

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: P960267

Luminaire Tested: **NAV-SB1C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347.8 lumens
Efficiency: N/A
Efficacy: 116.7 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

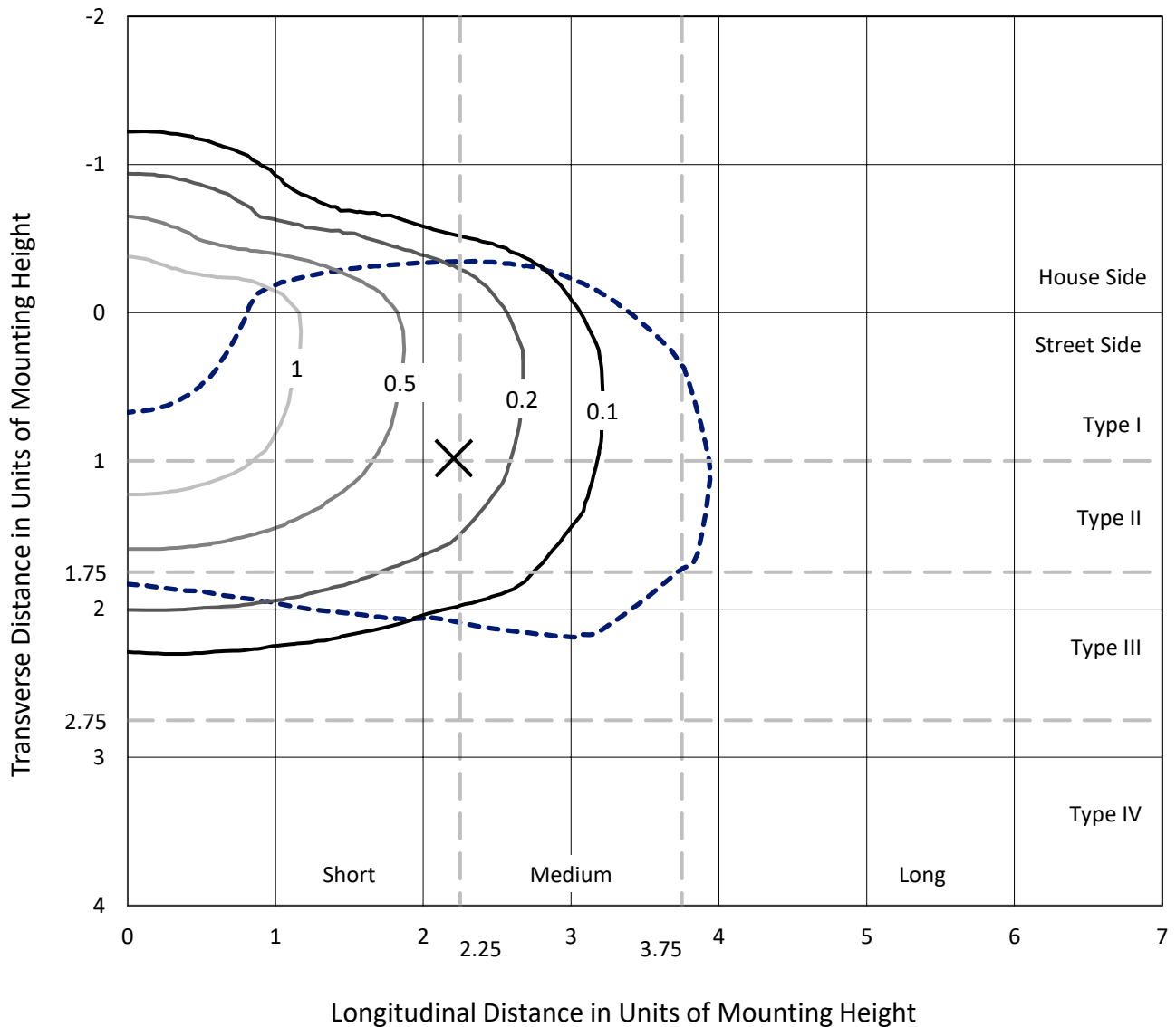
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

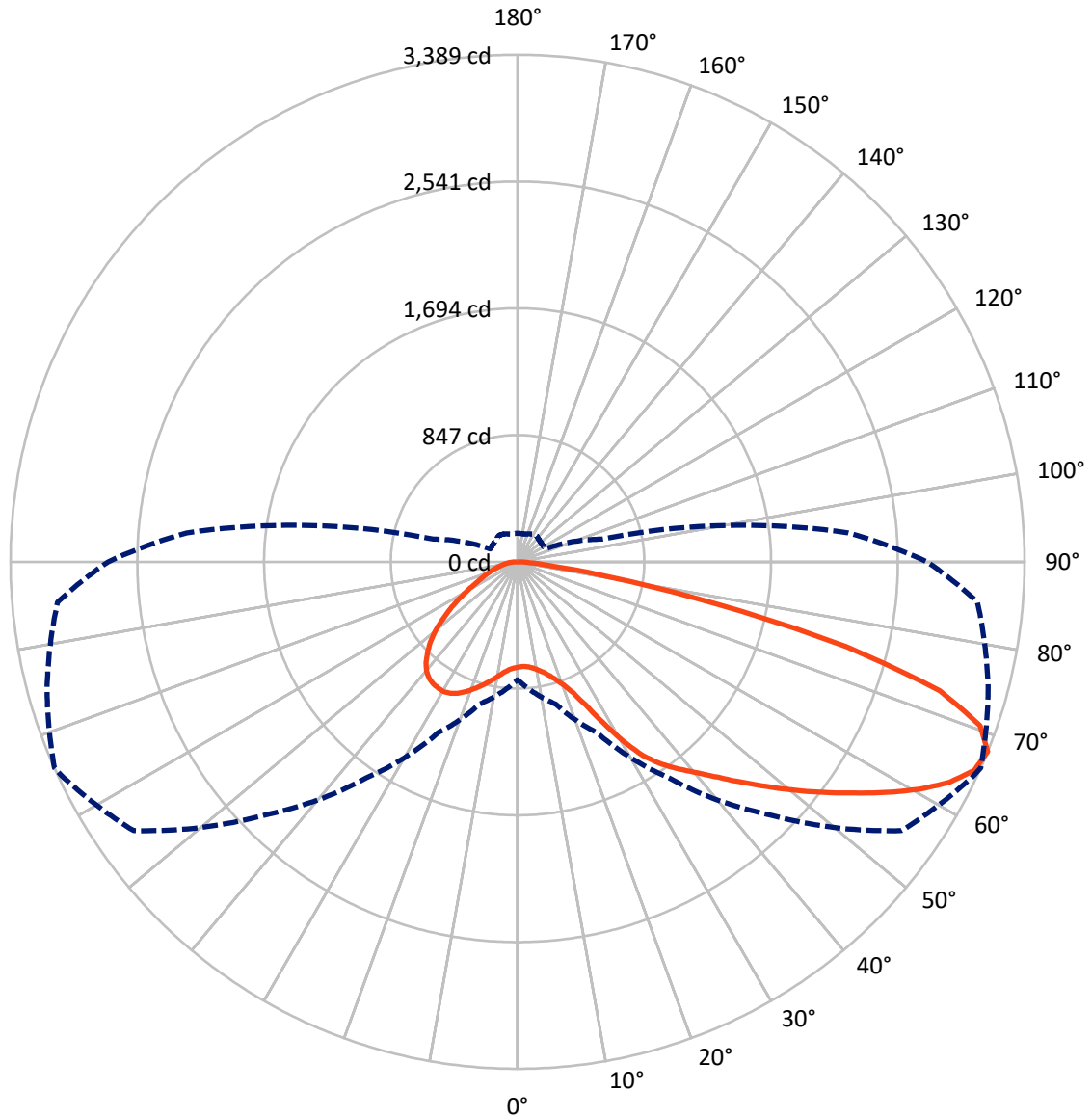
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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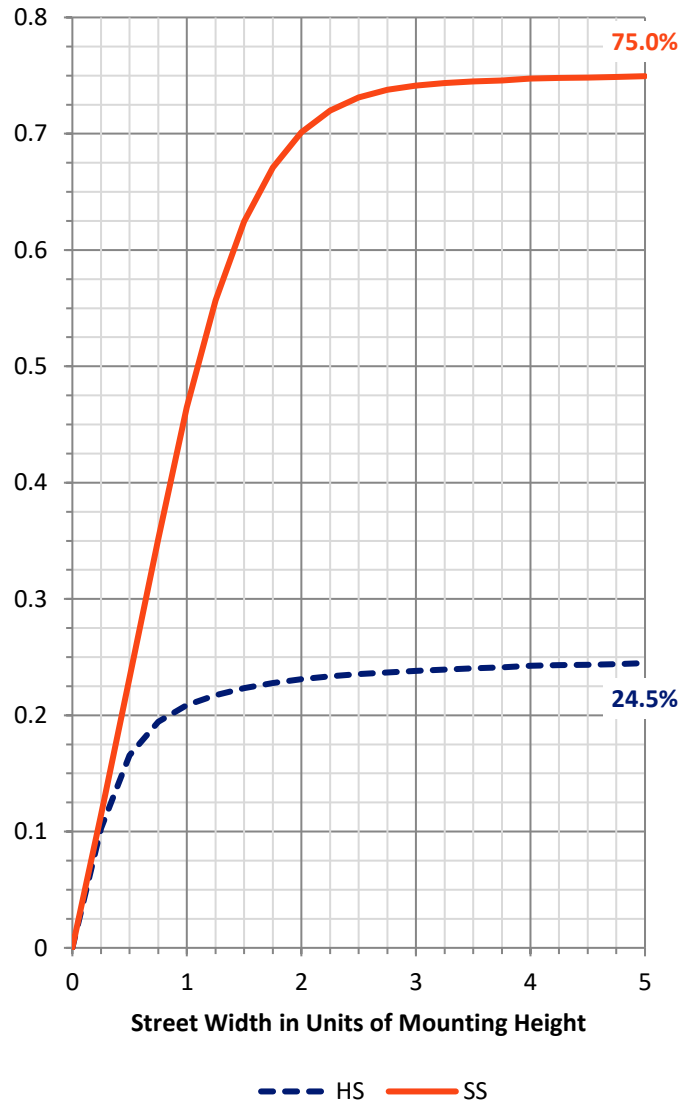
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1578.4	0.0	1578.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4769.4	0.0	4769.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	6347.8	0.0	6347.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	1.1
10°-20°	230.6	3.6
20°-30°	444.5	7.0
30°-40°	779.4	12.3
40°-50°	1158.7	18.3
50°-60°	1468.8	23.1
60°-70°	1437.2	22.6
70°-80°	685.5	10.8
80°-90°	73.3	1.2
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°	6347.8	100.0
0°-180°	6347.8	100.0

Coefficient of Utilization



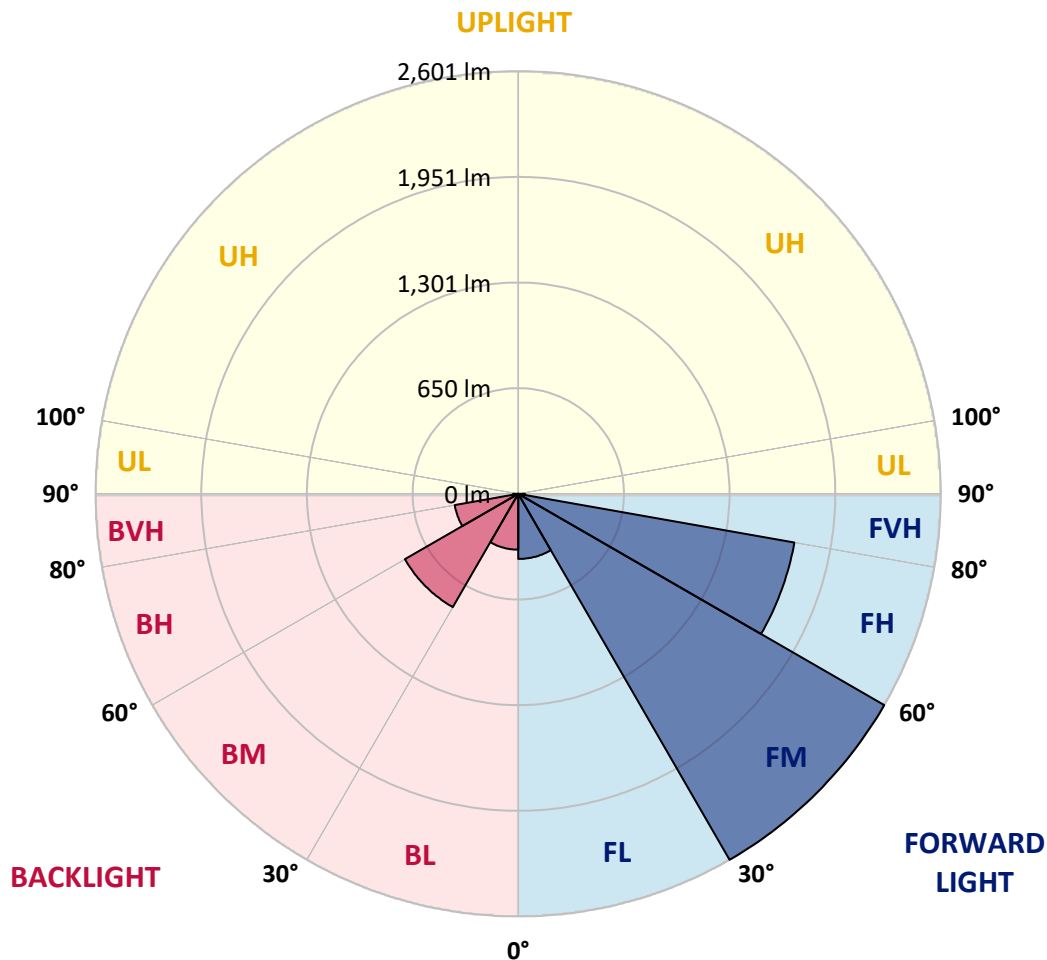
