

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: P959739

Luminaire Tested: **NAV-SB1B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959739
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-SB1B-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896.4 lumens
Efficiency: N/A
Efficacy: 123.0 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

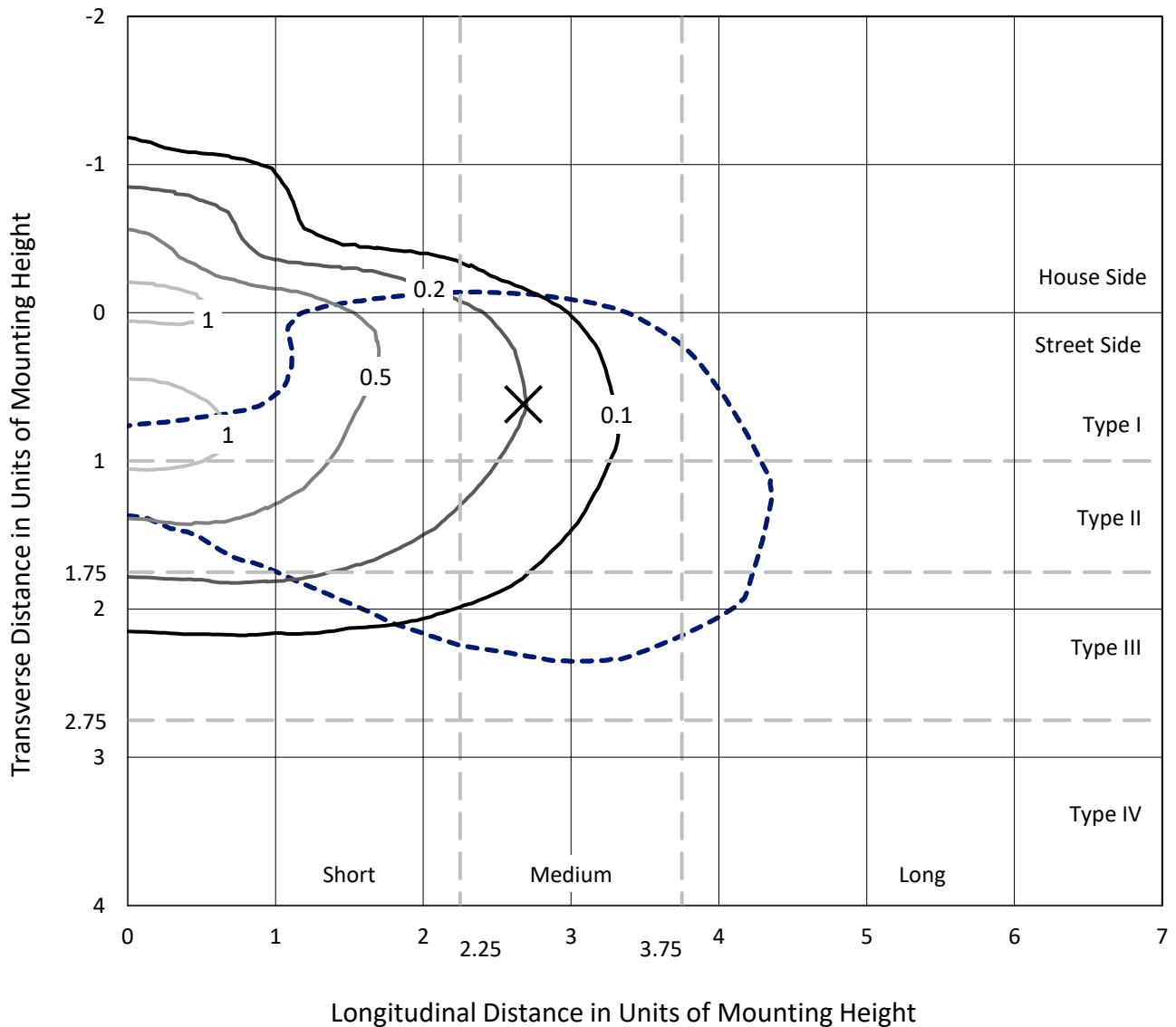
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

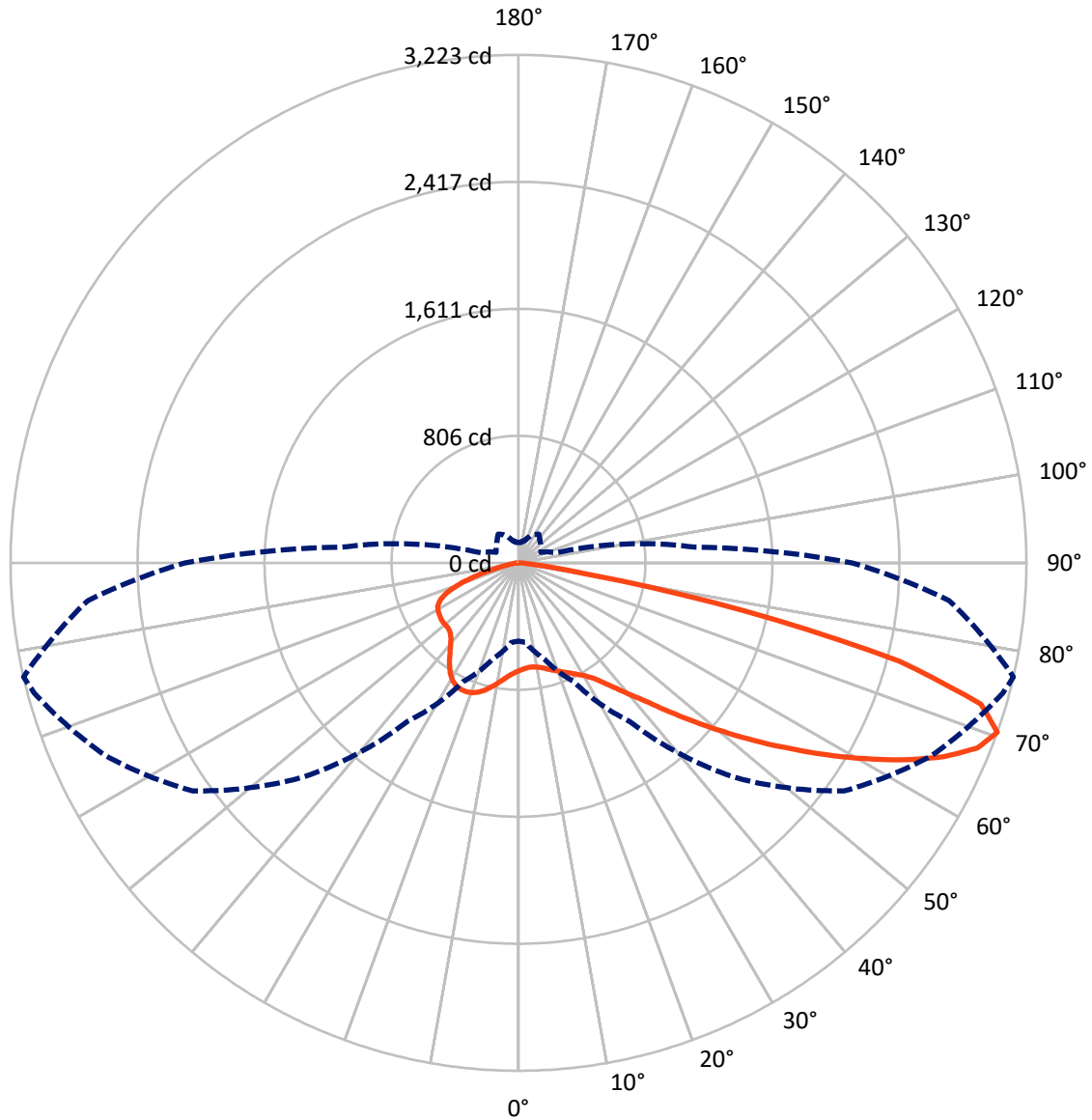
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - 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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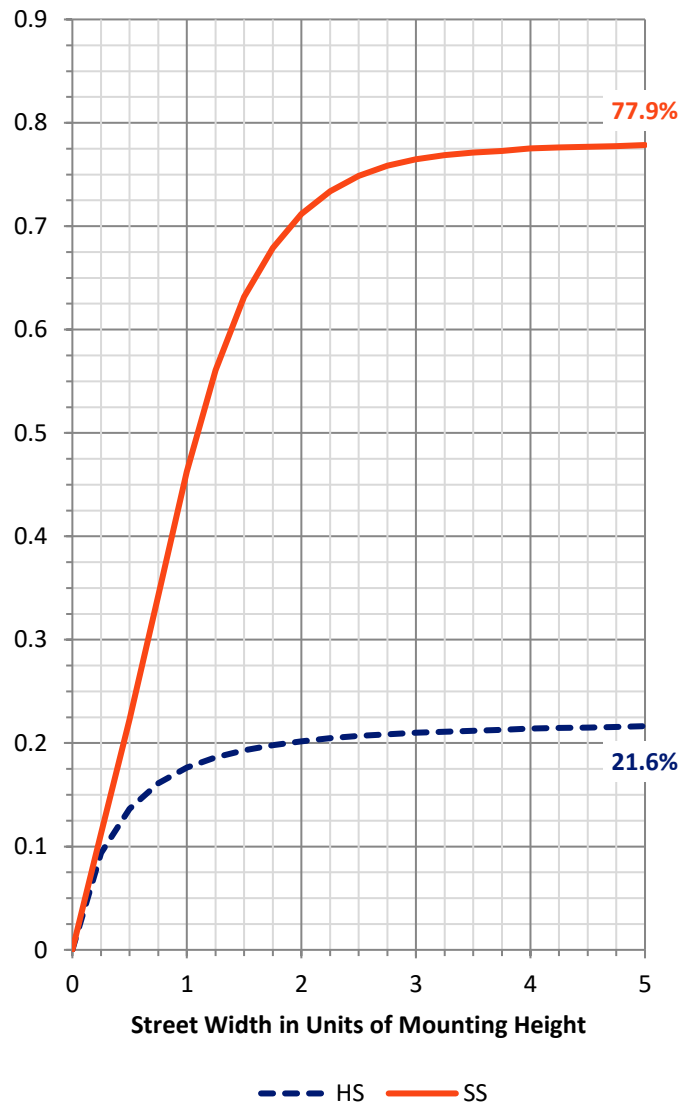
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.2	0.0	1072.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3824.2	0.0	3824.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	4896.4	0.0	4896.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.3
10°-20°	188.0	3.8
20°-30°	321.6	6.6
30°-40°	517.1	10.6
40°-50°	807.3	16.5
50°-60°	1078.4	22.0
60°-70°	1149.4	23.5
70°-80°	707.5	14.5
80°-90°	62.0	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°	4896.4	100.0
