

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: P970815

Luminaire Tested: **NAV-SB6C-727-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970815  
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-SB6C-727-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA 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: 36812.9 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

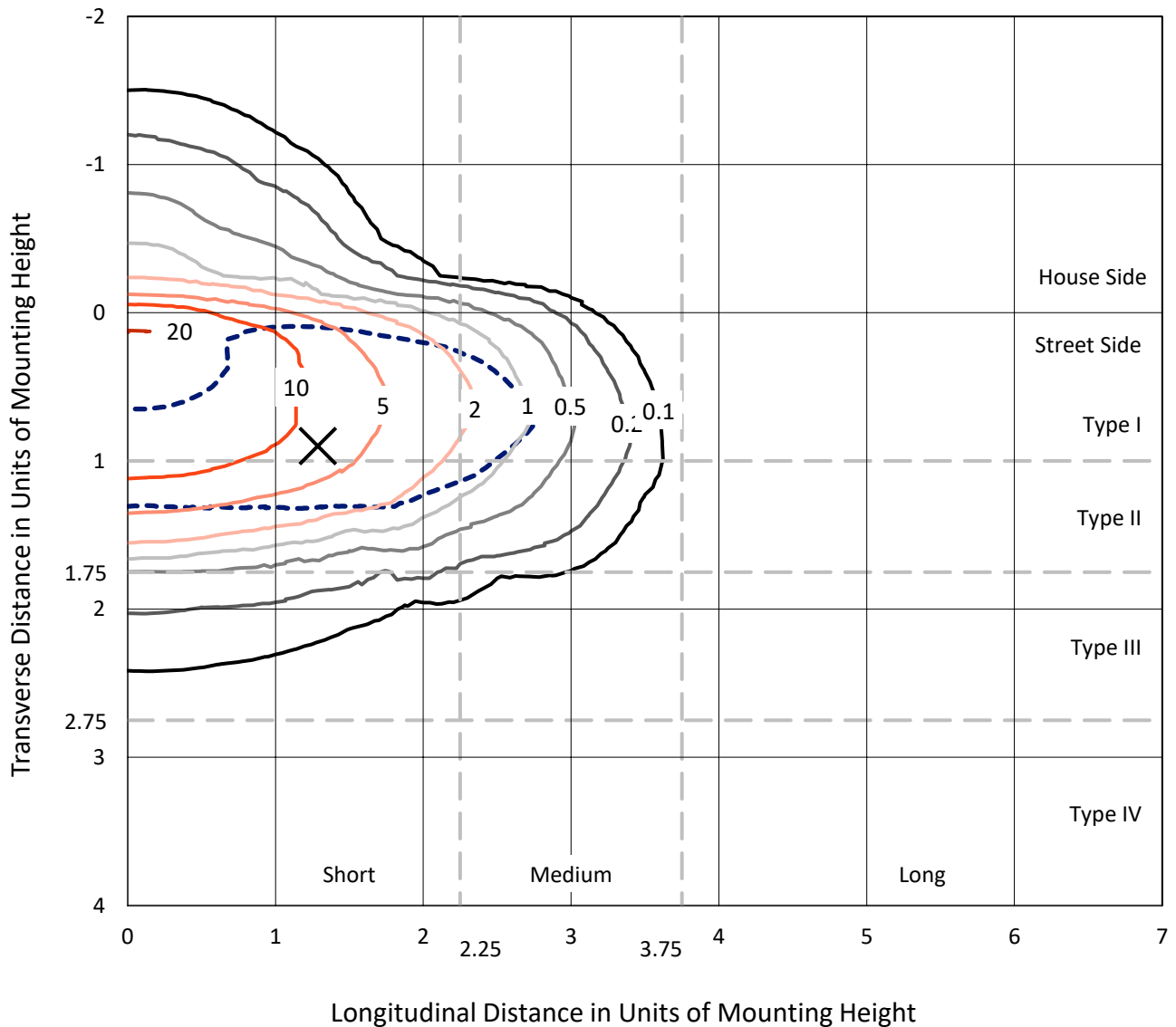
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

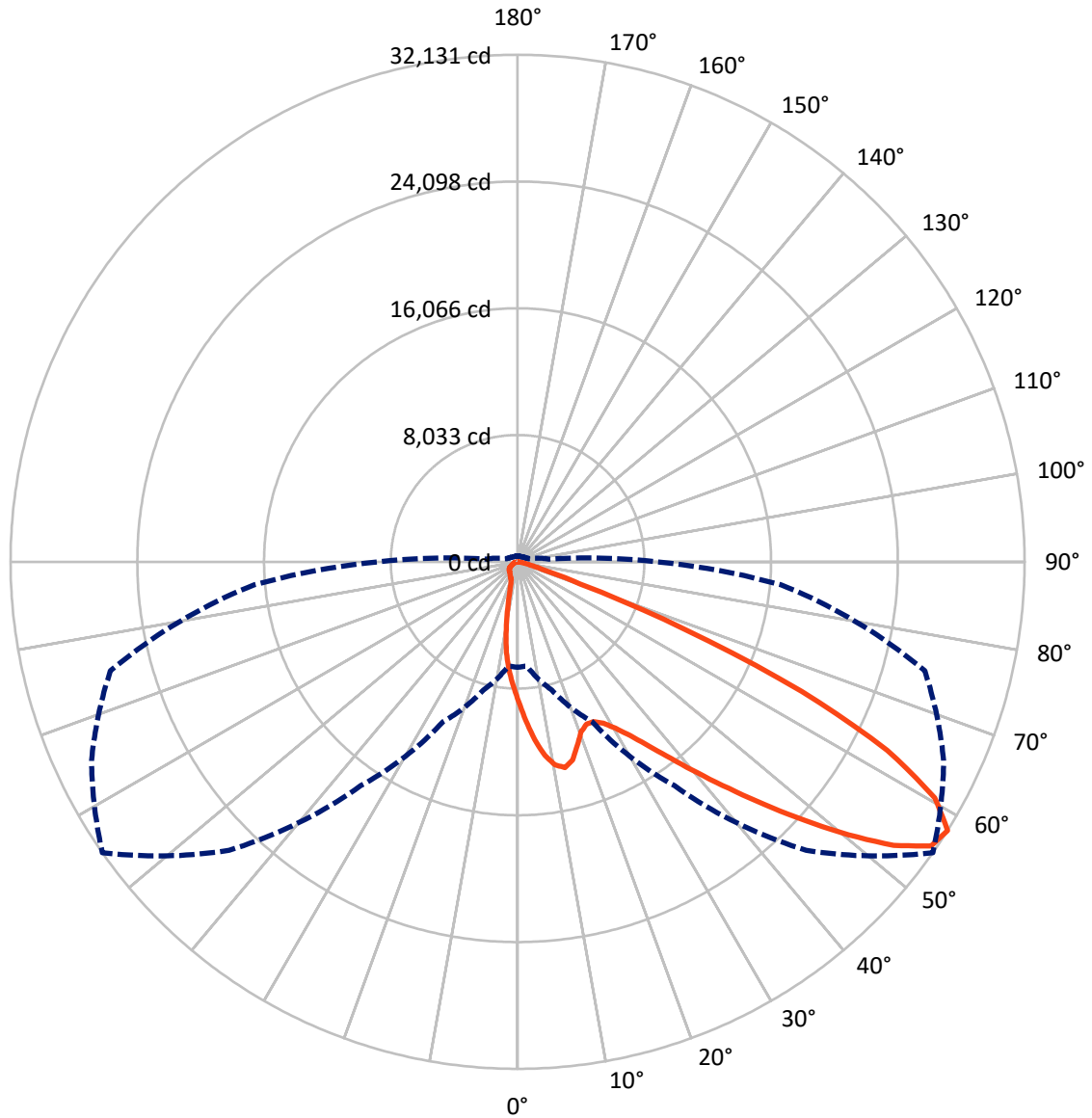
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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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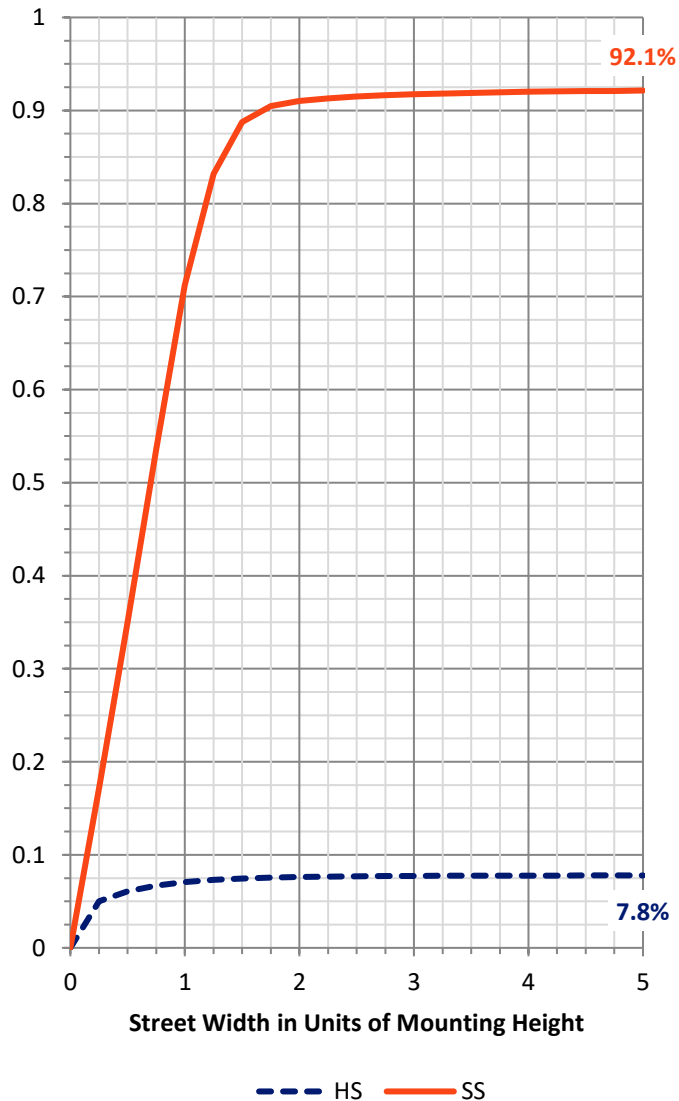
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2874.9	0.0	2874.9
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	33937.9	0.0	33937.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	36812.9	0.0	36812.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.4	2.2
10°-20°	1993.7	5.4
20°-30°	3190.0	8.7
30°-40°	5399.2	14.7
40°-50°	8864.4	24.1
50°-60°	9742.6	26.5
60°-70°	5588.3	15.2
70°-80°	1141.9	3.1
