

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: P959305

Luminaire Tested: **NAV-SB1A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4722.2 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

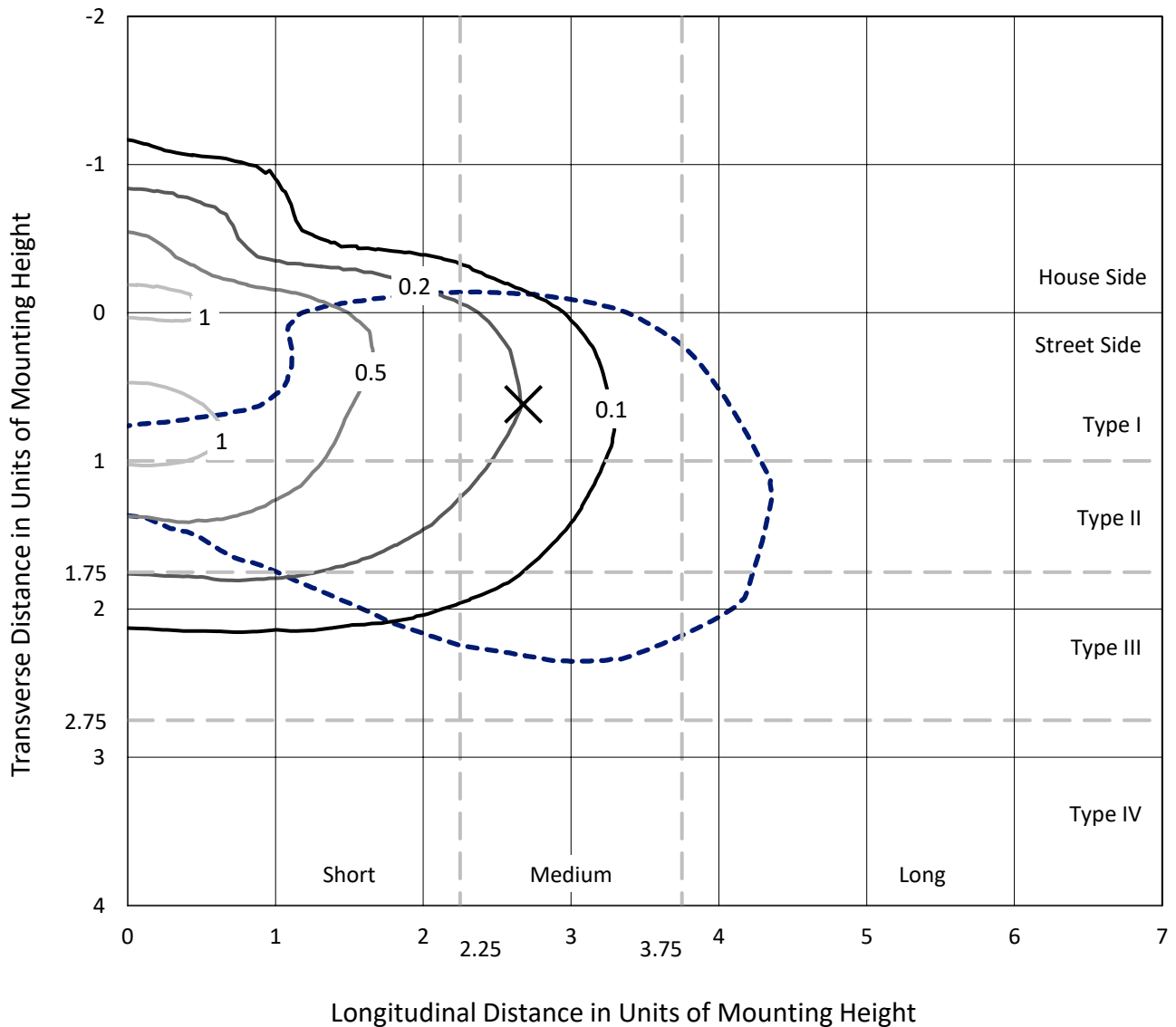
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

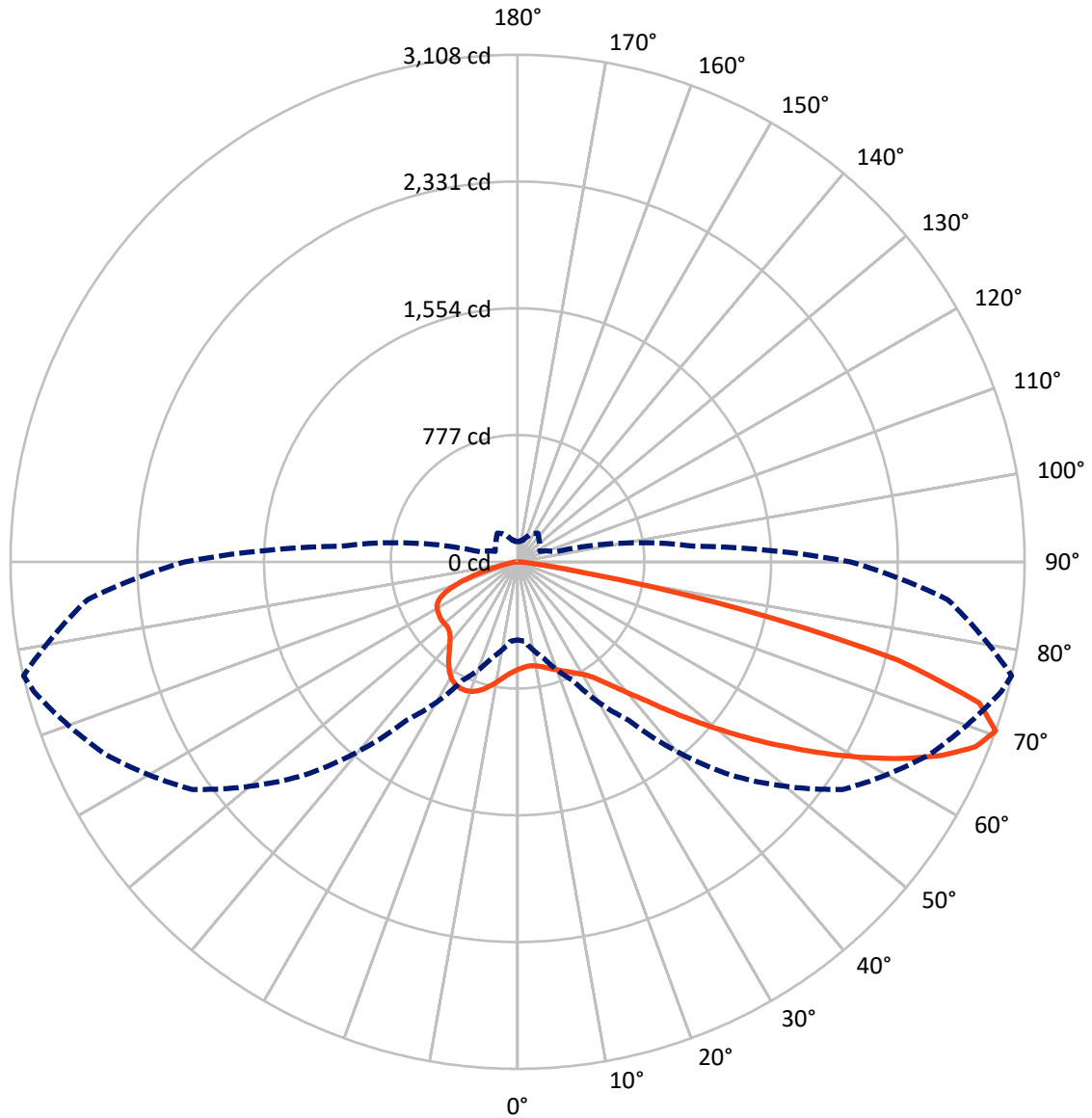
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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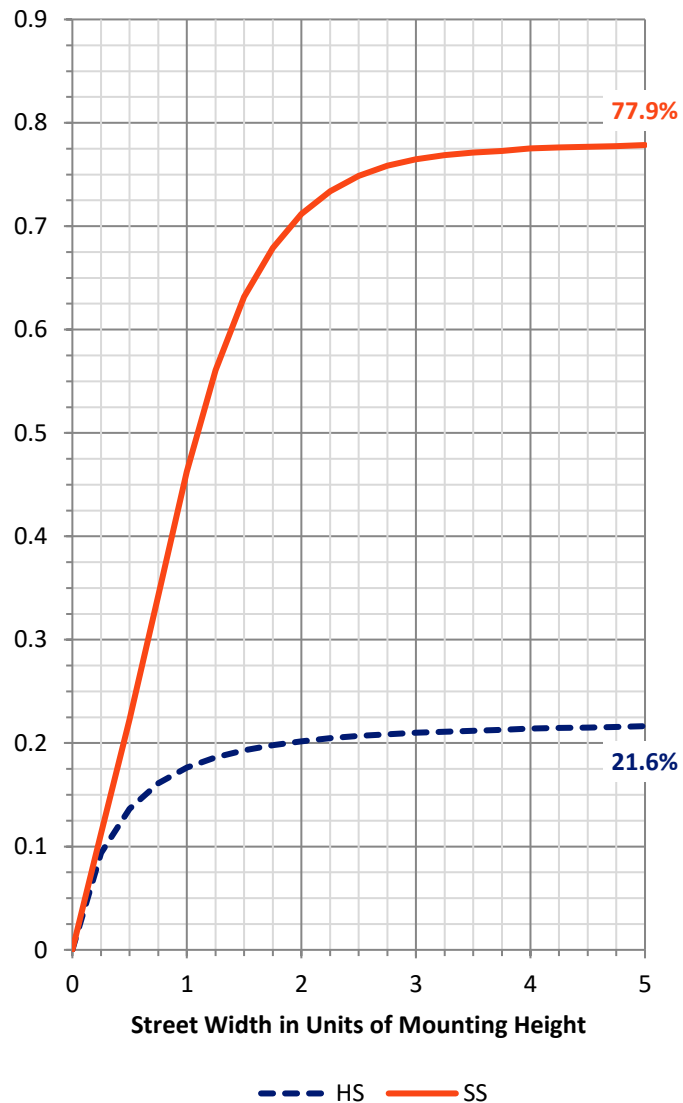
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.1	0.0	1034.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3688.1	0.0	3688.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	4722.2	0.0	4722.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.3
10°-20°	181.3	3.8
20°-30°	310.1	6.6
30°-40°	498.7	10.6
40°-50°	778.6	16.5
50°-60°	1040.0	22.0
60°-70°	1108.5	23.5
70°-80°	682.4	14.5
80°-90°	59.8	1.3
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°	4722.2	100.0
0°-180°	4722.2	100.0

Coefficient of Utilization

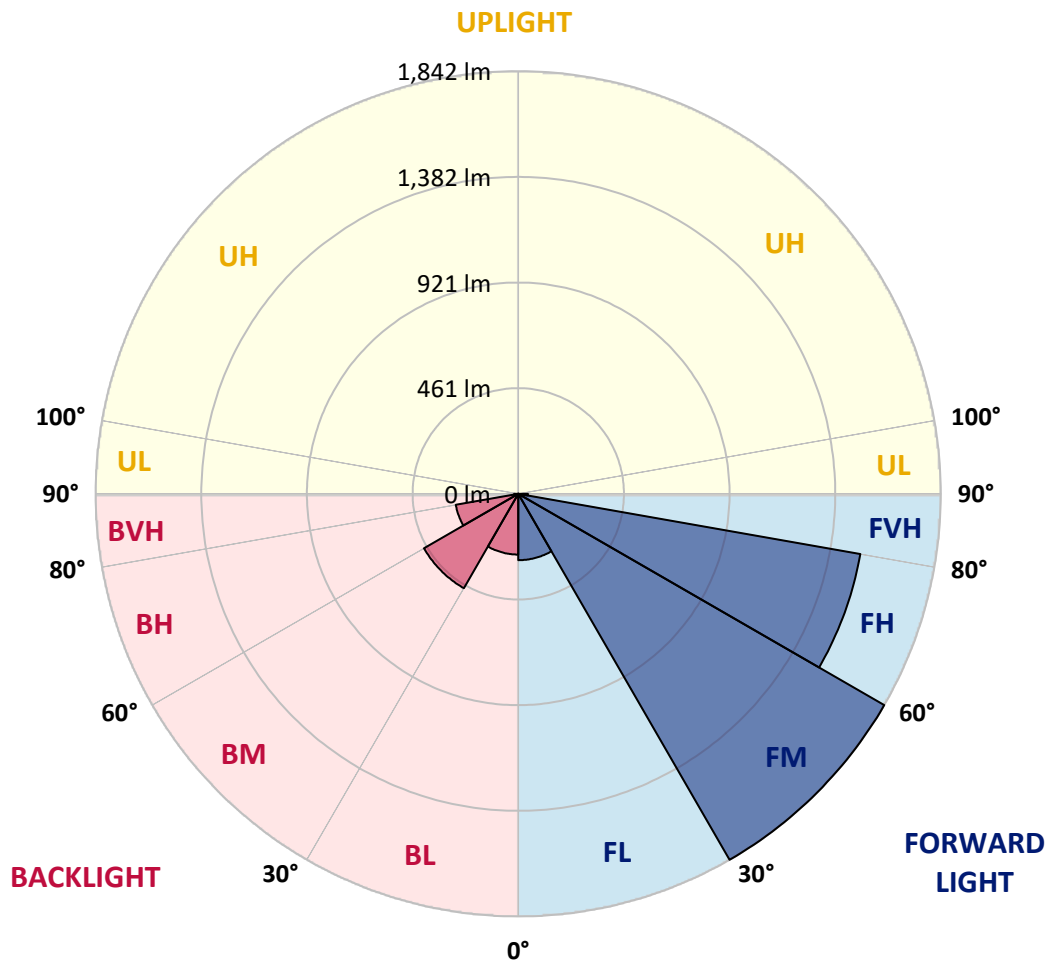


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.3	6.1			
