

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: P963995

Luminaire Tested: **NAV-SB3B-730-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-730-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14765.1 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

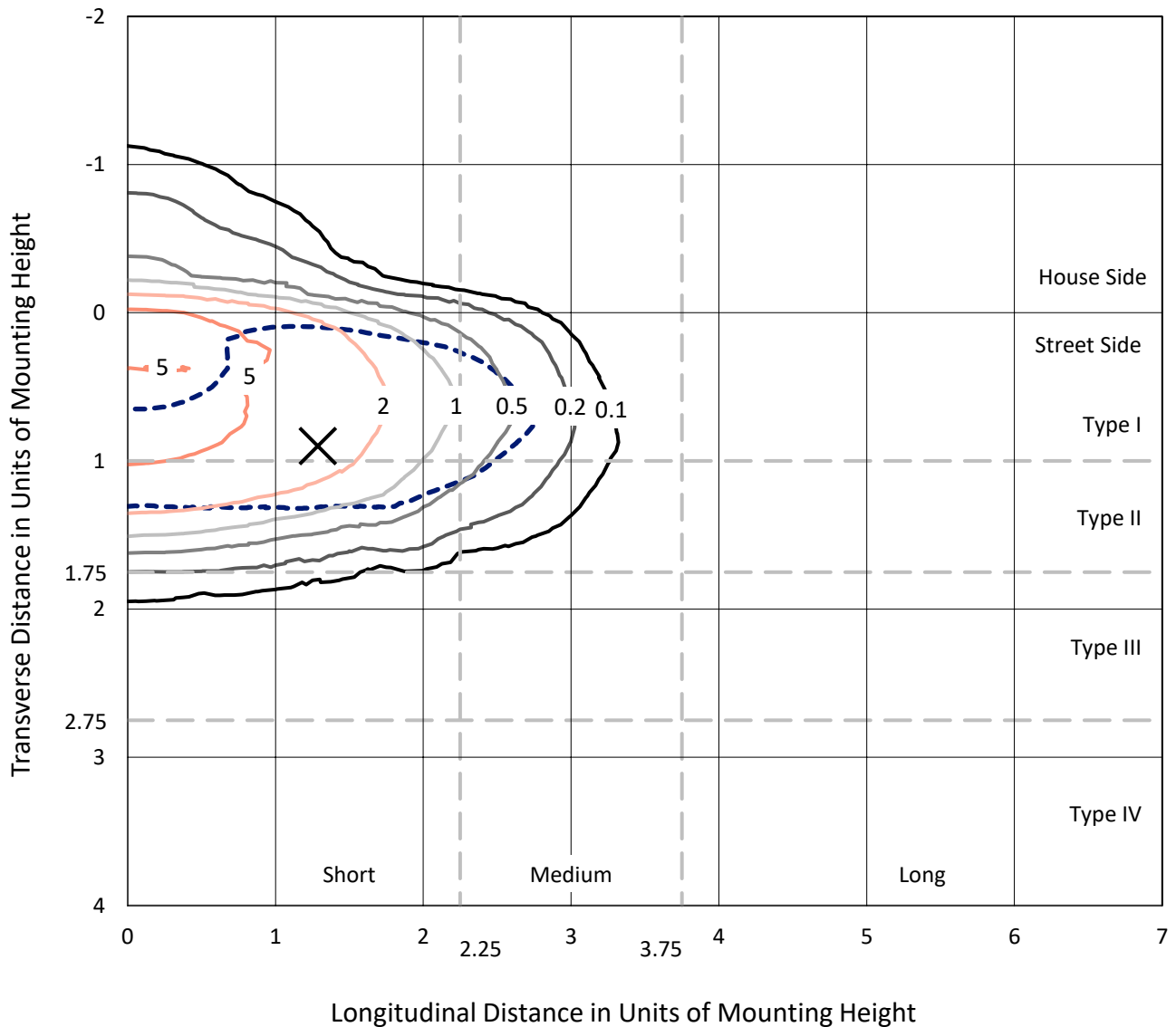
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

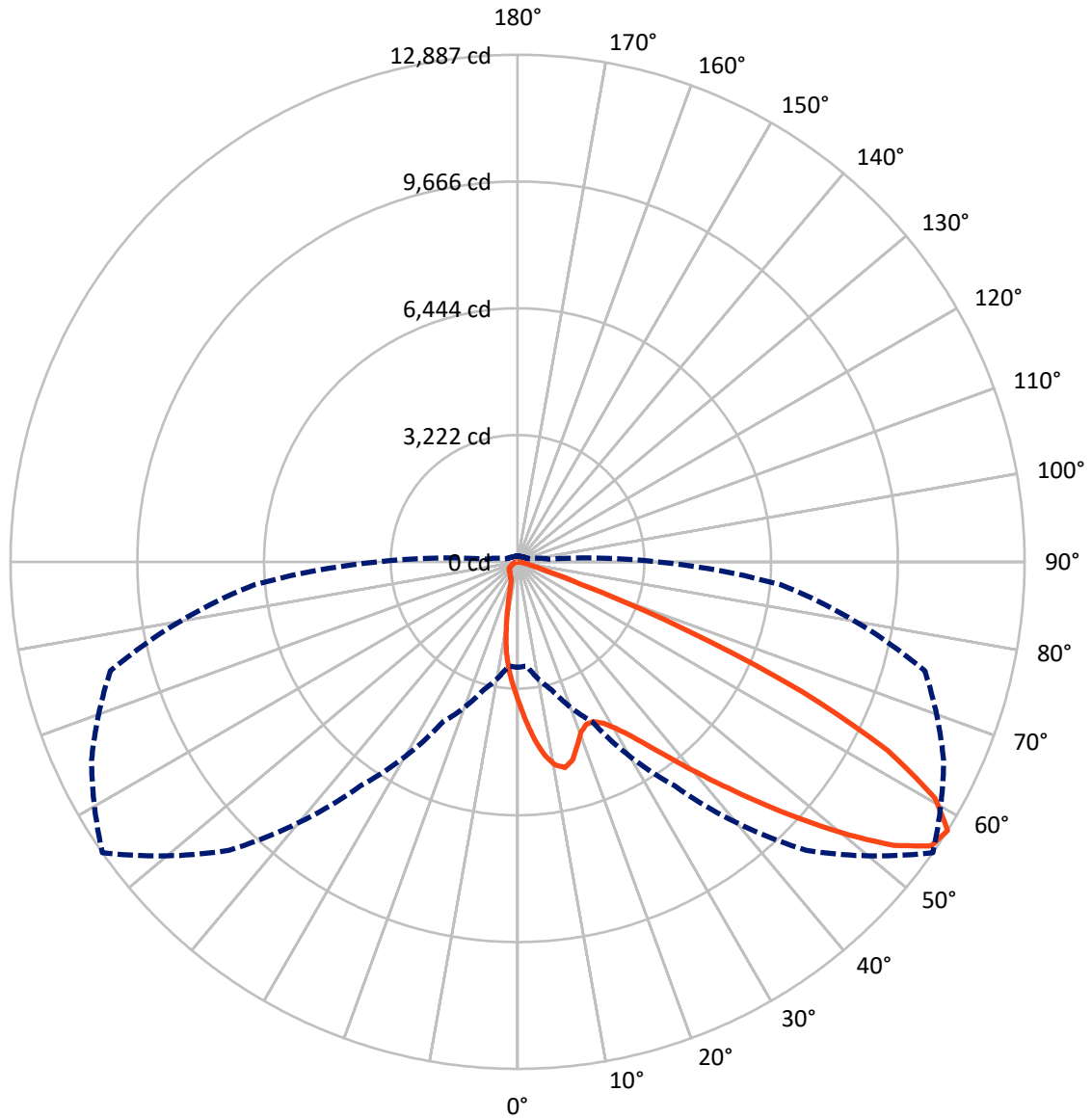
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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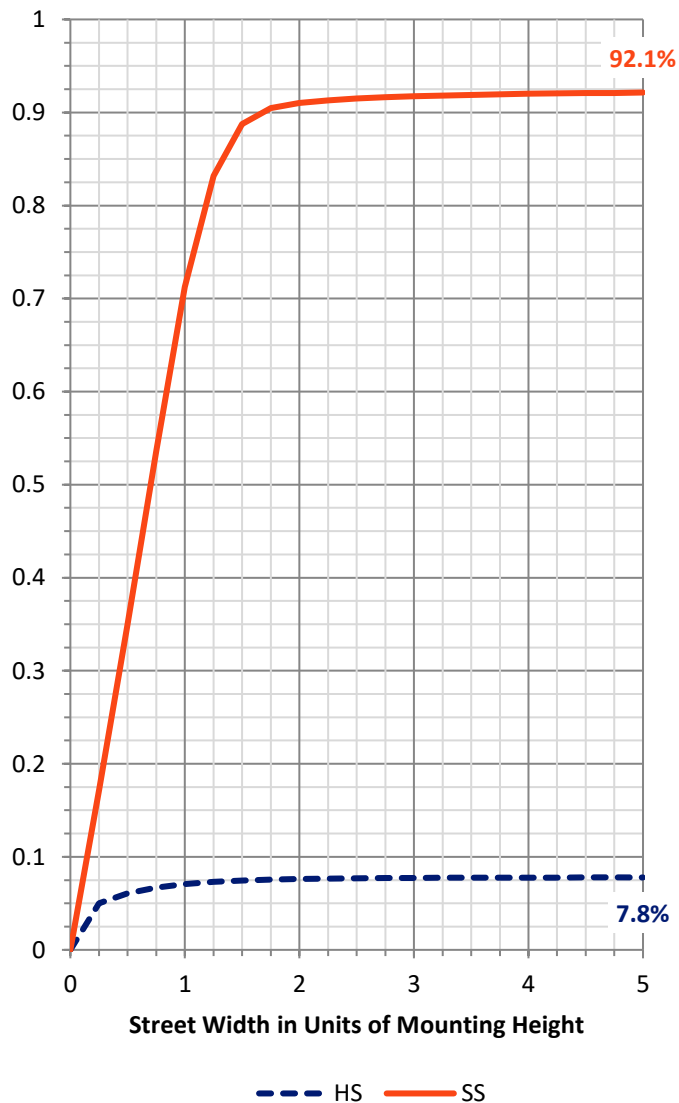
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1153.1	0.0	1153.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	13612.0	0.0	13612.0
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	14765.1	0.0	14765.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.1	2.2
10°-20°	799.7	5.4
20°-30°	1279.5	8.7
30°-40°	2165.5	14.7
40°-50°	3555.4	24.1
50°-60°	3907.6	26.5
60°-70°	2241.4	15.2
70°-80°	458.0	3.1
80°-90°	27.0	0.2
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°	14765.1	100.0
0°-180°	14765.1	100.0

