2	3460.6	3631.3	3789.2	3807.4	3938.0	4007.0
22.5°	3473.3	3522.3	3478.7	3502.3	3578.6	3713.0	3898.2	4097.8	4123.3	4272.2	4333.9
25°	4036.1	4105.1	3992.6	3952.6	3985.3	4125.1	4357.5	4609.8	4638.9	4758.8	4789.6
27.5°	5141.8	5052.8	4882.2	4715.2	4617.1	4697.0	4958.4	5270.8	5307.0	5423.3	5387.0
30°	6356.4	6278.4	6047.8	5677.5	5445.0	5432.3	5673.8	6022.4	6064.2	6174.9	6064.2
32.5°	7572.9	7498.5	7248.0	6792.3	6389.1	6189.5	6356.4	6743.2	6765.0	6835.8	6672.4
35°	8769.5	8693.2	8442.6	7976.0	7480.3	7026.5	6993.8	7429.5	7436.8	7511.2	7268.0
37.5°	9973.2	9909.7	9642.8	9185.2	8696.8	8070.4	7767.2	8079.5	8088.6	8161.3	7908.8
40°	10832.0	10859.3	10675.9	10321.8	9902.4	9217.9	8635.1	8771.2	8716.8	8838.5	8687.7
42.5°	11569.2	11623.6	11463.8	11285.9	11042.6	10439.8	9709.9	9686.4	9599.2	9664.5	9508.4
45°	12206.4	12251.8	12108.3	12066.6	12061.2	11638.2	10884.7	10743.0	10621.4	10608.6	10421.7
47.5°	12440.6	12527.8	12589.5	12729.3	13001.6	12823.8	12099.3	11879.6	11743.4	11643.6	11347.7
50°	12529.6	12622.2	12832.8	13239.5	13884.0	13960.3	13308.5	13061.6	12894.5	12713.0	12277.2
52.5°	12409.8	12575.0	12858.2	13542.7	14477.7	14871.7	14468.7	14252.6	14062.0	13766.1	13119.7
55°	11703.4	11868.7	12447.9	13539.1	14773.7	15510.8	15565.3	15469.1	15254.9	14788.2	13800.5
57.5°	10214.6	10459.8	11376.7	13077.9	14768.3	16060.9	16640.2	16709.1	16469.5	15801.3	14336.2
60°	8152.1	8484.4	9602.8	12055.7	14312.5	16358.7	17582.4	17927.5	17673.3	16800.0	14770.0
62.5°	5688.3	6073.2	7131.7	10454.4	13270.4	16144.5	18270.6	18907.9	18715.4	17693.2	14937.1
65°	3469.6	3593.1	4446.4	8226.5	11498.3	15247.6	18483.0	19438.0	19374.4	18239.7	14690.2
67.5°	2311.3	2414.8	2659.9	5641.1	8925.6	13455.6	17974.6	19345.4	19363.6	18150.8	13786.0
70°	1392.6	1481.5	1641.3	3280.8	5784.6	10650.5	16400.5	18165.3	18270.6	16961.5	12072.0
72.5°	573.7	633.7	778.9	1487.0	2995.8	6759.6	13059.7	15596.2	15841.3	14261.7	9265.1
75°	325.0	355.9	457.6	746.2	1300.0	3150.1	7910.6	11071.6	11433.0	9829.8	5574.0
77.5°	216.1	230.6	295.9	483.0	731.6	1074.8	3380.7	5768.2	6458.1	5368.7	2413.0
80°	145.2	158.0	203.4	323.2	475.7	461.1	1076.7	2137.0	2629.0	1844.7	588.2
82.5°	98.1	99.8	145.2	212.4	301.3	223.3	317.8	664.5	835.2	533.8	223.3
85°	56.3	54.4	107.1	123.5	134.4	92.6	96.2	199.7	261.5	225.1	127.1
87.5°	7.3	10.9	41.7	32.7	18.1	20.0	20.0	34.5	50.8	54.4	27.3
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°	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1	3150.1
2.5°	3153.7	3151.9	3146.4	3141.0	3128.3	3121.0	3124.7	3121.0	3119.3	3121.0	3128.3