FM (30°-60°)	1842.5	39.0			
FH (60°-80°)	1514.5	32.1			G1/1800
FVH (80°-90°)	41.8	0.9			G1/100
BL (0°-30°)	265.0	5.6	B1/500		
BM (30°-60°)	474.8	10.1	B1/1000		
BH (60°-80°)	276.4	5.9	B1/500		G1/500
BVH (80°-90°)	18.0	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	607.3	607.0	610.2	611.1	616.9	621.0	628.8	637.0	647.7	648.8	655.4
5°	572.2	572.2	575.8	579.7	587.2	595.4	607.3	621.6	639.9	642.8	659.1
7.5°	542.4	544.4	547.6	555.0	563.8	575.6	593.7	614.1	638.3	642.8	668.9
10°	518.5	520.7	524.6	530.6	543.7	560.2	583.8	610.0	642.4	649.6	683.5
12.5°	511.1	513.2	515.4	520.0	532.1	551.4	579.7	611.8	652.2	659.5	703.3
15°	528.4	531.1	529.4	528.2	534.4	552.2	581.7	618.9	664.6	675.0	727.7
17.5°	568.6	569.6	565.7	554.3	553.3	562.7	590.8	628.5	680.1	691.5	752.3
20°	633.3	631.7	623.7	601.3	588.5	586.5	606.6	643.1	696.1	708.2	779.0
22.5°	721.4	719.4	703.6	668.0	639.4	620.5	629.2	661.9	713.9	727.4	804.8
25°	831.2	828.6	805.1	756.8	712.5	665.8	660.2	686.9	735.9	748.6	832.0
27.5°	959.4	957.2	931.8	868.0	804.1	727.7	698.6	716.1	758.9	773.2	862.4
