

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: P961318

Luminaire Tested: **NAV-SB2A-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961318  
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-SB2A-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

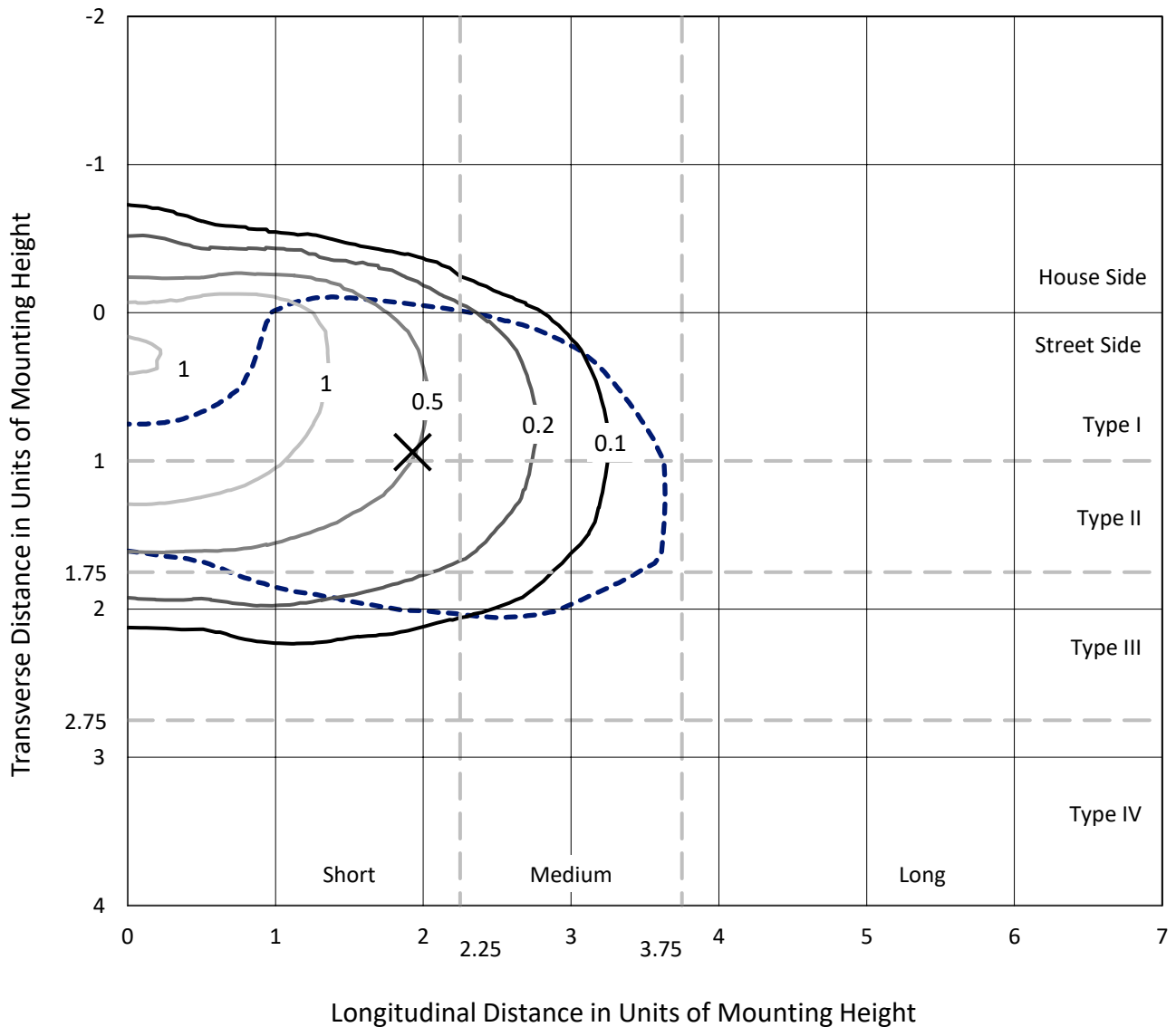
Lumens per Lamp: N/A  
Luminaire Lumens: 5957.3 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

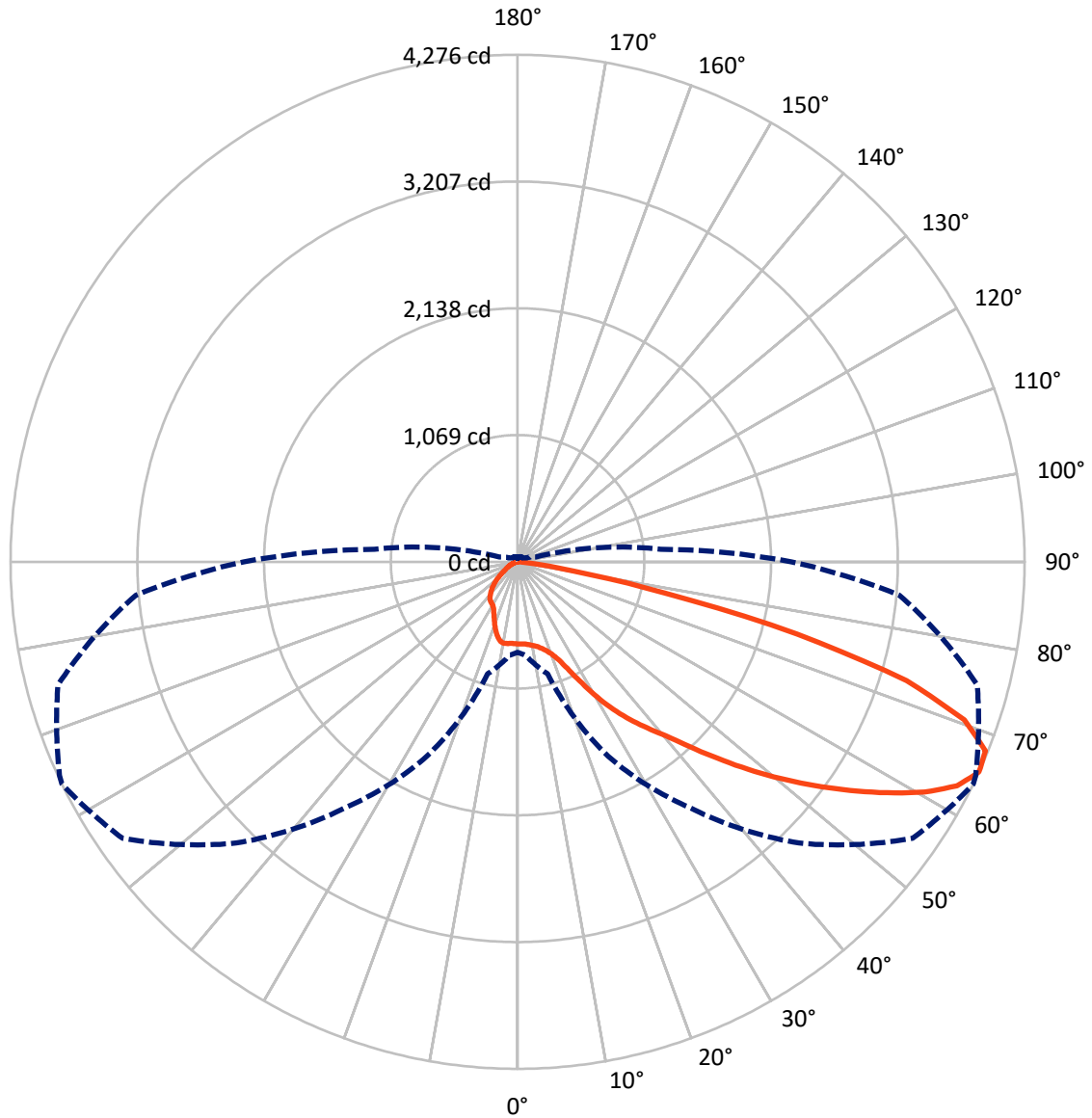
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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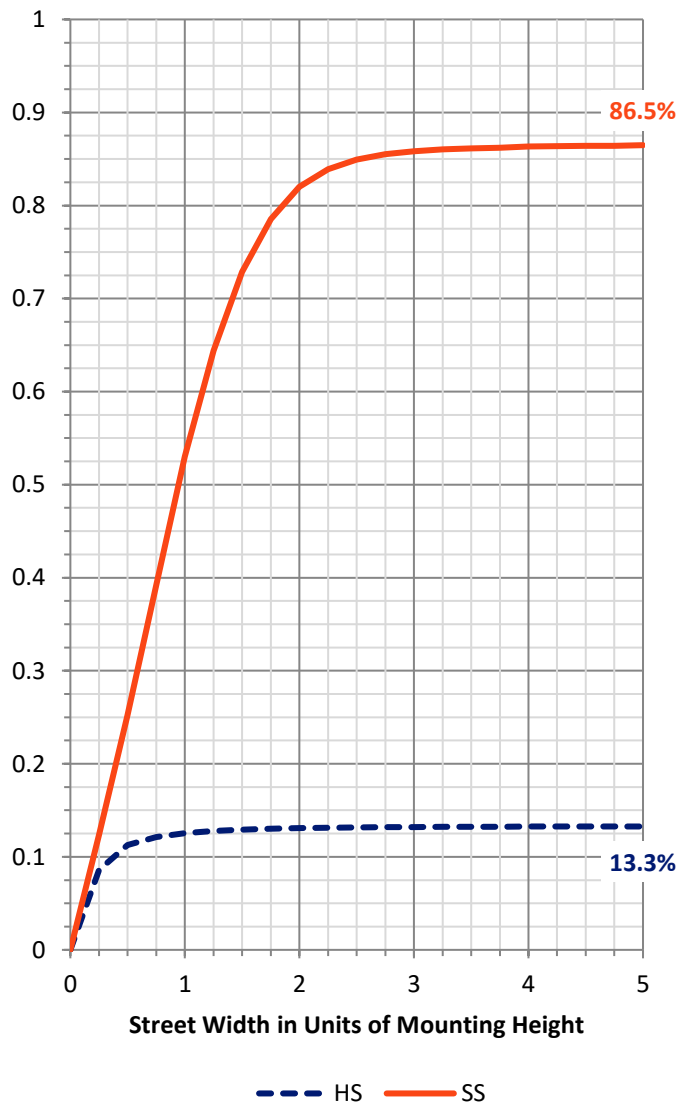
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	796.7	0.0	796.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5160.6	0.0	5160.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5957.3	0.0	5957.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	173.4	2.9
20°-30°	328.6	5.5
30°-40°	664.8	11.2
40°-50°	1132.6	19.0
50°-60°	1540.2	25.9
60°-70°	1446.3	24.3
70°-80°	579.5	9.7
80°-90°	28.1	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°	5957.3	100.0
0°-180°	5957.3	100.0