**Coefficient of Utilization**

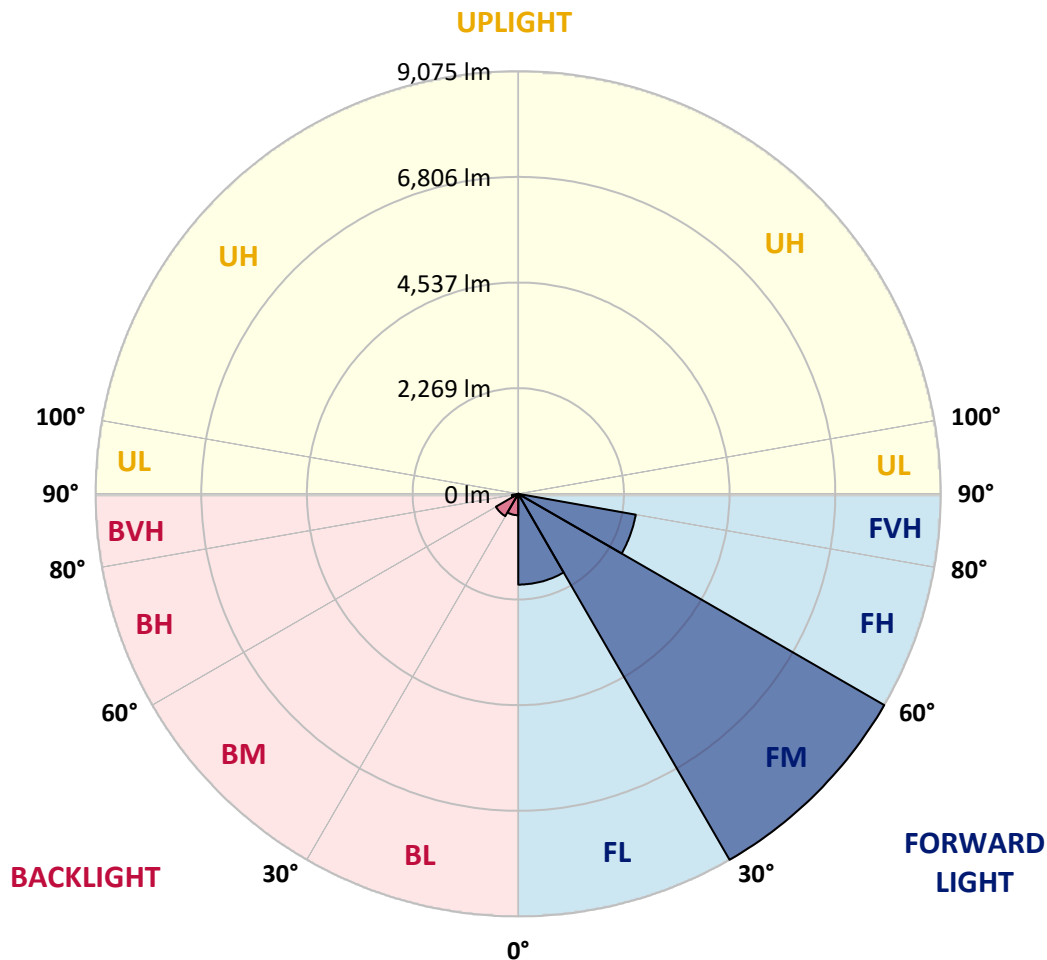


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.8	13.2			
FM (30°-60°)	9074.8	61.5			
FH (60°-80°)	2562.3	17.4			G2/5000
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	460.3	3.1	B1/500		
BM (30°-60°)	553.8	3.8	B1/1000		
BH (60°-80°)	137.1	0.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0
2.5°	4414.8	4359.2	4351.0	4340.1	4234.5	4155.2	4040.6	3914.9	3773.8	3629.9	3566.2
5°	5100.3	5056.6	5048.4	4997.5	4877.3	4742.6	4538.6	4280.9	4017.8	3708.2	3575.3
7.5°	5233.2	5225.0	5262.3	5260.6	5244.2	5137.6	4965.6	4658.7	4263.6	3804.8	3599.0
10°	4640.6	4661.5	4772.6	4870.0	5133.1	5286.0	5248.7	4995.6	4516.8	3914.9	3625.4
12.5°	4100.6	4076.1	4155.2	4265.4	4571.4	5026.6	5366.2	5277.0	4806.2	4039.6	3664.6
15°	3762.0	3751.9	3796.6	3847.5	4080.6	4539.5	5229.7	5505.5	5084.8	4187.1	3723.7
17.5°	3653.6	3645.4	3659.0	3671.9	3822.9	4178.0	4904.6	5645.7	5351.6	4355.6	3789.3
20°	3742.0	3731.0	3729.2	3719.2	3782.0	4024.2	4610.6	5655.7	5591.1	4508.6	3845.7
22.5°	3999.6	3986.8	3942.3	3902.2	3907.6	4045.2	4479.5	5555.6	5771.4	4651.4	3881.3