30°	1097.3	1103.5	1058.5	989.8	909.1	808.5	750.4	752.1	788.6	801.4	899.4
32.5°	1259.3	1270.2	1216.0	1128.9	1018.6	896.3	815.7	802.5	832.0	842.6	946.1
35°	1419.8	1432.2	1387.2	1291.0	1164.0	999.8	884.0	860.3	889.5	901.1	1008.0
37.5°	1558.7	1575.1	1552.0	1468.2	1319.5	1124.6	972.9	928.2	960.3	974.9	1091.2
40°	1668.3	1693.4	1691.7	1639.5	1502.9	1276.0	1085.9	1012.1	1048.4	1064.2	1192.1
42.5°	1757.3	1779.0	1797.8	1795.2	1694.1	1447.9	1218.6	1121.1	1148.7	1166.9	1305.4
45°	1818.7	1841.9	1882.5	1926.3	1878.2	1632.0	1370.7	1250.6	1275.7	1303.1	1440.6
47.5°	1873.6	1899.9	1952.6	2022.0	2034.4	1816.7	1537.4	1401.3	1424.2	1452.5	1576.3
50°	1878.4	1901.2	1982.9	2081.4	2145.4	1994.2	1716.4	1570.3	1591.8	1622.1	1721.7
52.5°	1761.6	1797.4	1940.1	2079.6	2196.5	2142.8	1894.1	1746.1	1770.3	1806.6	1872.2
55°	1367.4	1419.8	1814.6	2014.8	2178.3	2238.8	2063.2	1933.0	1964.0	2002.0	2023.6
57.5°	1177.8	1200.8	1440.4	1896.8	2095.6	2263.7	2205.9	2122.0	2171.8	2213.4	2183.7
60°	1058.5	1077.7	1219.3	1713.2	1986.8	2224.2	2316.2	2298.0	2384.1	2433.7	2347.4
62.5°	930.9	949.0	1077.9	1430.5	1847.5	2158.8	2385.8	2460.5	2601.8	2656.0	2501.6