**Coefficient of Utilization**



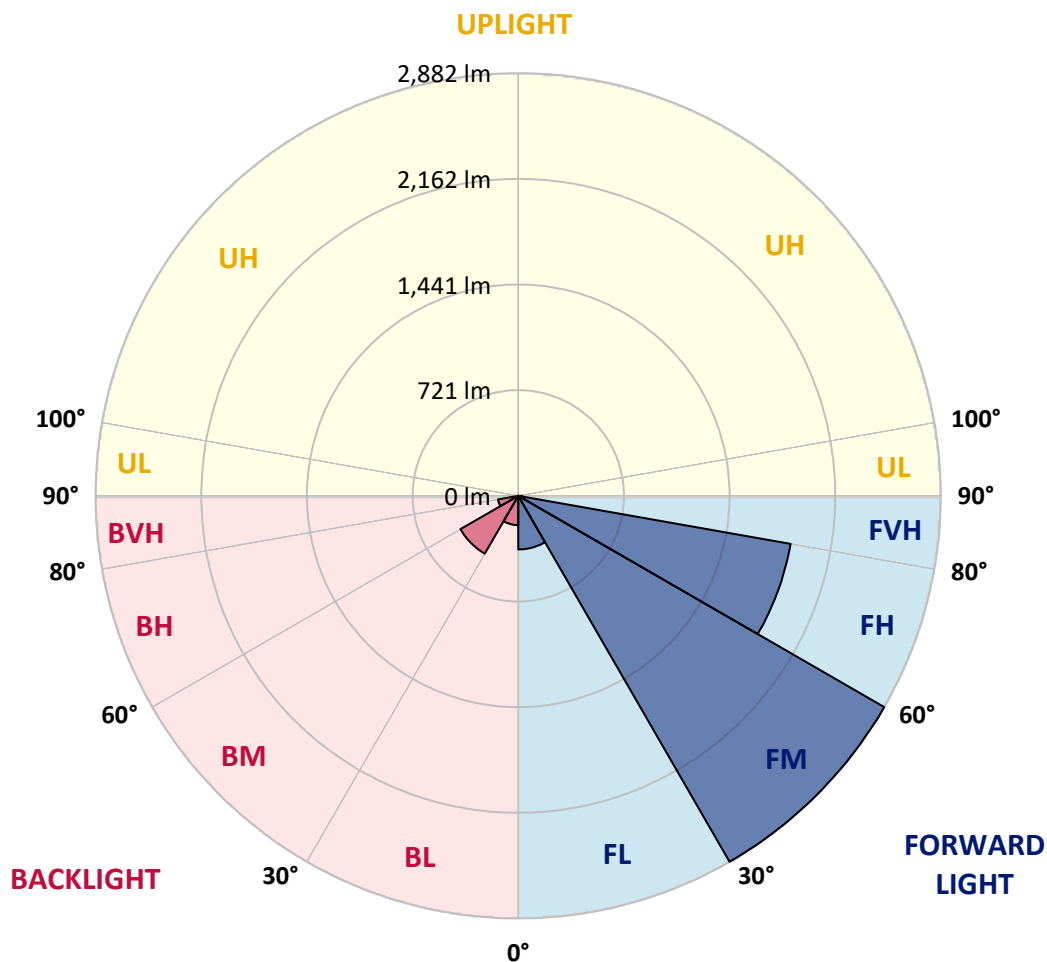
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.8	6.1			
FM (30°-60°)	2882.1	48.4			
FH (60°-80°)	1886.0	31.7			G2/5000
FVH (80°-90°)	26.7	0.4			G1/100
BL (0°-30°)	200.0	3.4	B1/500		
BM (30°-60°)	455.5	7.6	B1/1000		
BH (60°-80°)	139.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	690.5	695.3	694.1	692.9	692.5	693.3	693.7	693.3	693.3	693.3	693.7
5°	677.3	681.3	681.3	684.1	688.1	692.9	696.5	697.3	698.1	699.3	698.8
7.5°	652.2	655.4	657.7	667.0	676.9	689.7	700.5	706.1	706.8	711.2	712.9
10°	635.0	639.0	643.0	652.5	667.0	686.1	704.5	718.0	720.1	730.4	735.2
12.5°	634.2	638.2	643.4	653.7	670.6	690.8	713.3	732.9	736.5	751.6	761.6
15°	642.6	647.4	652.2	664.9	683.0	707.7	731.6	756.0	759.6	781.2	791.9
17.5°	659.8	666.1	669.7	682.5	701.7	729.3	760.8	788.7	791.9	817.1	830.7
20°	693.7	701.3	702.4	712.9	731.6	761.2	798.7	833.4	837.4	866.2	881.4
22.5°	763.9	774.8	765.2	770.4	787.1	816.7	857.4	901.4	906.9	939.7	953.2
25°	887.8	902.9	878.2	869.4	876.6	907.3	958.5	1014.0	1020.4	1046.7	1053.5
