

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: P959724

Luminaire Tested: **NAV-SB1B-722-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-722-U-SL4-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

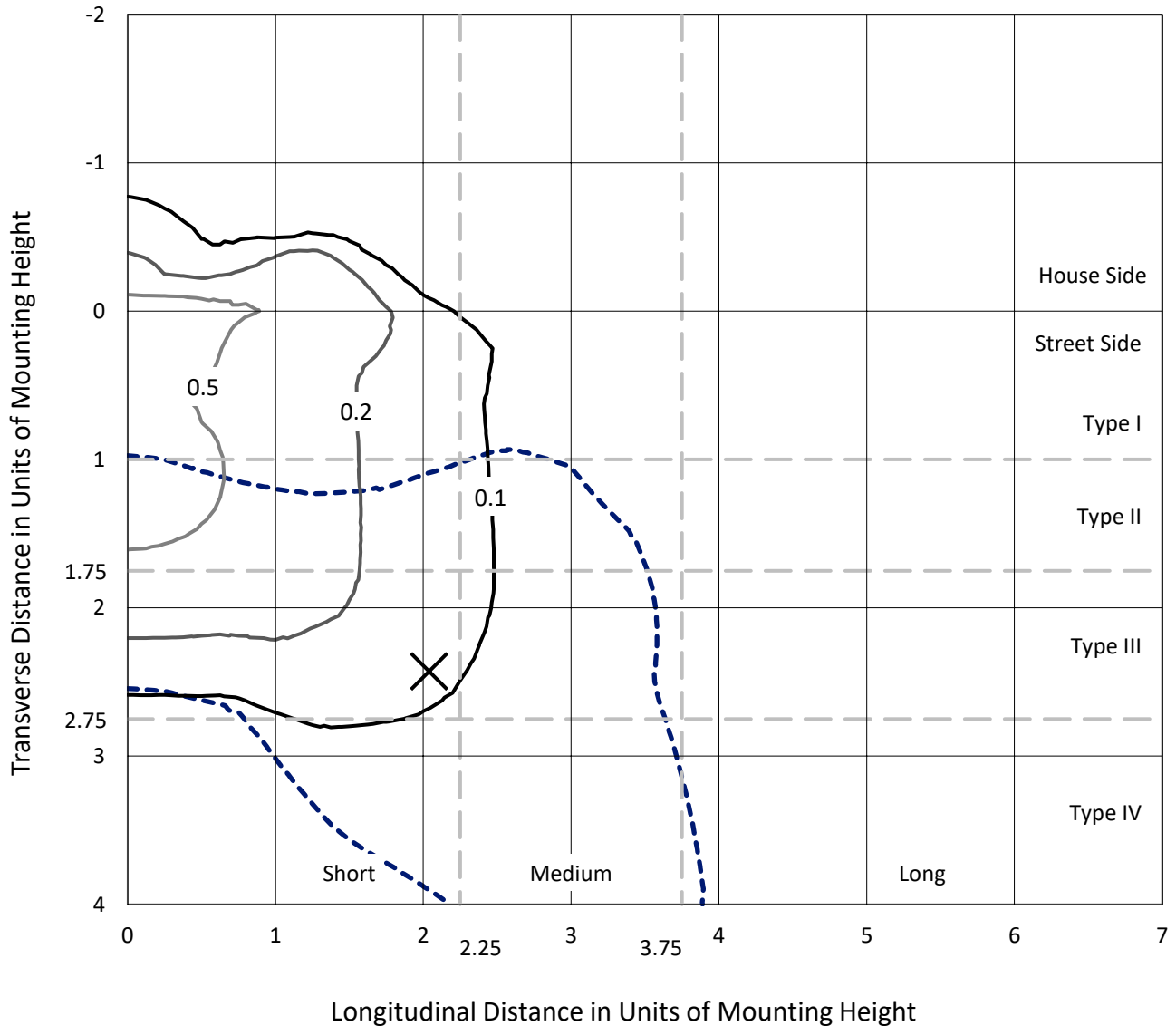
Lumens per Lamp: N/A  
Luminaire Lumens: 3329.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

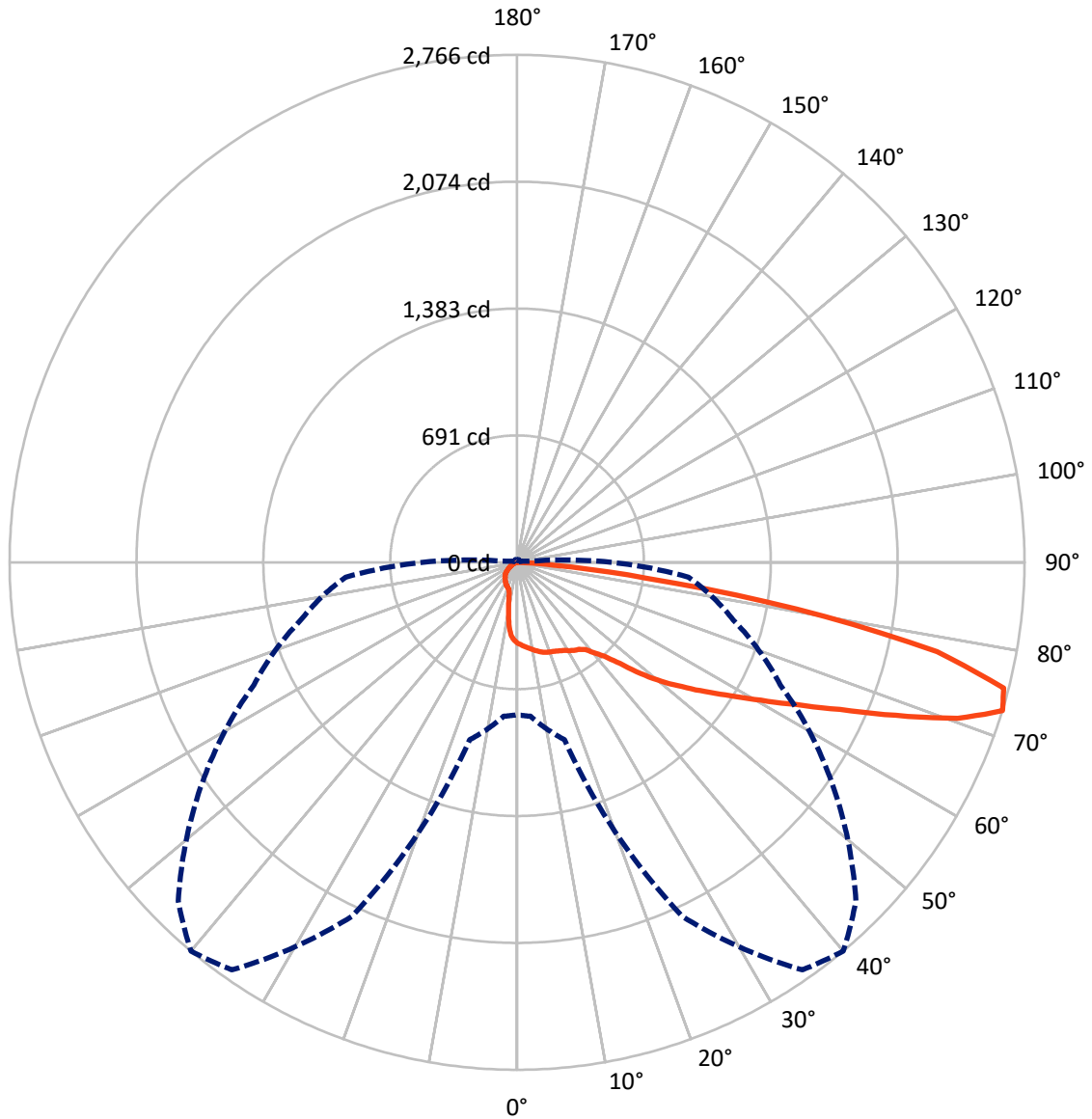
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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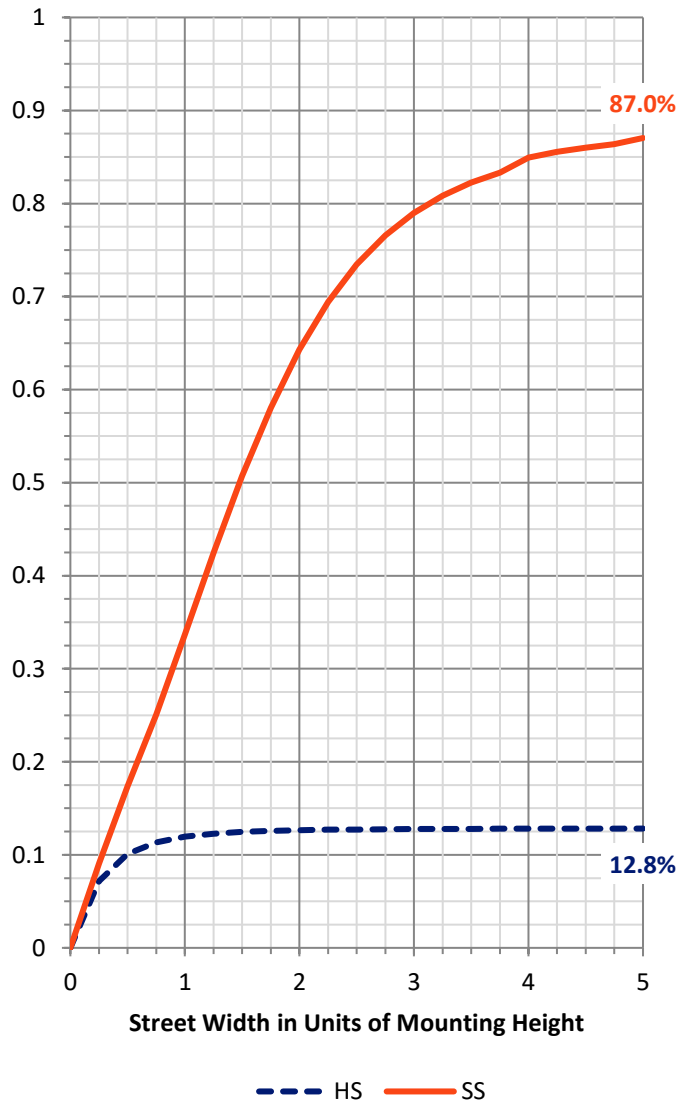
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	429.9	0.0	429.9
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	2899.3	0.0	2899.3
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	3329.2	0.0	3329.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	1.2
10°-20°	109.3	3.3
20°-30°	176.9	5.3
30°-40°	261.2	7.8
40°-50°	439.6	13.2
50°-60°	682.5	20.5
60°-70°	854.0	25.7
70°-80°	699.2	21.0
80°-90°	66.3	2.0
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°	3329.2	100.0
0°-180°	3329.2	100.0