0°-180°	4896.4	100.0

Coefficient of Utilization

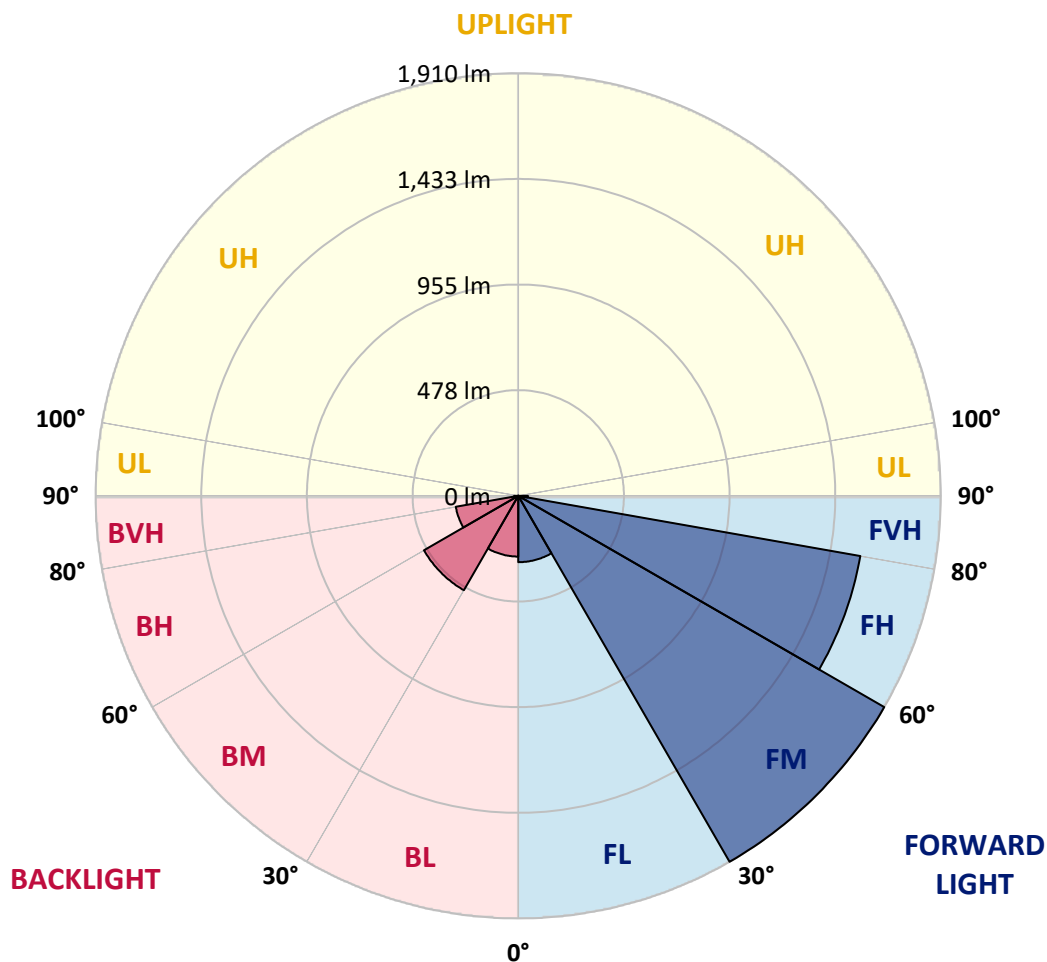


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.0	6.1			
FM (30°-60°)	1910.5	39.0			
FH (60°-80°)	1570.4	32.1			G1/1800
FVH (80°-90°)	43.4	0.9			G1/100
BL (0°-30°)	274.7	5.6	B1/500		
BM (30°-60°)	492.3	10.1	B1/1000		
BH (60°-80°)	286.6	5.9	B1/500		G1/500
BVH (80°-90°)	18.6	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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	629.7	629.5	632.7	633.7	639.7	644.0	652.0	660.5	671.6	672.8	679.6
5°	593.3	593.3	597.1	601.1	608.8	617.4	629.7	644.5	663.6	666.6	683.4
7.5°	562.5	564.5	567.7	575.5	584.6	596.9	615.6	636.7	661.7	666.6	693.6
10°	537.6	539.9	544.0	550.2	563.8	580.8	605.4	632.4	666.0	673.5	708.7
12.5°	529.9	532.2	534.4	539.2	551.7	571.7	601.1	634.5	676.3	683.9	729.3
15°	548.0	550.7	548.9	547.7	554.2	572.5	603.1	641.8	689.1	699.9	754.6
17.5°	589.6	590.6	586.5	574.7	573.8	583.5	612.6	651.8	705.2	717.0	780.1
20°	656.7	655.0	646.8	623.4	610.1	608.1	628.9	666.8	721.7	734.2	807.7
22.5°	748.0	746.0	729.5	692.6	663.1	643.5	652.5	686.3	740.3	754.3	834.6