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.1	6.3			
FM (30°-60°)	2601.3	41.0			
FH (60°-80°)	1725.5	27.2			G1/1800
FVH (80°-90°)	41.5	0.7			G1/100
BL (0°-30°)	343.8	5.4	B1/500		
BM (30°-60°)	805.6	12.7	B1/1000		
BH (60°-80°)	397.2	6.3	B1/500		G1/500
BVH (80°-90°)	31.7	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1
2.5°	696.7	700.7	699.8	698.0	697.7	698.4	699.4	700.4	700.1	701.7	704.4
5°	694.7	698.7	698.4	698.4	699.8	702.4	704.1	705.7	704.1	706.0	709.7
7.5°	696.1	699.0	700.4	701.7	705.1	710.0	714.0	717.7	715.8	718.1	722.7
10°	713.1	715.3	716.8	716.8	719.0	724.8	728.8	735.4	733.7	737.4	743.4
12.5°	744.0	746.4	746.4	745.1	746.7	750.4	751.7	759.1	756.0	762.1	768.1
15°	782.1	786.8	783.1	780.7	781.5	785.2	784.7	790.5	787.4	792.4	797.8
17.5°	824.1	830.1	824.1	823.8	822.5	826.5	826.8	831.8	826.5	830.1	833.8
20°	873.8	882.1	877.2	878.8	875.9	877.5	879.1	886.5	878.1	880.8	879.9
22.5°	943.8	953.9	948.5	954.9	952.8	951.5	951.2	964.2	951.2	952.2	942.5
25°	1045.9	1057.9	1048.6	1057.3	1057.3	1061.6	1066.6	1083.2	1061.6	1055.2	1030.2
27.5°	1196.7	1208.7	1190.3	1195.7	1194.0	1204.7	1199.4	1240.7	1217.4	1207.0	1156.6
