

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: P959799

Luminaire Tested: **NAV-SB1B-730-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959799  
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-SB1B-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4528.5 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

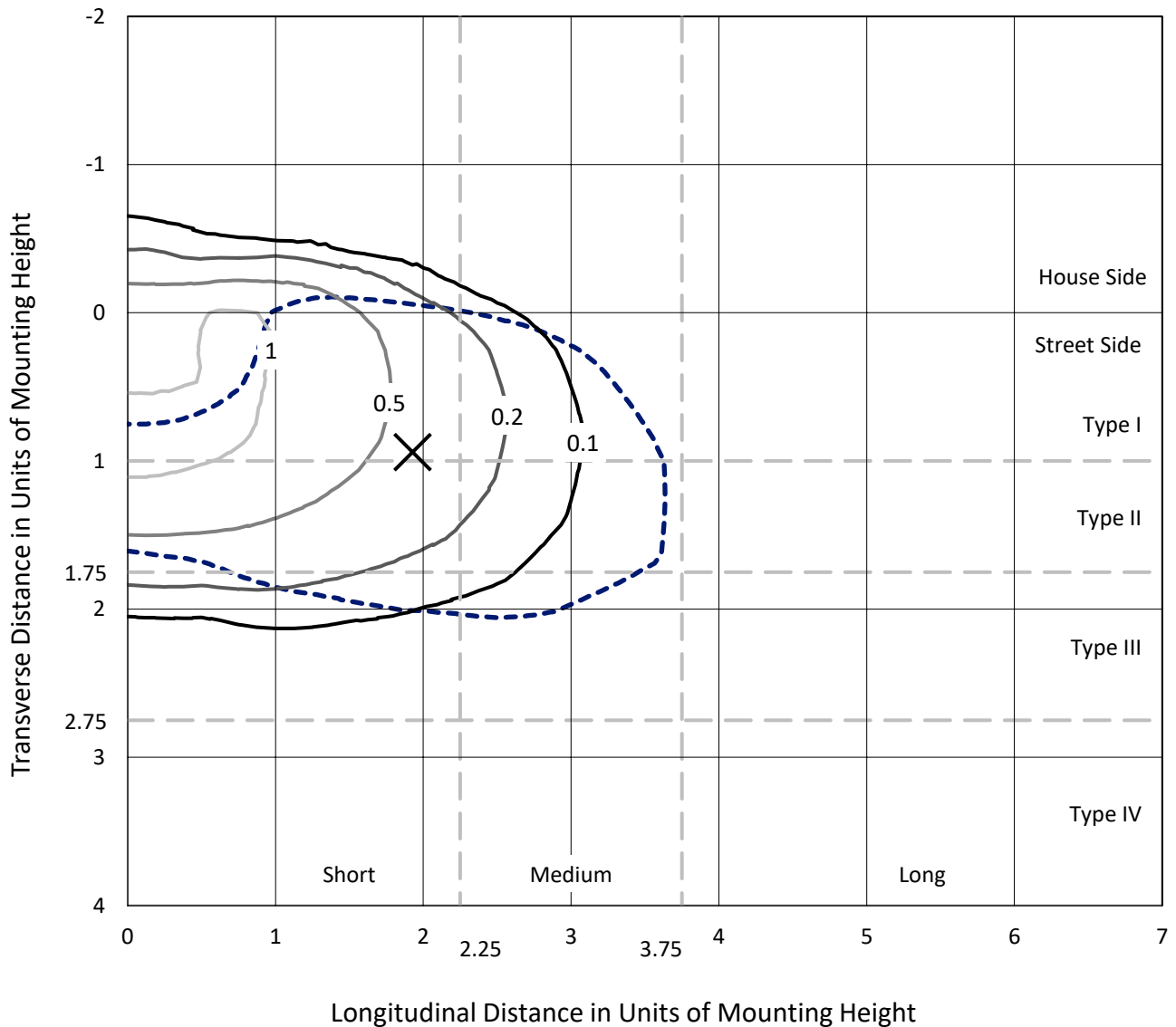
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

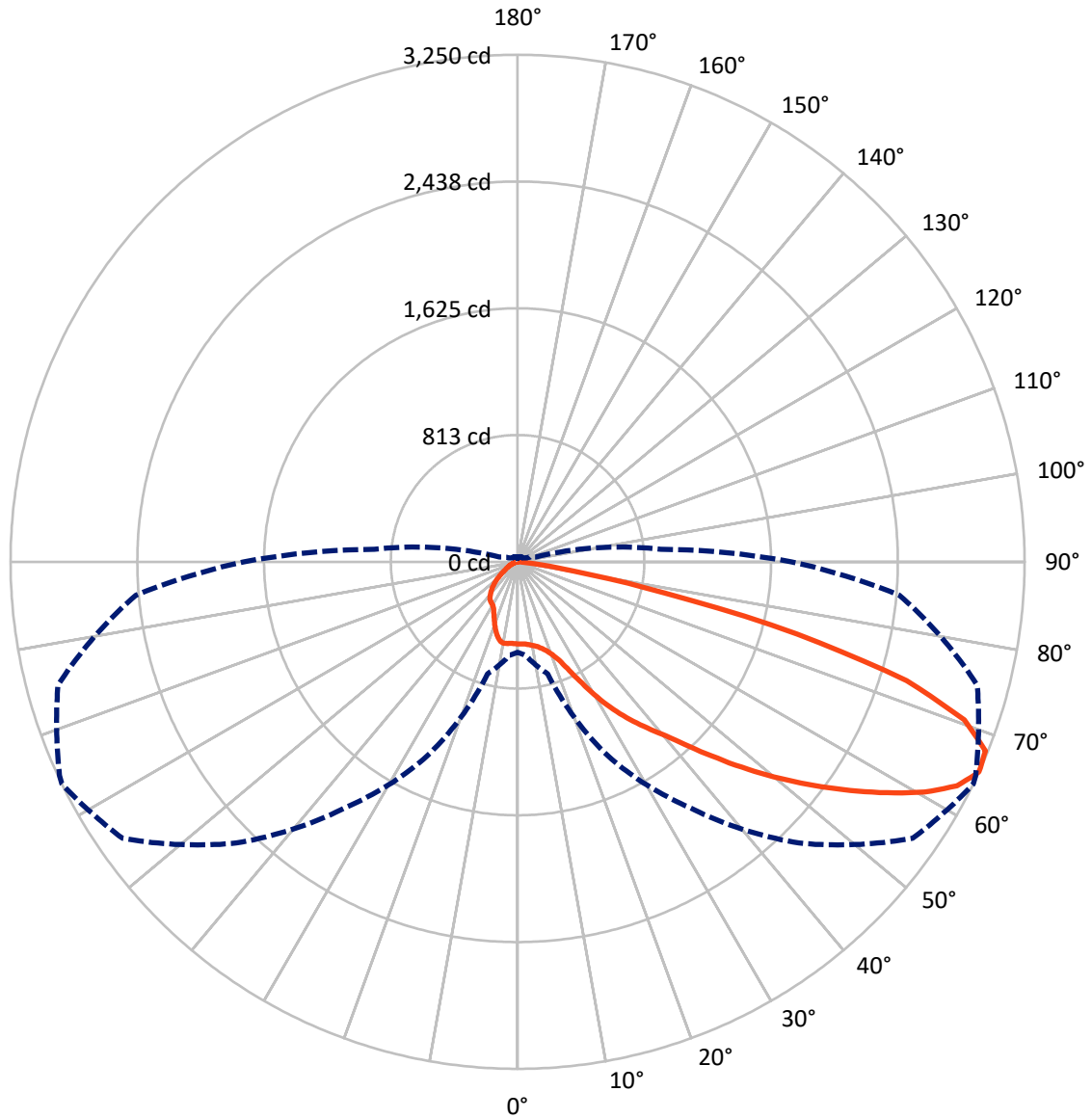
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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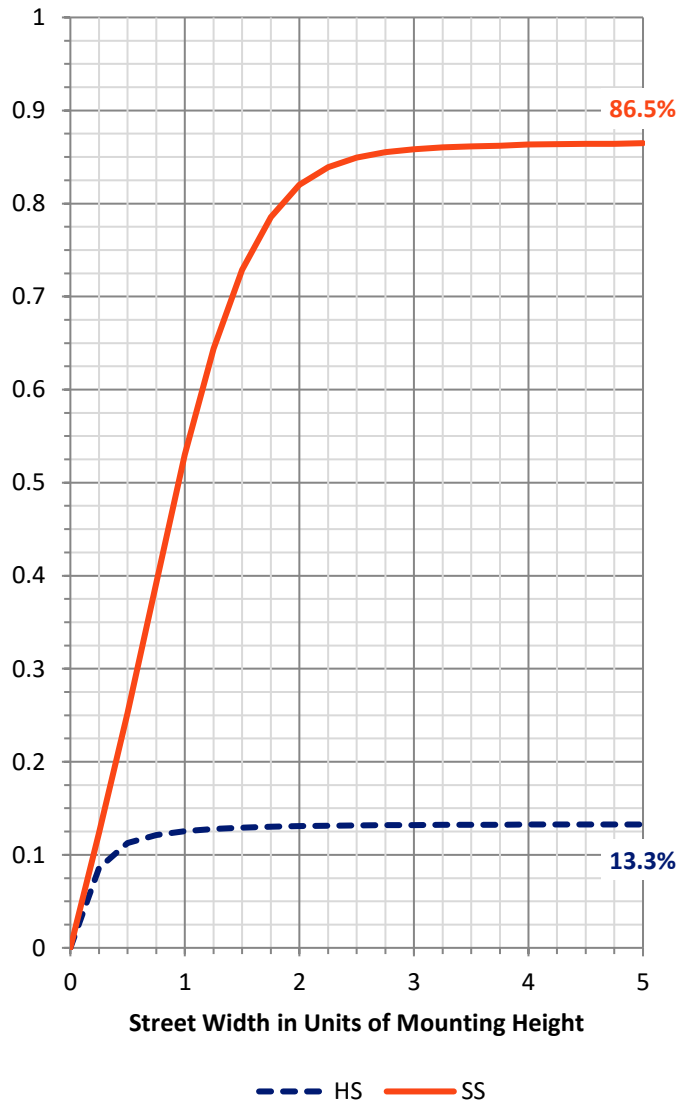
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	605.6	0.0	605.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3922.9	0.0	3922.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	4528.5	0.0	4528.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	1.1
10°-20°	131.8	2.9
20°-30°	249.7	5.5
30°-40°	505.4	11.2
40°-50°	860.9	19.0
50°-60°	1170.8	25.9
60°-70°	1099.4	24.3
70°-80°	440.5	9.7
80°-90°	21.3	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°	4528.5	100.0
0°-180°	4528.5	100.0