80°-90°	67.4	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°	36812.9	100.0
0°-180°	36812.9	100.0

**Coefficient of Utilization**



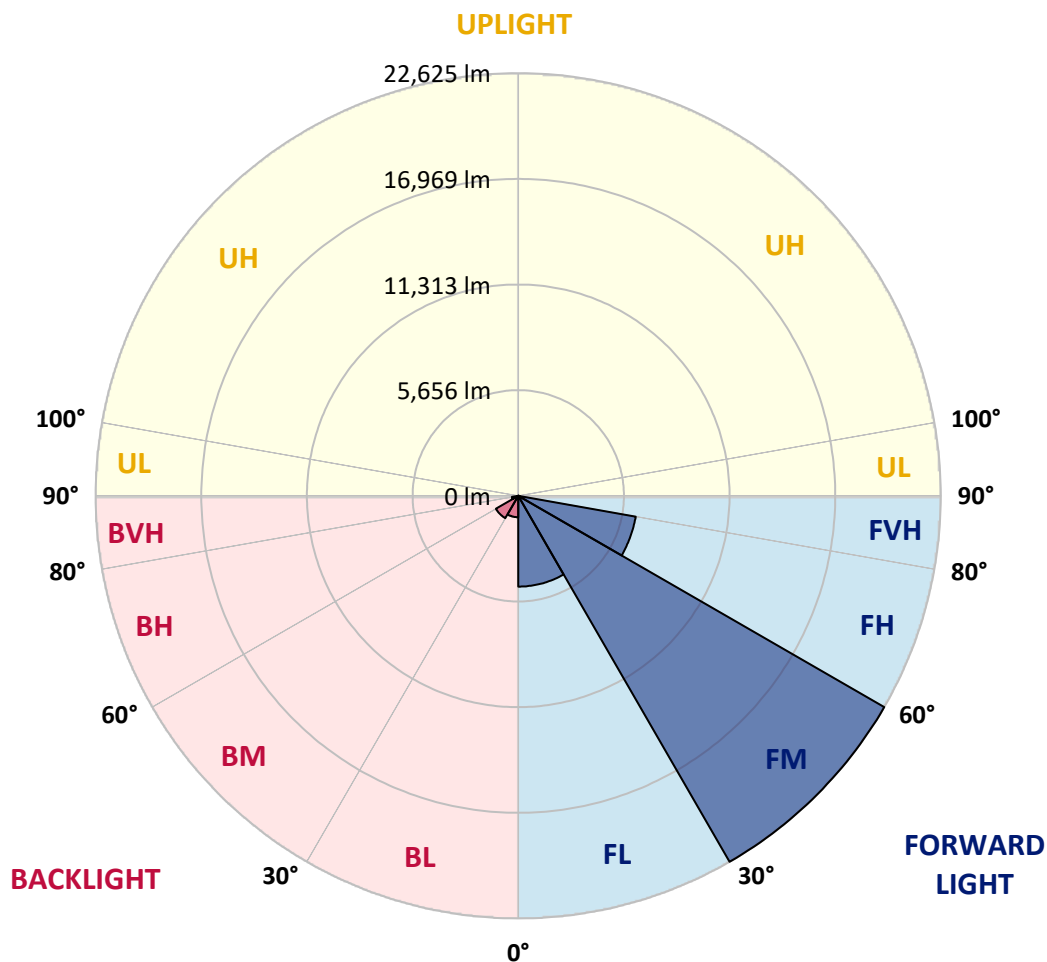
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4861.4	13.2			
FM (30°-60°)	22625.5	61.5			
FH (60°-80°)	6388.3	17.4			G3/7500
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	1147.7	3.1	B3/2500		
BM (30°-60°)	1380.7	3.8	B2/2500		
BH (60°-80°)	341.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0
2.5°	11007.1	10868.6	10848.1	10820.9	10557.6	10360.1	10074.1	9760.9	9409.0	9050.3	8891.5
5°	12716.4	12607.4	12586.9	12459.8	12160.2	11824.2	11315.7	10673.3	10017.3	9245.5	8914.1
7.5°	13047.7	13027.2	13120.3	13115.8	13075.0	12809.3	12380.4	11615.4	10630.2	9486.2	8973.2
10°	11570.0	11622.2	11899.1	12142.0	12798.0	13179.3	13086.3	12455.3	11261.3	9760.9	9039.0
12.5°	10223.9	10162.6	10360.1	10634.8	11397.5	12532.5	13379.1	13156.7	11983.1	10071.8	9136.5
15°	9379.5	9354.5	9465.8	9592.9	10173.9	11318.0	13038.6	13726.4	12677.7	10439.5	9284.1
17.5°	9109.4	9088.9	9122.9	9154.8	9531.6	10416.9	12228.2	14076.0	13342.8	10859.5	9447.5
20°	9329.6	9302.3	9297.8	9272.8	9429.4	10033.2	11495.1	14101.0	13939.8	11240.9	9588.3