5°	3177.3	3171.9	3157.4	3139.2	3113.7	3082.9	3062.9	3033.9	3006.6	2990.3	2993.9
7.5°	3240.8	3235.4	3215.4	3164.6	3082.9	2954.0	2836.0	2732.5	2654.4	2609.0	2610.9
10°	3342.5	3333.5	3302.7	3190.0	2975.8	2694.4	2460.2	2265.9	2138.8	2078.9	2073.5
12.5°	3462.3	3451.5	3397.1	3166.4	2772.4	2333.1	2009.9	1793.9	1675.8	1623.2	1617.8
15°	3604.0	3589.4	3482.3	3053.9	2476.5	1933.7	1637.6	1476.1	1399.8	1352.6	1354.4
17.5°	3780.1	3754.7	3545.9	2885.1	2155.2	1628.6	1409.0	1287.3	1220.1	1174.8	1171.1
20°	4008.9	3967.2	3596.7	2683.4	1859.1	1436.1	1254.6	1152.9	1102.1	1062.1	1054.8
22.5°	4328.5	4268.5	3658.4	2465.6	1650.4	1303.6	1140.2	1065.8	1024.0	978.7	971.4
25°	4724.2	4653.4	3734.7	2264.1	1507.0	1189.2	1056.7	995.0	946.0	893.3	887.9
27.5°	5278.0	5150.9	3825.5	2098.9	1383.5	1091.2	980.4	911.4	855.2	811.6	802.5
30°	5895.3	5686.5	3905.4	1999.0	1270.9	1000.4	880.6	811.6	758.9	728.1	722.6
32.5°	6479.9	6196.7	3958.0	1955.4	1169.2	896.9	771.6	697.2	657.2	648.2	653.6
35°	7031.9	6657.9	3952.6	1913.7	1078.5	793.5	664.5	588.2	557.4	562.8	562.8
37.5°	7667.4	7149.9	3914.5	1848.3	1004.0	699.0	571.9	504.7	477.5	479.3	486.6
40°	8406.3	7718.2	3890.9	1724.9	922.3	611.8	495.7	441.2	421.3	414.0	412.2
42.5°	9194.2	8268.4	3894.5	1585.1	820.6	533.8	443.0	397.6	379.5	374.0	372.2
45°	9986.0	8793.1	3899.9	1439.8	713.5	473.9	404.9	366.7	355.9	348.6	348.6
47.5°	10730.3	9239.7	3798.2	1283.6	608.2	428.4	374.0	348.6	339.5	330.5	330.5
50°	11423.9	9537.4	3553.2	1102.1	524.7	392.2	350.4	332.3	323.2	314.1	314.1
52.5°	11963.1	9584.7	3148.3	915.1	466.6	364.9	335.9	319.6	308.6	299.6	297.8
55°	12202.8	9288.8	2572.8	740.8	421.3	341.3	321.3	305.0	292.3	283.2	281.5
57.5°	12141.0	8666.0	2006.2	595.5	377.6	317.8	303.2	292.3	277.8	263.2	261.5
60°	11837.8	7832.5	1512.4	495.7	337.7	292.3	283.2	274.2	254.2	232.4	228.8
62.5°	11313.1	6785.0	1078.5	410.3	294.2	263.2	259.6	252.4	223.3	183.4	179.8
65°	10510.7	5512.2	726.2	341.3	252.4	230.6	232.4	219.7	181.5	136.2	132.5
67.5°	9337.8	4030.7	464.8	279.6	210.6	192.5	194.2	187.0	154.4	116.2	110.8
70°	7843.5	2669.0	303.2	212.4	168.8	148.8	159.8	161.5	130.7	94.4	90.8
72.5°	5750.0	1575.9	212.4	158.0	123.5	103.5	130.7	134.4	105.3	70.8	67.1
75°	3277.2	748.0	159.8	114.4	76.3	72.7	101.7	101.7	72.7	47.3	43.6
77.5°	1376.3	312.3	112.5	74.4	43.6	41.7	69.0	63.6	36.3	21.8	21.8
80°	397.6	139.8	60.0	36.3	18.1	16.3	27.3	20.0	9.1	3.6	3.6
82.5°	156.1	61.7	23.6	14.6	7.3	7.3	3.6	0.0	0.0	0.0	0.0
85°	92.6	25.4	10.9	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	5.4	3.6	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)