**Coefficient of Utilization**



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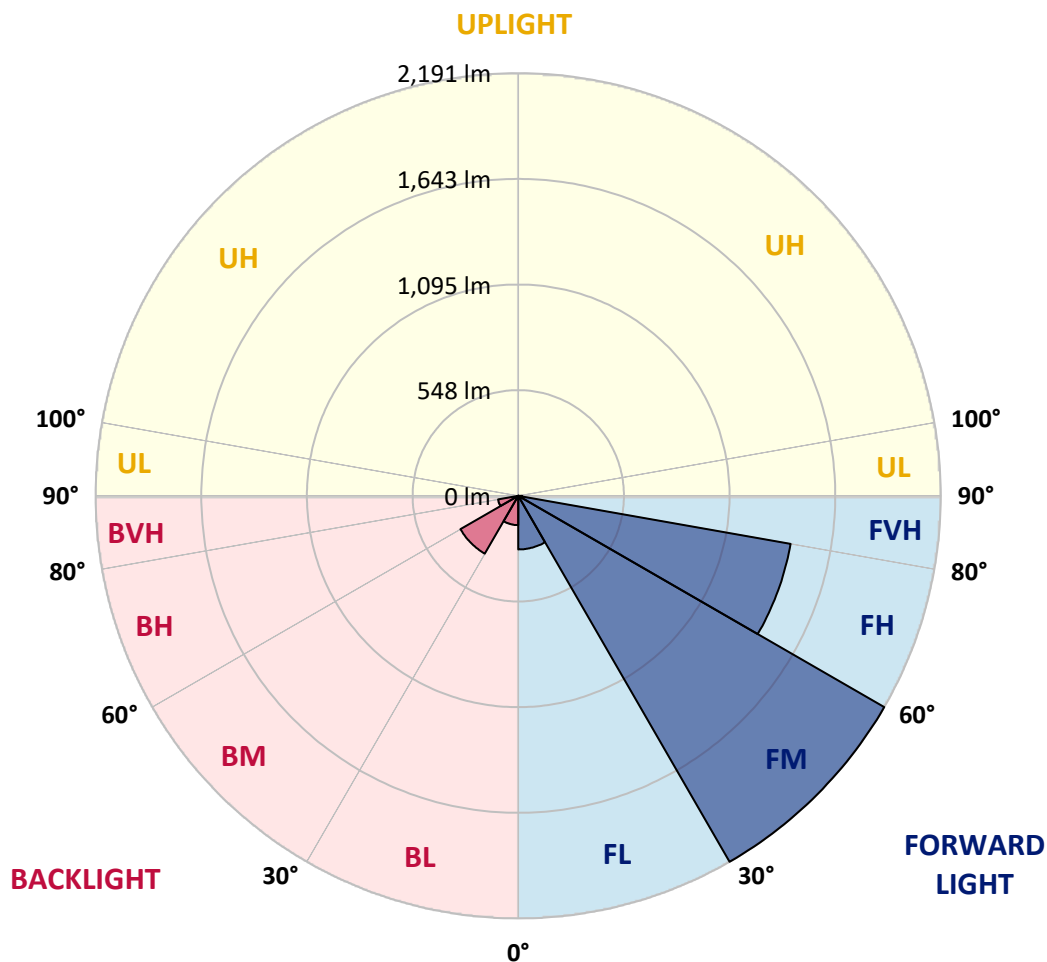
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.1	6.1			
FM (30°-60°)	2190.9	48.4			
FH (60°-80°)	1433.6	31.7			G1/1800
FVH (80°-90°)	20.3	0.4			G1/100
BL (0°-30°)	152.0	3.4	B1/500		
BM (30°-60°)	346.2	7.6	B1/1000		
BH (60°-80°)	106.3	2.3	B0/110		G0/110
BVH (80°-90°)	1.0	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-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	524.9	528.5	527.6	526.7	526.4	527.1	527.4	527.1	527.1	527.1	527.4
5°	514.9	517.9	517.9	520.0	523.1	526.7	529.4	530.6	530.6	531.6	531.3
7.5°	495.7	498.2	500.0	507.0	514.6	524.3	532.5	536.7	537.3	540.7	541.9
10°	482.7	485.7	488.7	496.0	507.0	521.5	535.5	545.8	547.3	555.2	558.9
12.5°	482.1	485.1	489.0	496.9	509.7	525.2	542.2	557.1	559.8	571.3	578.9
15°	488.4	492.1	495.7	505.4	519.2	537.9	556.2	574.7	577.4	593.8	602.0
17.5°	501.5	506.4	509.1	518.9	533.4	554.3	578.3	599.5	602.0	621.2	631.4
20°	527.4	533.1	534.0	541.9	556.2	578.6	607.1	633.6	636.6	658.5	670.0