25°	861.9	859.2	834.9	784.6	738.7	690.3	684.6	712.2	763.1	776.1	862.6
27.5°	994.8	992.5	966.2	900.1	833.8	754.6	724.5	742.5	786.9	801.8	894.2
30°	1137.8	1144.3	1097.6	1026.4	942.7	838.3	778.2	779.9	817.7	831.1	932.6
32.5°	1305.7	1317.0	1260.9	1170.6	1056.3	929.4	845.8	832.1	862.6	873.7	981.0
35°	1472.3	1485.0	1438.4	1338.6	1206.9	1036.7	916.6	892.0	922.3	934.4	1045.2
37.5°	1616.2	1633.2	1609.1	1522.4	1368.2	1166.0	1008.8	962.5	995.8	1010.9	1131.5
40°	1729.8	1755.9	1754.1	1700.0	1558.3	1323.1	1126.0	1049.5	1087.1	1103.4	1236.0
42.5°	1822.0	1844.7	1864.3	1861.5	1756.6	1501.3	1263.6	1162.6	1191.2	1210.0	1353.6
45°	1885.8	1909.9	1952.0	1997.4	1947.5	1692.2	1421.4	1296.7	1322.8	1351.2	1493.8
47.5°	1942.7	1970.0	2024.7	2096.6	2109.4	1883.7	1594.2	1452.9	1476.8	1506.1	1634.5
50°	1947.7	1971.3	2056.0	2158.1	2224.6	2067.8	1779.7	1628.2	1650.6	1681.9	1785.2
52.5°	1826.7	1863.8	2011.7	2156.4	2277.4	2221.8	1964.0	1810.6	1835.7	1873.3	1941.2
55°	1417.9	1472.3	1881.5	2089.2	2258.7	2321.4	2139.3	2004.4	2036.5	2075.8	2098.2
57.5°	1221.3	1245.1	1493.6	1966.8	2172.9	2347.2	2287.3	2200.3	2251.9	2295.1	2264.2