**Coefficient of Utilization**



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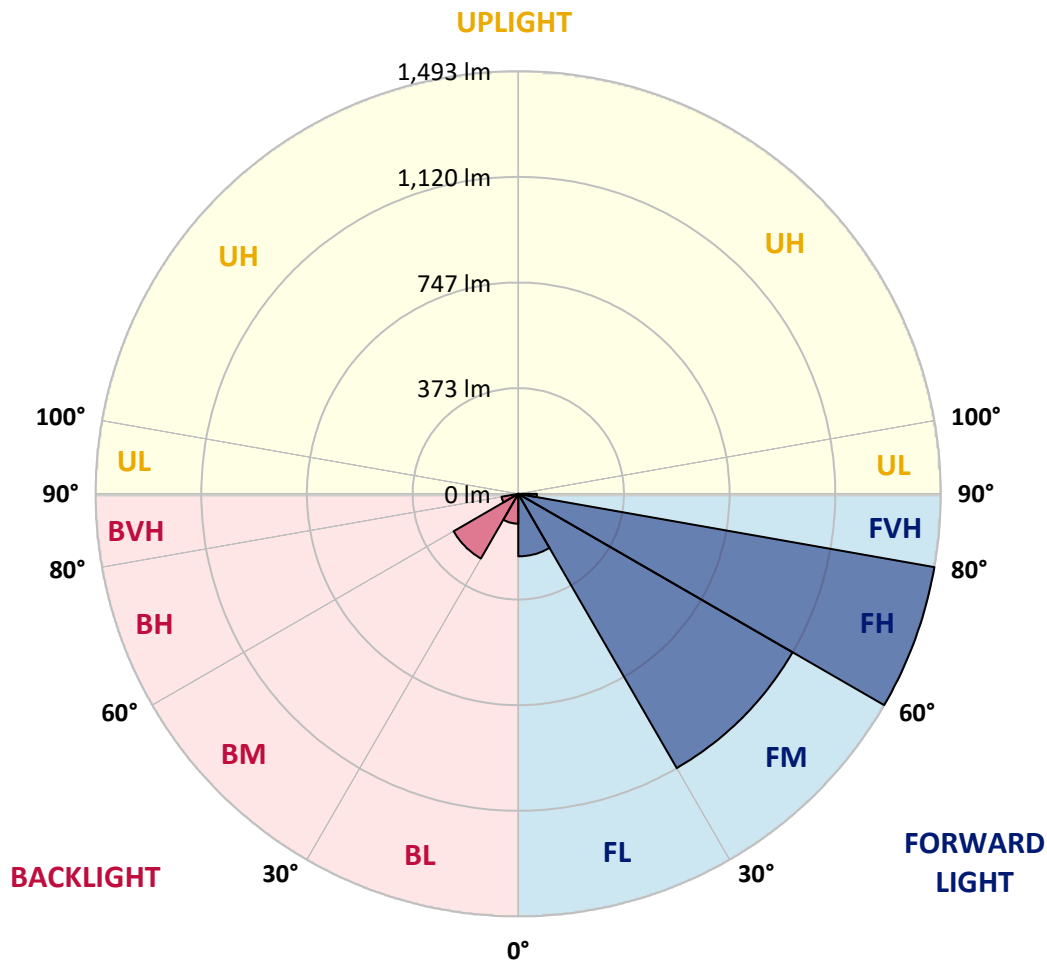
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.0	6.6			
FM (30°-60°)	1119.2	33.6			
FH (60°-80°)	1493.3	44.9			G1/1800
FVH (80°-90°)	65.8	2.0			G1/100
BL (0°-30°)	105.5	3.2	B0/110		
BM (30°-60°)	264.0	7.9	B1/1000		
BH (60°-80°)	59.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	454.1	455.8	454.9	452.8	452.3	451.3	450.1	449.6	447.8	446.3	444.5
5°	466.9	468.6	467.4	464.6	463.4	462.2	460.3	458.9	455.4	452.1	448.1
7.5°	480.9	482.5	480.9	476.9	474.9	473.4	470.9	468.6	464.6	459.9	454.9
10°	496.5	497.7	495.5	490.3	487.0	484.7	482.5	479.9	476.2	470.9	464.8
12.5°	511.1	512.5	509.0	502.8	499.0	496.7	494.3	492.2	488.4	483.4	477.1
15°	524.3	526.5	520.6	513.7	509.5	507.8	505.2	504.0	501.5	497.9	492.2
17.5°	534.3	535.9	529.6	521.5	516.8	515.6	513.7	514.6	514.0	512.3	508.5
20°	542.8	543.9	535.6	525.8	520.6	520.8	520.3	522.9	523.8	523.8	523.6
22.5°	553.4	553.6	543.1	530.8	524.6	526.3	527.1	529.8	531.9	533.8	538.3