22.5°	580.8	589.0	581.7	585.6	598.4	620.8	651.8	685.2	689.4	714.3	724.7
25°	674.9	686.3	667.6	660.9	666.4	689.7	728.6	770.8	775.6	795.7	800.8
27.5°	859.8	844.8	816.3	788.4	772.0	785.4	829.0	881.3	887.3	906.8	900.7
30°	1062.8	1049.8	1011.3	949.3	910.4	908.3	948.6	1007.0	1013.9	1032.5	1013.9
32.5°	1266.2	1253.8	1211.9	1135.7	1068.3	1034.9	1062.8	1127.5	1131.1	1143.0	1115.6
35°	1466.3	1453.6	1411.6	1333.6	1250.7	1174.9	1169.4	1242.2	1243.4	1255.9	1215.2
37.5°	1667.6	1656.9	1612.3	1535.8	1454.2	1349.4	1298.7	1350.9	1352.4	1364.6	1322.4
40°	1811.2	1815.7	1785.0	1725.8	1655.7	1541.3	1443.8	1466.6	1457.4	1477.8	1452.6
42.5°	1934.4	1943.5	1916.7	1887.0	1846.3	1745.6	1623.5	1619.6	1605.0	1615.9	1589.9
45°	2041.0	2048.6	2024.6	2017.6	2016.7	1946.0	1820.0	1796.3	1775.9	1773.8	1742.5
47.5°	2080.1	2094.7	2105.0	2128.4	2173.9	2144.2	2023.0	1986.3	1963.5	1946.9	1897.4
50°	2095.0	2110.5	2145.6	2213.7	2321.4	2334.2	2225.2	2184.0	2156.0	2125.6	2052.8
52.5°	2074.9	2102.6	2149.9	2264.4	2420.7	2486.5	2419.2	2383.1	2351.2	2301.7	2193.6
55°	1956.8	1984.5	2081.4	2263.8	2470.2	2593.5	2602.6	2586.5	2550.6	2472.6	2307.5