60°	1097.6	1117.5	1264.3	1776.4	2060.0	2306.4	2401.6	2382.8	2472.1	2523.4	2434.0
62.5°	965.2	984.0	1117.7	1483.3	1915.6	2238.4	2473.8	2551.3	2697.8	2754.0	2594.0
65°	833.8	849.8	978.0	1246.3	1732.0	2170.4	2511.2	2697.0	2906.7	2964.8	2726.9
67.5°	687.4	700.7	821.7	1051.4	1508.9	2077.4	2529.8	2811.7	3088.4	3138.3	2792.6
70°	496.0	506.4	631.4	831.6	1228.8	1917.4	2522.2	2892.9	3182.7	3222.6	2742.9
72.5°	234.5	243.7	390.7	539.9	867.9	1606.0	2370.0	2828.4	3087.0	3067.2	2439.0
75°	125.2	133.1	224.5	296.1	458.4	1100.8	1939.4	2436.4	2592.2	2495.9	1802.6
77.5°	84.8	91.0	138.9	177.8	209.4	522.6	1246.6	1686.9	1623.0	1464.0	902.8
80°	67.2	73.7	113.9	120.3	101.3	188.8	515.1	780.8	561.0	448.6	256.8
82.5°	51.7	58.9	95.8	87.2	55.1	77.5	150.0	247.0	143.7	109.4	62.2
85°	31.6	39.4	75.2	55.7	31.1	35.4	50.9	68.7	43.9	36.6	22.3
87.5°	16.1	22.5	38.1	20.3	14.0	8.3	13.5	13.5	11.6	10.0	5.7
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	685.6	690.6	699.2	707.1	713.4	719.4	725.5	728.8	729.7	733.8	736.1
5°	693.6	702.9	719.4	735.0	744.8	750.8	755.1	757.6	758.1	759.3	761.4
7.5°	708.4	723.2	746.3	761.9	769.2	768.6	766.8	760.6	758.1	755.8	756.3