22.5°	9971.9	9940.1	9828.9	9729.0	9742.6	10085.4	11168.2	13851.2	14389.3	11597.3	9676.8
25°	11136.4	11084.2	10852.7	10516.7	10303.3	10448.6	11218.1	13522.1	14818.3	11876.5	9633.7
27.5°	12593.8	12525.6	12228.2	11728.9	11240.9	11063.7	11579.0	13295.2	15174.7	12089.8	9540.6
30°	14021.5	13933.0	13640.2	13252.0	12539.2	11980.8	12230.5	13395.0	15599.2	12312.3	9418.0
32.5°	15562.9	15478.8	15090.7	14609.4	14019.2	13267.9	13122.7	13883.1	16118.9	12623.3	9331.8
35°	17512.7	17381.0	16829.5	16173.5	15546.9	14786.5	14330.2	14725.3	16811.3	13097.7	9379.5
37.5°	19732.8	19555.7	18961.0	18055.3	17238.0	16386.8	15801.2	15882.9	17826.0	13733.3	9527.0
40°	21825.6	21664.5	21115.1	20261.7	19235.7	18202.8	17578.5	17396.9	19226.5	14507.3	9785.8
42.5°	23080.9	22935.6	22704.2	22343.2	21478.4	20425.1	19637.4	19244.7	20883.7	15433.4	10101.3
45°	23151.3	23024.2	23335.1	23755.1	23584.8	22883.4	21923.2	21203.7	22547.5	16302.8	10428.1
47.5°	22025.4	21939.1	22883.4	24349.8	25080.7	25375.8	24490.5	22999.3	23920.8	16927.1	10562.1
50°	18956.5	18924.7	20867.8	23559.9	25650.5	27559.6	27198.7	24669.9	24985.4	17249.4	10435.0
52.5°	16436.8	16321.0	17453.7	21031.2	24822.0	28708.2	29845.4	26308.8	25730.0	17310.7	10137.7