57.5°	1708.0	1748.9	1902.2	2186.6	2469.3	2685.4	2782.3	2793.8	2753.8	2642.0	2397.1
60°	1363.0	1418.6	1605.7	2015.8	2393.1	2735.2	2939.8	2997.5	2955.0	2809.0	2469.6
62.5°	951.1	1015.5	1192.5	1748.0	2218.8	2699.4	3054.9	3161.4	3129.2	2958.4	2497.5
65°	580.2	600.8	743.4	1375.6	1922.6	2549.5	3090.4	3250.1	3239.5	3049.7	2456.2
67.5°	386.4	403.7	444.7	943.2	1492.4	2249.8	3005.4	3234.6	3237.7	3034.8	2305.0
70°	232.9	247.7	274.4	548.6	967.2	1780.7	2742.2	3037.3	3054.9	2836.0	2018.5
72.5°	95.9	106.0	130.3	248.7	500.9	1130.3	2183.7	2607.7	2648.7	2384.6	1549.2
75°	54.3	59.4	76.5	124.7	217.4	526.7	1322.7	1851.3	1911.6	1643.6	931.9
77.5°	36.1	38.5	49.5	80.8	122.4	179.7	565.3	964.4	1079.8	897.7	403.4
80°	24.3	26.4	34.0	54.0	79.5	77.1	180.0	357.3	439.6	308.4	98.4
82.5°	16.4	16.7	24.3	35.6	50.4	37.3	53.1	111.1	139.6	89.3	37.3
85°	9.4	9.1	17.9	20.6	22.4	15.5	16.1	33.4	43.7	37.6	21.2
87.5°	1.2	1.8	7.0	5.4	3.1	3.4	3.4	5.7	8.5	9.1	4.5
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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	527.4	527.1	526.1	525.2	523.1	521.8	522.4	521.8	521.5	521.8	523.1