10°	729.3	748.8	777.2	787.9	783.4	771.4	755.8	737.5	729.0	720.7	718.2
12.5°	755.1	779.9	807.7	807.2	784.9	754.1	717.9	689.8	672.1	659.3	656.3
15°	786.4	815.0	836.3	819.3	770.4	714.9	662.0	625.5	609.4	595.3	593.8
17.5°	818.8	849.3	859.2	815.5	733.8	657.0	597.1	568.3	552.5	544.9	547.1
20°	850.3	880.7	872.7	794.0	678.0	591.3	537.9	522.1	518.9	520.6	519.9
22.5°	883.8	910.8	875.5	752.3	607.1	524.1	494.8	495.3	502.6	507.8	509.0
25°	917.8	936.1	868.2	692.1	530.8	474.7	467.4	475.5	489.7	500.0	502.8
27.5°	950.7	958.7	852.4	617.7	465.5	439.3	440.6	457.2	478.7	493.0	496.5
30°	987.8	978.8	822.0	533.9	420.0	409.0	419.5	438.8	460.4	473.2	476.2
32.5°	1029.6	996.1	773.9	456.4	388.0	384.7	402.0	414.5	424.0	427.8	429.8
35°	1081.8	1020.4	712.2	402.0	359.1	366.8	383.5	377.2	373.4	371.4	373.4
37.5°	1149.5	1053.2	640.0	366.6	335.8	354.1	360.9	341.3	326.5	319.2	321.0
40°	1231.0	1101.4	570.5	339.3	321.0	343.1	331.3	307.7	288.8	278.6	279.3
42.5°	1321.5	1151.8	512.1	318.8	312.7	334.0	309.4	281.4	251.0	247.7	251.0
45°	1416.6	1203.7	472.2	302.9	308.7	326.3	296.9	251.5	229.9	243.2	250.3
47.5°	1511.7	1251.3	448.1	291.1	306.7	317.4	285.9	234.9	219.7	239.0	248.0