25°	4466.6	4445.7	4352.9	4218.1	4132.5	4190.8	4499.4	5423.6	5943.4	4763.5	3863.9
27.5°	5051.2	5023.8	4904.6	4704.2	4508.6	4437.5	4644.2	5332.5	6086.3	4849.1	3826.6
30°	5623.9	5588.3	5470.8	5315.2	5029.3	4805.3	4905.4	5372.5	6256.6	4938.2	3777.4
32.5°	6242.0	6208.3	6052.6	5859.6	5622.9	5321.6	5263.3	5568.3	6465.1	5063.0	3742.9
35°	7024.1	6971.3	6750.0	6486.9	6235.7	5930.6	5747.7	5906.0	6742.8	5253.3	3762.0
37.5°	7914.5	7843.5	7605.0	7241.7	6913.9	6572.5	6337.7	6370.4	7149.8	5508.2	3821.2
40°	8753.9	8689.3	8469.0	8126.6	7715.2	7300.9	7050.5	6977.7	7711.5	5818.7	3924.9
42.5°	9257.4	9199.2	9106.3	8961.6	8614.6	8192.2	7876.3	7718.8	8376.1	6190.2	4051.5
45°	9285.7	9234.6	9359.4	9527.9	9459.5	9178.3	8793.1	8504.5	9043.5	6538.9	4182.6
47.5°	8834.1	8799.5	9178.3	9766.4	10059.6	10177.9	9822.8	9224.7	9594.3	6789.2	4236.3
50°	7603.1	7590.4	8369.7	9449.6	10288.0	11053.7	10909.0	9894.7	10021.3	6918.5	4185.3
52.5°	6592.6	6546.2	7000.4	8435.3	9955.7	11514.4	11970.6	10552.1	10319.9	6943.0	4066.1
55°	5000.2	4959.3	5529.2	6738.2	8884.2	11350.5	12747.2	11230.4	10533.9	6880.2	3852.2