30°	1378.1	1399.4	1364.8	1363.5	1361.7	1378.7	1386.4	1413.8	1390.1	1379.8	1319.1
32.5°	1574.2	1596.5	1555.2	1543.2	1536.9	1547.2	1540.9	1562.8	1546.5	1530.5	1455.5
35°	1781.7	1803.7	1764.3	1741.0	1715.6	1693.9	1671.3	1676.9	1661.6	1637.2	1559.5
37.5°	1977.7	2018.1	1976.4	1951.4	1904.8	1862.3	1799.0	1772.6	1758.3	1735.9	1657.6
40°	2177.5	2200.6	2168.9	2147.5	2096.8	2030.4	1929.0	1873.4	1854.0	1832.4	1766.0
42.5°	2324.6	2346.6	2329.6	2315.0	2275.3	2198.2	2067.1	1997.4	1969.4	1945.0	1888.7
45°	2441.3	2457.7	2447.0	2452.3	2435.4	2360.7	2210.2	2130.6	2101.5	2071.8	2027.4
47.5°	2488.4	2505.7	2522.7	2554.4	2583.4	2528.4	2364.0	2274.6	2243.9	2213.6	2169.8
50°	2483.1	2500.7	2550.1	2617.4	2707.5	2689.2	2526.1	2428.0	2399.6	2365.0	2324.6
52.5°	2440.3	2460.4	2523.8	2635.8	2779.2	2809.5	2691.1	2586.5	2559.7	2518.4	2478.0
55°	2328.3	2340.3	2435.4	2594.1	2796.2	2893.6	2852.9	2755.2	2728.5	2670.8	2626.8
57.5°	2120.5	2137.8	2276.2	2481.7	2753.6	2950.7	2994.9	2932.6	2906.9	2823.9	2777.9
60°	1849.4	1877.1	2035.4	2292.9	2644.8	2950.3	3124.1	3107.1	3085.8	2974.7	2926.6
62.5°	1542.5	1574.5	1726.9	2026.1	2454.7	2866.6	3204.8	3253.1	3242.2	3113.7	3052.3