50°	1617.4	1294.0	437.4	282.6	304.4	314.0	269.4	230.7	208.9	221.7	231.2
52.5°	1722.5	1327.1	429.3	274.1	301.1	311.2	261.3	225.7	195.9	196.6	201.8
55°	1827.4	1348.6	420.6	262.8	293.9	305.1	260.6	220.2	186.0	182.6	185.1
57.5°	1939.2	1360.9	409.8	250.3	281.4	289.9	259.8	215.9	183.1	177.3	178.0
60°	2053.1	1378.9	395.8	234.9	264.6	271.6	258.0	214.4	181.3	171.5	172.3
62.5°	2155.1	1385.3	378.9	220.5	243.0	253.5	254.3	213.2	176.5	159.7	159.7
65°	2222.1	1358.1	349.5	203.9	219.7	234.9	247.0	208.9	168.0	151.2	151.2
67.5°	2219.3	1280.9	303.7	182.6	197.1	214.4	236.5	201.6	157.7	140.7	141.4
70°	2116.0	1128.4	245.5	157.7	172.3	192.3	222.9	190.9	145.4	129.1	130.7
72.5°	1814.9	883.2	178.2	128.6	143.4	169.5	205.4	177.8	132.9	118.9	118.1
75°	1296.5	558.9	120.8	98.8	111.6	143.7	183.6	162.5	121.4	119.4	112.5
77.5°	662.3	267.1	79.9	72.3	77.7	113.4	154.3	145.2	123.1	98.5	87.7
80°	215.5	98.5	50.4	49.2	51.7	75.4	119.4	119.1	93.3	66.9	59.1
82.5°	68.7	42.3	32.8	31.6	30.3	47.4	83.2	94.3	62.9	42.3	42.1
85°	27.4	25.3	19.3	17.8	12.8	22.3	43.7	62.7	46.9	30.5	31.4
87.5°	10.0	10.0	5.2	3.8	2.8	7.5	11.8	18.8	26.9	15.8	15.6
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)