57.5°	2682.2	2656.7	3376.9	4484.9	6944.9	10367.3	12887.4	11947.8	10714.1	6713.6	3552.5
60°	1044.3	1039.8	1309.2	2176.0	4220.8	8434.4	12180.0	12378.4	10827.1	6508.7	3302.2
62.5°	631.8	645.5	689.2	976.9	1864.6	5239.6	10549.4	11888.7	10902.6	6321.3	3095.5
65°	522.6	523.5	529.0	671.0	893.2	2192.4	7941.8	10277.2	10716.0	5987.1	2802.4
67.5°	447.9	456.1	477.0	532.6	630.1	961.4	4572.3	7961.0	9580.7	5209.6	2345.3
70°	353.2	364.2	390.6	437.9	486.2	601.8	1689.8	5297.0	7319.1	3926.8	1773.6
72.5°	297.8	296.8	310.5	356.0	386.0	423.3	650.1	2968.1	4253.6	1874.6	877.7
75°	230.3	239.4	256.8	297.8	315.9	306.8	352.3	1084.3	1524.1	568.2	298.6
77.5°	180.3	187.6	203.1	243.1	261.3	217.6	203.1	387.9	489.8	204.0	134.8
80°	81.1	87.4	138.4	179.4	213.0	150.3	110.2	198.4	217.6	92.9	68.3
82.5°	14.6	24.6	81.1	94.7	109.3	97.4	57.4	102.9	106.5	37.3	23.7
85°	0.9	1.8	28.2	34.6	43.7	31.9	17.3	41.0	35.5	12.7	9.1
87.5°	0.0	0.0	0.0	0.9	0.9	4.5	5.4	7.3	5.4	4.5	3.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0	3558.0
2.5°	3500.7	3371.4	3245.8	3142.9	3082.8	2980.8	2913.5	2902.5	2874.3	2898.9