65°	804.1	819.6	943.2	1202.0	1670.4	2093.2	2421.9	2601.0	2803.3	2859.3	2629.8
67.5°	662.9	675.7	792.5	1014.0	1455.2	2003.5	2439.7	2711.5	2978.5	3026.7	2693.2
70°	478.4	488.3	609.0	802.0	1185.0	1849.1	2432.5	2789.9	3069.5	3107.9	2645.3
72.5°	226.1	235.0	376.8	520.7	837.0	1548.8	2285.6	2727.7	2977.1	2958.0	2352.2
75°	120.6	128.4	216.5	285.7	442.1	1061.7	1870.4	2349.8	2500.0	2407.1	1738.4
77.5°	81.7	87.7	134.0	171.5	201.9	504.0	1202.2	1626.9	1565.2	1411.9	870.6
80°	64.8	71.1	109.8	116.1	97.7	182.1	496.7	753.1	541.0	432.7	247.6
82.5°	49.8	56.8	92.4	84.2	53.2	74.7	144.6	238.2	138.6	105.5	60.0
85°	30.4	37.9	72.6	53.7	30.0	34.1	49.1	66.2	42.3	35.3	21.5
87.5°	15.5	21.7	36.8	19.6	13.5	8.0	13.0	13.0	11.2	9.6	5.5
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°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	661.2	666.0	674.2	682.0	688.1	693.8	699.7	702.8	703.8	707.7	709.8
5°	668.9	677.9	693.8	708.9	718.3	724.1	728.2	730.6	731.1	732.3	734.2
7.5°	683.2	697.5	719.8	734.7	741.7	741.3	739.5	733.5	731.1	728.9	729.4
10°	703.3	722.1	749.5	759.8	755.5	743.9	728.9	711.2	703.0	695.1	692.7