55°	12466.6	12364.5	13785.4	16800.0	22150.2	28299.5	31781.7	27999.9	26263.4	17154.1	9604.1
57.5°	6687.3	6623.8	8419.2	11181.8	17315.2	25848.0	32131.3	29788.7	26712.8	16738.7	8857.3
60°	2603.6	2592.3	3264.2	5425.2	10523.6	21028.9	30367.5	30862.3	26994.3	16227.9	8233.1
62.5°	1575.3	1609.4	1718.3	2435.7	4648.9	13063.6	26302.0	29641.2	27182.8	15760.3	7717.8
65°	1303.0	1305.2	1318.9	1673.0	2226.8	5466.0	19800.8	25623.3	26717.4	14927.3	6986.9
67.5°	1116.8	1137.2	1189.4	1327.9	1570.8	2397.1	11399.7	19848.5	23886.8	12988.7	5847.4
70°	880.8	907.9	973.9	1091.8	1212.2	1500.4	4213.1	13206.6	18248.2	9790.3	4421.8
72.5°	742.3	740.0	774.1	887.5	962.5	1055.5	1620.7	7400.1	10605.3	4673.8	2188.3
75°	574.3	597.0	640.1	742.3	787.7	765.0	878.4	2703.5	3799.9	1416.4	744.6
77.5°	449.5	467.6	506.2	606.1	651.5	542.5	506.2	967.0	1221.3	508.5	336.0
80°	202.0	217.9	345.0	447.2	531.2	374.5	274.7	494.9	542.5	231.5	170.3
82.5°	36.3	61.3	202.0	236.1	272.4	242.9	143.0	256.5	265.6	93.1	59.0
85°	2.3	4.5	70.4	86.3	109.0	79.4	43.2	102.2	88.6	31.8	22.7
87.5°	0.0	0.0	0.0	2.3	2.3	11.4	13.6	18.1	13.6	11.4	9.1
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°	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0	8871.0