25°	567.2	566.7	554.1	537.3	531.9	534.3	536.1	537.1	539.4	542.6	552.9
27.5°	587.7	586.2	570.2	547.9	541.4	543.7	546.8	546.4	545.4	547.9	565.2
30°	613.9	611.8	590.5	562.7	556.7	558.6	559.6	555.1	547.9	550.1	575.9
32.5°	655.2	651.7	622.1	579.2	569.9	572.2	570.9	561.7	550.9	553.2	586.7
35°	727.1	718.6	676.8	613.9	585.0	582.5	579.4	570.4	557.2	554.9	595.7
37.5°	880.2	865.1	793.7	681.3	619.1	602.8	593.5	584.5	564.0	554.9	606.1
40°	1052.7	1037.3	954.9	794.1	675.8	648.2	626.1	601.1	570.9	558.1	622.1
42.5°	1232.7	1215.9	1131.1	934.1	756.8	700.1	659.0	614.3	582.5	568.2	643.4
45°	1433.8	1412.8	1301.9	1079.9	874.3	786.4	711.9	641.6	602.5	586.0	672.5
47.5°	1645.9	1618.6	1472.1	1221.6	1001.0	905.7	808.6	690.5	632.1	612.5	711.9
50°	1833.9	1806.9	1647.9	1369.8	1119.3	1019.3	919.0	758.3	676.5	650.2	764.8
52.5°	1969.1	1948.5	1807.9	1522.7	1242.4	1125.9	1019.1	837.0	732.7	698.3	827.2
55°	2059.6	2040.9	1921.3	1667.7	1385.6	1243.2	1117.6	922.5	800.4	756.0	896.2
57.5°	2114.6	2103.8	2003.3	1797.1	1527.6	1371.6	1230.4	1016.5	880.2	824.0	973.1
60°	2134.2	2125.3	2054.1	1920.4	1699.0	1525.8	1363.0	1122.6	976.9	901.2	1052.2