12.5°	728.2	752.1	779.0	778.5	757.0	727.2	692.4	665.3	648.1	635.8	632.9
15°	758.4	786.0	806.6	790.1	742.9	689.5	638.5	603.2	587.7	574.1	572.7
17.5°	789.7	819.2	828.6	786.5	707.7	633.7	575.8	548.1	532.8	525.5	527.7
20°	820.1	849.3	841.6	765.7	653.9	570.3	518.8	503.5	500.4	502.0	501.3
22.5°	852.3	878.4	844.3	725.5	585.5	505.4	477.1	477.6	484.6	489.7	491.0
25°	885.2	902.8	837.2	667.5	512.0	457.8	450.8	458.6	472.3	482.3	484.9
27.5°	916.9	924.6	822.0	595.6	448.8	423.7	425.0	440.9	461.7	475.5	478.9
30°	952.6	943.9	792.7	514.9	405.1	394.4	404.6	423.2	444.0	456.3	459.3
32.5°	993.0	960.6	746.3	440.1	374.1	370.9	387.7	399.7	409.0	412.6	414.5
35°	1043.3	984.1	686.9	387.7	346.3	353.8	369.8	363.8	360.1	358.1	360.1
37.5°	1108.6	1015.8	617.2	353.6	323.8	341.5	348.0	329.1	314.9	307.9	309.5
40°	1187.3	1062.2	550.2	327.2	309.5	330.9	319.5	296.7	278.6	268.7	269.4
42.5°	1274.5	1110.8	493.8	307.4	301.6	322.2	298.5	271.3	242.1	238.9	242.1
45°	1366.2	1160.8	455.4	292.1	297.8	314.7	286.4	242.6	221.8	234.6	241.4
47.5°	1457.9	1206.8	432.1	280.7	295.8	306.2	275.7	226.6	211.9	230.5	239.2
50°	1559.9	1247.9	421.8	272.5	293.6	302.8	259.7	222.5	201.4	213.8	222.9