2.5°	8728.0	8405.6	8092.4	7835.9	7686.1	7431.9	7263.9	7236.6	7166.3	7227.6
5°	8560.0	7983.4	7400.1	6878.0	6449.0	5895.1	5481.9	5307.1	5155.0	5207.3
7.5°	8480.5	7570.3	6662.3	5770.2	4853.2	3967.9	3309.6	3034.9	2826.1	2855.6
10°	8373.8	7141.3	5718.1	4356.0	3128.0	2254.1	1800.1	1632.1	1539.0	1541.3
12.5°	8292.1	6628.3	4621.6	2953.2	1904.4	1439.2	1298.4	1257.6	1230.3	1232.6
15°	8251.2	6024.4	3538.9	1968.1	1362.0	1218.9	1184.9	1166.8	1148.6	1146.4
17.5°	8183.2	5352.5	2590.1	1436.8	1191.8	1141.7	1112.3	1091.8	1069.2	1064.6
20°	8081.1	4589.8	1893.2	1214.4	1116.8	1078.2	1037.4	1010.1	982.9	978.4
22.5°	7892.6	3784.0	1455.1	1123.6	1062.3	1019.3	969.2	937.5	910.3	905.7
25°	7543.1	3028.2	1225.8	1066.9	1014.6	962.5	907.9	864.9	839.9	835.4
27.5°	7100.4	2378.9	1112.3	1014.6	953.4	905.7	844.4	803.6	780.8	776.3
30°	6578.3	1831.9	1046.4	955.6	880.8	839.9	785.4	751.3	737.7	737.7
32.5°	6015.4	1464.1	1019.3	896.7	817.2	771.8	728.7	715.0	710.5	708.3
35°	5486.5	1271.2	1005.6	849.0	760.4	717.3	699.2	701.4	710.5	710.5
37.5°	5016.7	1209.9	998.8	814.9	710.5	671.9	683.3	703.7	694.6	694.6
40°	4592.1	1216.7	994.2	790.0	669.6	647.0	669.6	653.7	631.1	628.7