65°	1184.7	1206.6	1358.4	1680.9	2158.9	2686.8	3214.1	3352.9	3354.8	3219.4	3118.0
67.5°	788.7	852.2	983.9	1261.4	1762.7	2393.0	3132.1	3369.2	3388.5	3255.8	3085.0
70°	384.9	468.2	597.4	819.8	1261.4	1942.4	2917.7	3235.1	3278.2	3149.7	2888.2
72.5°	159.8	186.8	257.2	404.6	724.1	1310.8	2486.8	2871.6	2951.3	2790.9	2428.3
75°	107.7	116.7	147.1	207.5	329.8	646.4	1793.3	2141.2	2269.6	2107.8	1722.9
77.5°	83.0	88.8	107.0	145.0	196.1	244.5	959.9	1290.4	1356.8	1256.0	896.5
80°	65.4	69.7	80.1	105.7	139.1	130.8	327.2	584.7	623.0	522.6	288.1
82.5°	56.7	58.3	57.4	71.8	92.4	76.4	107.4	215.8	238.1	172.7	94.1
85°	41.0	45.7	47.7	44.4	49.0	38.6	44.1	76.4	84.0	75.0	53.0
87.5°	16.7	24.7	30.3	28.7	18.0	11.0	13.6	22.3	25.7	28.0	17.3
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°	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1
2.5°	704.7	707.0	708.7	710.7	712.1	714.0	718.1	720.4	720.8	722.4	722.1
5°	711.0	714.4	718.1	723.4	729.4	734.4	742.1	747.4	749.4	751.1	750.7
7.5°	724.8	729.4	736.1	745.4	754.1	760.8	770.1	776.4	782.8	785.2	785.5
10°	745.1	751.7	761.5	774.1	783.4	792.1	801.8	807.1	813.4	816.1	817.4