5°	3433.3	3202.0	2968.1	2758.7	2586.6	2364.5	2198.7	2128.6	2067.6	2088.5
7.5°	3401.5	3036.4	2672.2	2314.3	1946.6	1591.4	1327.5	1217.3	1133.5	1145.3
10°	3358.6	2864.3	2293.4	1747.1	1254.6	904.0	722.0	654.6	617.3	618.2
12.5°	3325.8	2658.5	1853.7	1184.5	763.8	577.2	520.8	504.4	493.4	494.4
15°	3309.5	2416.3	1419.4	789.4	546.2	488.9	475.3	468.0	460.7	459.8
17.5°	3282.2	2146.9	1038.8	576.4	478.0	458.0	446.1	437.9	428.9	427.0
20°	3241.2	1840.9	759.3	487.1	447.9	432.4	416.0	405.2	394.2	392.4
22.5°	3165.6	1517.7	583.6	450.7	426.1	408.8	388.8	376.0	365.1	363.3
25°	3025.4	1214.5	491.7	427.9	406.9	386.0	364.2	346.9	336.8	335.1
27.5°	2847.9	954.2	446.1	406.9	382.4	363.3	338.7	322.3	313.2	311.4
30°	2638.5	734.7	419.7	383.2	353.2	336.8	315.0	301.3	295.9	295.9
32.5°	2412.6	587.2	408.8	359.7	327.8	309.5	292.2	286.8	285.0	284.0
35°	2200.6	509.8	403.3	340.5	305.0	287.7	280.4	281.4	285.0	285.0
37.5°	2012.1	485.2	400.6	326.9	285.0	269.5	274.1	282.3	278.6	278.6
40°	1841.8	488.0	398.8	316.8	268.5	259.4	268.5	262.2	253.1	252.2
42.5°	1711.6	510.8	395.1	308.6	258.6	252.2	248.6	238.5	237.6	239.4