5°	531.3	530.3	527.9	524.9	520.6	515.5	512.1	507.3	502.8	500.0	500.6
7.5°	541.9	541.0	537.6	529.1	515.5	493.9	474.2	456.8	443.8	436.2	436.5
10°	558.9	557.4	552.2	533.4	497.5	450.5	411.3	378.8	357.6	347.6	346.7
12.5°	578.9	577.1	568.0	529.4	463.6	390.1	336.1	299.9	280.2	271.4	270.5
15°	602.6	600.1	582.3	510.7	414.1	323.3	273.8	246.8	234.0	226.1	226.4
17.5°	632.0	627.8	592.9	482.4	360.4	272.3	235.5	215.2	204.0	196.4	195.8
20°	670.2	663.3	601.4	448.6	310.9	240.2	209.8	192.8	184.3	177.6	176.4
22.5°	723.8	713.7	611.7	412.3	275.9	218.0	190.6	178.2	171.2	163.6	162.5
25°	789.9	778.1	624.4	378.5	251.9	198.8	176.7	166.4	158.2	149.3	148.4
27.5°	882.5	861.2	639.6	351.0	231.3	182.4	163.9	152.4	143.0	135.7	134.2
30°	985.7	950.8	653.0	334.3	212.5	167.3	147.2	135.7	126.9	121.8	120.8
32.5°	1083.4	1036.1	661.8	327.0	195.5	150.0	129.0	116.5	109.9	108.3	109.3
35°	1175.8	1113.3	660.9	320.0	180.3	132.6	111.1	98.4	93.2	94.1	94.1
37.5°	1282.0	1195.5	654.5	309.0	167.9	116.8	95.6	84.4	79.8	80.2	81.4
40°	1405.6	1290.5	650.6	288.4	154.3	102.3	82.9	73.8	70.4	69.2	68.9
42.5°	1537.3	1382.5	651.2	265.1	137.2	89.3	74.1	66.5	63.4	62.5	62.2