12.5°	770.4	777.5	790.1	807.8	816.4	822.5	825.8	824.4	825.8	828.1	828.8
15°	799.4	807.1	821.4	840.5	846.4	841.1	833.8	827.2	826.2	826.8	829.1
17.5°	833.8	839.5	856.2	872.2	867.8	845.8	829.8	819.1	813.7	812.1	814.5
20°	881.8	881.8	895.5	905.5	876.5	839.2	814.2	796.7	785.8	781.0	780.1
22.5°	940.2	934.9	943.5	936.5	874.8	820.4	785.8	755.7	739.1	732.4	731.4
25°	1014.2	1007.9	1005.5	962.2	862.8	790.8	734.4	698.0	683.4	679.7	680.4
27.5°	1126.0	1110.0	1079.6	976.2	840.8	744.0	674.3	640.7	632.3	632.7	633.7
30°	1274.7	1242.7	1168.3	978.6	804.8	678.0	613.1	589.0	585.0	586.7	592.3
32.5°	1412.4	1382.1	1259.0	967.9	749.4	613.4	558.0	541.9	536.0	537.9	540.6
35°	1520.5	1512.2	1343.1	952.8	681.4	552.7	508.6	495.0	483.3	480.6	482.6
37.5°	1622.6	1619.2	1406.1	931.8	614.0	509.6	468.9	450.9	433.9	424.6	424.9
40°	1734.6	1731.3	1447.5	899.5	554.3	472.2	433.3	409.6	388.6	371.6	373.2
42.5°	1860.7	1841.0	1467.2	853.1	503.6	440.5	404.3	372.2	344.5	328.8	329.8
45°	1998.4	1954.1	1466.8	794.1	460.9	411.5	373.2	327.9	302.2	287.5	286.8
47.5°	2144.5	2062.1	1448.8	728.8	419.5	379.6	325.1	290.5	273.5	264.4	262.5
50°	2295.3	2163.2	1418.1	653.7	377.2	343.2	295.2	271.5	258.5	250.1	247.1