45°	1616.9	530.7	394.2	305.0	247.6	235.9	231.2	221.2	239.4	244.0
47.5°	1505.0	530.7	394.2	292.2	229.4	224.9	217.6	206.6	224.9	229.4
50°	1360.2	497.1	378.7	277.7	214.8	212.2	199.4	185.7	182.0	184.8
52.5°	1177.2	436.1	339.6	257.7	200.3	194.9	179.4	169.3	166.6	166.6
55°	968.7	365.1	286.8	228.5	184.8	174.8	163.9	159.3	156.6	154.8
57.5°	787.5	299.5	230.3	203.1	170.3	157.5	153.9	148.4	143.8	141.1
60°	646.5	235.9	190.2	180.3	155.7	143.8	143.0	135.6	123.8	122.0
62.5°	499.0	173.0	160.2	156.6	141.1	131.1	129.3	114.7	96.6	92.9
65°	352.3	134.8	129.3	137.5	125.7	116.5	112.0	90.1	71.0	68.3
67.5°	247.6	112.9	102.0	120.1	109.3	97.4	94.7	76.5	59.1	57.4
70°	176.6	91.9	83.7	102.9	87.4	85.6	80.2	63.8	48.3	46.4
72.5°	124.7	70.1	64.7	89.2	60.1	73.7	65.6	49.2	36.4	34.6
75°	91.9	50.1	45.5	51.9	43.7	55.6	46.4	32.8	22.8	21.8
77.5°	67.3	31.9	27.3	25.5	25.5	34.6	25.5	13.6	10.0	9.1
80°	47.4	14.6	12.7	11.0	10.0	8.2	3.7	1.8	0.9	0.9
82.5°	28.2	6.4	6.4	4.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	6.4	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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

(END OF REPORT)