27.5°	1131.0	1111.4	1073.9	1037.2	1015.6	1033.2	1090.7	1159.4	1167.4	1192.9	1184.9
30°	1398.2	1381.0	1330.2	1248.9	1197.7	1194.9	1248.0	1324.7	1333.8	1358.2	1333.8
32.5°	1665.7	1649.3	1594.3	1494.0	1405.4	1361.4	1398.2	1483.3	1488.0	1503.6	1467.7
35°	1928.9	1912.1	1857.0	1754.4	1645.3	1545.5	1538.3	1634.2	1635.8	1652.2	1598.7
37.5°	2193.7	2179.8	2121.0	2020.4	1913.0	1775.2	1708.5	1777.1	1779.2	1795.2	1739.6
40°	2382.6	2388.6	2348.3	2270.4	2178.1	2027.6	1899.3	1929.4	1917.4	1944.1	1910.9
42.5°	2544.8	2556.8	2521.6	2482.4	2428.9	2296.3	2135.8	2130.6	2111.4	2125.8	2091.5
45°	2684.9	2694.9	2663.4	2654.1	2653.0	2559.9	2394.2	2363.0	2336.3	2333.5	2292.3
47.5°	2736.4	2755.6	2769.1	2799.9	2859.9	2820.7	2661.3	2613.0	2583.1	2561.2	2496.0
50°	2756.0	2776.4	2822.7	2912.1	3053.9	3070.7	2927.3	2873.0	2836.3	2796.3	2700.5
52.5°	2729.7	2766.0	2828.3	2978.9	3184.6	3271.2	3182.5	3135.0	3093.0	3028.0	2885.8
55°	2574.3	2610.7	2738.1	2978.0	3249.7	3411.7	3423.7	3402.6	3355.4	3252.8	3035.5
57.5°	2246.8	2300.7	2502.4	2876.7	3248.4	3532.8	3660.2	3675.3	3622.7	3475.7	3153.4