52.5°	2437.0	2254.9	1381.1	568.7	334.2	307.8	281.8	263.5	249.8	240.5	236.5
55°	2568.8	2333.9	1328.7	481.6	299.2	284.1	275.5	260.1	244.5	233.5	229.1
57.5°	2685.8	2385.3	1238.4	399.9	274.2	267.8	268.9	254.5	236.5	227.1	221.1
60°	2783.2	2423.0	1104.6	324.2	253.8	251.8	258.5	243.8	222.8	212.1	207.5
62.5°	2841.6	2422.4	940.5	265.5	236.5	237.1	244.8	230.4	209.1	199.2	196.1
65°	2836.6	2362.9	760.4	227.1	219.8	220.5	230.4	215.8	197.8	191.8	191.5
67.5°	2736.2	2218.2	583.3	202.1	201.4	204.5	216.1	205.8	190.8	190.1	191.1
70°	2464.4	1917.8	420.2	182.1	182.4	186.8	202.1	199.5	187.1	188.4	188.1
72.5°	1976.1	1462.2	282.2	161.1	161.4	168.4	188.8	194.4	183.5	201.1	203.8
75°	1316.1	911.8	181.4	138.8	139.1	148.1	177.1	184.8	173.4	200.5	202.1
77.5°	632.3	409.9	131.4	116.7	116.7	125.0	153.1	165.4	147.7	155.8	142.8
80°	218.4	154.1	103.4	94.1	92.0	97.7	129.0	143.4	127.4	117.4	110.1
82.5°	86.0	80.1	83.0	73.1	66.4	70.0	100.3	118.4	93.7	84.7	84.4
85°	49.4	52.1	58.7	48.4	38.3	43.0	73.7	85.1	70.7	62.3	63.7
87.5°	13.3	18.3	27.1	25.0	17.3	18.3	35.1	47.0	40.7	31.4	32.4
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)