62.5°	2082.0	2083.7	2090.7	2066.6	1879.8	1706.3	1522.0	1250.0	1084.2	988.7	1126.4
65°	1836.5	1851.0	1984.4	2228.7	2119.3	1932.5	1724.4	1405.5	1207.1	1088.2	1185.3
67.5°	1520.5	1541.6	1707.5	2323.5	2374.6	2226.1	2006.2	1603.5	1353.5	1189.5	1207.6
70°	1164.0	1186.5	1387.6	2303.6	2613.5	2547.1	2354.7	1855.6	1505.2	1259.7	1150.7
72.5°	830.8	842.2	1000.7	2127.4	2711.5	2765.8	2611.5	2094.3	1582.7	1220.9	938.6
75°	583.7	581.7	686.7	1713.1	2558.9	2739.2	2521.5	1965.1	1432.2	969.9	578.7
77.5°	254.3	254.7	343.1	1040.4	2042.3	2339.5	2096.0	1230.9	998.5	514.0	244.3
80°	65.9	68.0	125.9	414.2	1229.7	1544.1	1278.3	541.1	461.4	125.4	46.6
82.5°	23.4	24.8	57.9	130.2	453.6	708.1	569.2	173.0	120.3	35.9	12.5
85°	6.8	8.0	31.1	39.9	93.8	200.1	138.2	33.6	29.6	18.6	3.3
87.5°	0.0	1.0	6.3	5.5	5.5	3.8	7.0	3.8	4.7	2.3	1.0
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°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	443.1	441.4	437.6	433.6	429.8	426.3	425.3	421.5	419.7	420.0	419.7
5°	445.4	442.1	434.8	426.0	417.0	406.7	398.2	386.1	375.9	374.6	373.8