60°	1793.1	1866.2	2112.2	2651.8	3148.2	3598.3	3867.4	3943.3	3887.4	3695.3	3248.8
62.5°	1251.2	1335.9	1568.7	2299.5	2919.0	3551.1	4018.8	4158.9	4116.6	3891.8	3285.5
65°	763.2	790.4	978.1	1809.5	2529.2	3353.9	4065.6	4275.6	4261.6	4012.1	3231.2
67.5°	508.4	531.2	585.1	1240.9	1963.3	2959.7	3953.7	4255.2	4259.2	3992.5	3032.4
70°	306.3	325.8	361.0	721.6	1272.3	2342.6	3607.5	3995.7	4018.8	3730.9	2655.4
72.5°	126.2	139.4	171.3	327.1	659.0	1486.9	2872.7	3430.6	3484.5	3137.0	2037.9
75°	71.4	78.3	100.7	164.1	286.0	692.9	1740.0	2435.3	2514.8	2162.1	1226.0
77.5°	47.6	50.7	65.1	106.2	160.9	236.5	743.6	1268.7	1420.5	1180.9	530.7
80°	32.0	34.7	44.7	71.1	104.7	101.5	236.8	470.1	578.3	405.8	129.4
82.5°	21.5	21.9	32.0	46.7	66.3	49.1	69.9	146.2	183.7	117.4	49.1
85°	12.4	12.0	23.6	27.2	29.5	20.4	21.2	44.0	57.5	49.5	28.0
87.5°	1.6	2.4	9.2	7.2	4.0	4.4	4.4	7.6	11.2	12.0	5.9
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	693.7	693.3	692.1	690.8	688.1	686.5	687.3	686.5	686.1	686.5	688.1
5°	698.8	697.7	694.5	690.5	684.9	678.1	673.7	667.4	661.3	657.7	658.6
7.5°	712.9	711.7	707.2	696.1	678.1	649.7	623.8	601.1	583.8	573.9	574.3