45°	1669.6	1470.3	652.1	240.8	119.3	79.2	67.6	61.3	59.4	58.3	58.3
47.5°	1794.2	1544.9	635.1	214.6	101.7	71.6	62.5	58.3	56.8	55.2	55.2
50°	1910.1	1594.7	594.1	184.3	87.7	65.6	58.6	55.6	54.0	52.5	52.5
52.5°	2000.3	1602.6	526.4	153.0	78.0	61.0	56.2	53.4	51.6	50.1	49.8
55°	2040.4	1553.1	430.2	123.8	70.4	57.1	53.7	51.0	48.9	47.4	47.0
57.5°	2030.0	1448.9	335.5	99.5	63.1	53.1	50.7	48.9	46.4	44.0	43.7
60°	1979.3	1309.6	252.9	82.9	56.5	48.9	47.4	45.8	42.5	38.8	38.2
62.5°	1891.6	1134.5	180.3	68.6	49.2	44.0	43.5	42.2	37.3	30.6	30.0
65°	1757.4	921.7	121.5	57.1	42.2	38.5	38.8	36.7	30.3	22.8	22.1
67.5°	1561.3	673.9	77.7	46.7	35.3	32.2	32.5	31.3	25.8	19.5	18.6
70°	1311.5	446.3	50.7	35.6	28.2	24.9	26.8	27.1	21.8	15.8	15.2
72.5°	961.4	263.5	35.6	26.4	20.6	17.3	21.8	22.4	17.6	11.9	11.3
75°	548.0	125.0	26.8	19.2	12.7	12.1	17.0	17.0	12.1	7.9	7.3
77.5°	230.1	52.2	18.9	12.4	7.3	7.0	11.6	10.7	6.0	3.7	3.7
80°	66.5	23.4	10.0	6.0	3.1	2.8	4.5	3.4	1.5	0.6	0.6
82.5°	26.1	10.4	4.0	2.5	1.2	1.2	0.6	0.0	0.0	0.0	0.0
85°	15.5	4.2	1.8	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.9	0.6	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)