52.5°	1661.2	1279.8	414.0	264.3	290.5	300.1	252.0	217.7	188.9	189.6	194.6
55°	1762.3	1300.6	405.6	253.5	283.4	294.3	251.2	212.4	179.5	176.1	178.5
57.5°	1870.2	1312.5	395.1	241.4	271.3	279.6	250.5	208.3	176.5	171.0	171.7
60°	1980.0	1329.9	381.6	226.6	255.1	261.9	248.9	206.7	174.9	165.4	166.2
62.5°	2078.4	1336.0	365.4	212.6	234.3	244.5	245.2	205.6	170.3	154.1	154.1
65°	2143.0	1309.8	337.1	196.6	211.9	226.6	238.2	201.4	162.1	145.9	145.9
67.5°	2140.3	1235.3	292.8	176.1	190.1	206.7	228.1	194.4	152.1	135.7	136.4
70°	2040.7	1088.3	236.8	152.1	166.2	185.5	215.0	184.1	140.2	124.5	126.0
72.5°	1750.2	851.8	172.0	124.0	138.4	163.5	198.0	171.5	128.2	114.6	113.9
75°	1250.3	539.0	116.5	95.3	107.6	138.6	177.0	156.7	117.1	115.1	108.5
77.5°	638.7	257.6	77.2	69.7	74.9	109.3	148.7	140.0	118.7	95.0	84.7
80°	207.8	95.0	48.6	47.4	49.8	72.8	115.1	114.9	90.0	64.6	57.1
82.5°	66.2	40.9	31.7	30.4	29.2	45.7	80.3	90.9	60.7	40.9	40.6
85°	26.3	24.4	18.7	17.2	12.3	21.5	42.1	60.5	45.2	29.5	30.2
87.5°	9.6	9.6	5.1	3.6	2.7	7.3	11.4	18.1	25.8	15.3	15.0
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)