10°	735.2	733.2	726.4	701.7	654.6	592.7	541.1	498.4	470.5	457.3	456.0
12.5°	761.6	759.2	747.2	696.5	609.9	513.2	442.1	394.5	368.6	357.0	355.9
15°	792.7	789.6	766.0	671.7	544.7	425.3	360.2	324.7	307.9	297.6	298.0
17.5°	831.5	825.8	779.9	634.6	474.1	358.2	309.9	283.1	268.3	258.4	257.6
20°	881.8	872.6	791.1	590.3	409.0	315.9	275.9	253.6	242.4	233.6	232.1
22.5°	952.1	938.9	804.7	542.3	363.1	286.7	250.8	234.4	225.2	215.2	213.6
25°	1039.1	1023.6	821.5	498.0	331.5	261.6	232.5	218.8	208.1	196.5	195.3
27.5°	1160.9	1133.0	841.4	461.7	304.3	240.1	215.7	200.5	188.1	178.6	176.5
30°	1296.7	1250.8	859.1	439.7	279.5	220.1	193.7	178.6	167.0	160.1	159.0
32.5°	1425.4	1363.0	870.6	430.1	257.2	197.3	169.7	153.3	144.5	142.6	143.8
35°	1546.7	1464.4	869.4	421.0	237.2	174.6	146.2	129.4	122.6	123.8	123.8
37.5°	1686.5	1572.7	861.0	406.5	220.9	153.8	125.8	111.0	105.1	105.5	107.0
40°	1849.1	1697.7	855.9	379.4	202.8	134.6	109.1	97.1	92.7	91.0	90.6
42.5°	2022.4	1818.7	856.6	348.6	180.5	117.4	97.5	87.4	83.4	82.3	81.9
45°	2196.5	1934.1	857.8	316.7	156.9	104.2	89.1	80.7	78.3	76.7	76.7