42.5°	4267.5	1273.5	985.1	769.5	644.6	628.7	619.7	594.7	592.4	597.0
45°	4031.4	1323.4	982.9	760.4	617.5	587.9	576.6	551.6	597.0	608.3
47.5°	3752.2	1323.4	982.9	728.7	572.1	560.7	542.5	515.3	560.7	572.1
50°	3391.3	1239.4	944.3	692.4	535.7	528.9	497.1	463.1	454.0	460.8
52.5°	2935.1	1087.3	846.6	642.4	499.4	485.7	447.2	422.2	415.4	415.4
55°	2415.2	910.3	715.0	569.8	460.8	435.8	408.6	397.3	390.4	385.9
57.5°	1963.5	746.8	574.3	506.2	424.5	392.7	383.7	370.0	358.6	351.9
60°	1611.7	587.9	474.4	449.5	388.2	358.6	356.4	338.2	308.7	304.2
62.5°	1243.9	431.3	399.5	390.4	351.9	326.9	322.4	286.0	240.6	231.5
65°	878.4	336.0	322.4	342.8	313.2	290.6	279.2	224.7	177.0	170.3
67.5°	617.5	281.5	254.2	299.6	272.4	242.9	236.1	190.6	147.5	143.0
70°	440.3	229.3	208.8	256.5	217.9	213.4	199.8	158.9	120.3	115.7
72.5°	311.0	174.8	161.1	222.4	149.9	183.9	163.5	122.6	90.8	86.3
75°	229.3	124.8	113.5	129.4	109.0	138.5	115.7	81.7	56.8	54.5
77.5°	168.0	79.4	68.1	63.6	63.6	86.3	63.6	34.0	25.0	22.7
80°	118.1	36.3	31.8	27.3	25.0	20.4	9.1	4.5	2.3	2.3
82.5°	70.4	15.9	15.9	11.4	6.8	0.0	0.0	0.0	0.0	0.0
85°	15.9	6.8	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	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)