7.5°	451.3	446.1	434.3	417.3	394.6	366.3	340.0	314.0	299.1	291.1	290.6
10°	460.6	453.6	435.5	402.9	355.1	304.4	264.6	231.6	214.8	207.2	205.6
12.5°	471.7	463.9	437.6	378.6	303.9	237.5	194.3	174.2	170.8	170.3	170.0
15°	487.2	478.7	439.8	345.7	248.5	180.8	161.0	161.2	164.0	165.5	165.2
17.5°	504.5	496.0	436.5	305.7	193.8	154.5	154.0	156.2	160.2	161.7	161.4
20°	522.0	514.0	425.0	258.5	156.7	147.2	149.2	151.7	155.7	157.7	157.7
22.5°	540.1	533.1	406.7	208.4	141.4	142.0	144.4	147.0	151.5	153.8	153.8
25°	559.4	553.4	382.4	167.0	134.9	136.4	139.7	142.7	147.4	150.2	150.2
27.5°	579.0	574.4	354.9	139.4	128.8	130.7	134.4	138.4	143.2	146.5	146.7
30°	600.2	597.8	332.7	129.1	123.1	124.6	128.8	133.4	138.7	142.7	143.2
32.5°	622.1	621.6	322.0	136.6	117.9	118.9	122.6	127.1	133.7	138.7	139.2
35°	643.7	644.6	315.7	158.0	116.1	113.4	115.8	119.8	127.6	133.9	134.9
37.5°	671.3	673.7	315.4	181.0	120.3	107.8	109.6	112.3	119.1	126.4	127.6
40°	712.4	725.7	331.5	200.8	127.9	102.8	103.3	103.8	107.3	113.4	115.3
42.5°	767.0	805.9	389.4	214.4	130.9	98.3	96.6	93.8	93.3	96.6	98.3