47.5°	2360.3	2032.4	835.5	282.4	133.8	94.3	82.3	76.7	74.7	72.7	72.7
50°	2512.8	2097.9	781.6	242.4	115.4	86.3	77.1	73.1	71.1	69.1	69.1
52.5°	2631.4	2108.2	692.5	201.3	102.6	80.3	73.9	70.3	67.9	65.9	65.5
55°	2684.2	2043.1	565.9	163.0	92.7	75.0	70.7	67.1	64.3	62.3	61.9
57.5°	2670.5	1906.2	441.3	131.0	83.0	69.9	66.7	64.3	61.1	57.9	57.5
60°	2603.8	1722.8	332.7	109.1	74.3	64.3	62.3	60.3	55.9	51.1	50.3
62.5°	2488.4	1492.4	237.2	90.3	64.7	57.9	57.1	55.6	49.1	40.4	39.6
65°	2311.9	1212.5	159.7	75.0	55.6	50.7	51.1	48.3	40.0	29.9	29.1
67.5°	2053.9	886.6	102.2	61.5	46.3	42.3	42.7	41.1	33.9	25.5	24.4
70°	1725.3	587.0	66.7	46.7	37.1	32.7	35.2	35.6	28.8	20.8	20.0
72.5°	1264.7	346.7	46.7	34.7	27.2	22.8	28.8	29.5	23.2	15.6	14.8
75°	720.9	164.5	35.2	25.1	16.8	16.0	22.3	22.3	16.0	10.4	9.6
77.5°	302.7	68.7	24.8	16.4	9.6	9.2	15.2	13.9	8.0	4.8	4.8
80°	87.4	30.7	13.2	8.0	4.0	3.6	5.9	4.4	1.9	0.8	0.8
82.5°	34.3	13.5	5.2	3.2	1.6	1.6	0.8	0.0	0.0	0.0	0.0
85°	20.4	5.6	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.2	0.8	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)