45°	835.0	902.9	491.2	221.9	127.9	93.3	88.6	81.3	78.5	80.8	80.8
47.5°	915.0	1009.2	611.8	223.7	122.9	87.0	78.5	69.0	66.7	67.4	67.2
50°	992.9	1089.0	717.9	209.1	114.6	79.0	67.4	59.4	57.9	58.2	58.2
52.5°	1061.9	1116.3	747.9	174.8	103.5	69.2	57.9	52.4	51.4	51.4	51.1
55°	1107.5	1086.7	667.0	133.7	89.8	59.1	49.6	46.8	46.4	46.1	45.6
57.5°	1117.0	990.5	503.8	96.6	70.2	49.9	44.2	42.6	41.6	40.6	40.1
60°	1083.0	829.9	320.7	67.4	52.7	42.6	39.2	38.1	36.1	34.1	33.3
62.5°	1009.2	626.9	177.5	46.8	42.3	36.4	34.6	33.3	29.6	26.3	25.3
65°	910.2	416.8	78.5	36.6	34.6	30.5	29.6	27.9	23.4	19.6	18.8
67.5°	810.7	240.0	35.4	29.3	27.9	25.1	24.3	23.1	19.8	16.3	15.8
70°	697.1	121.6	24.3	23.4	21.5	19.1	19.8	19.6	16.3	13.3	12.8
72.5°	519.1	60.5	18.3	17.5	15.6	13.5	16.3	16.1	12.8	10.0	9.5
75°	293.9	29.8	13.3	12.3	9.3	10.0	13.0	12.3	8.8	6.6	6.0
77.5°	116.6	15.3	8.8	7.5	5.5	6.8	9.5	8.3	4.5	2.8	2.5
80°	26.9	7.5	4.5	3.3	2.5	4.0	5.0	3.0	1.2	0.2	0.0
82.5°	7.5	3.3	1.5	1.2	1.2	1.5	1.2	0.5	0.0	0.0	0.0
85°	2.5	1.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.0	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)