

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: P959370

Luminaire Tested: **NAV-SB1A-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4809.3 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

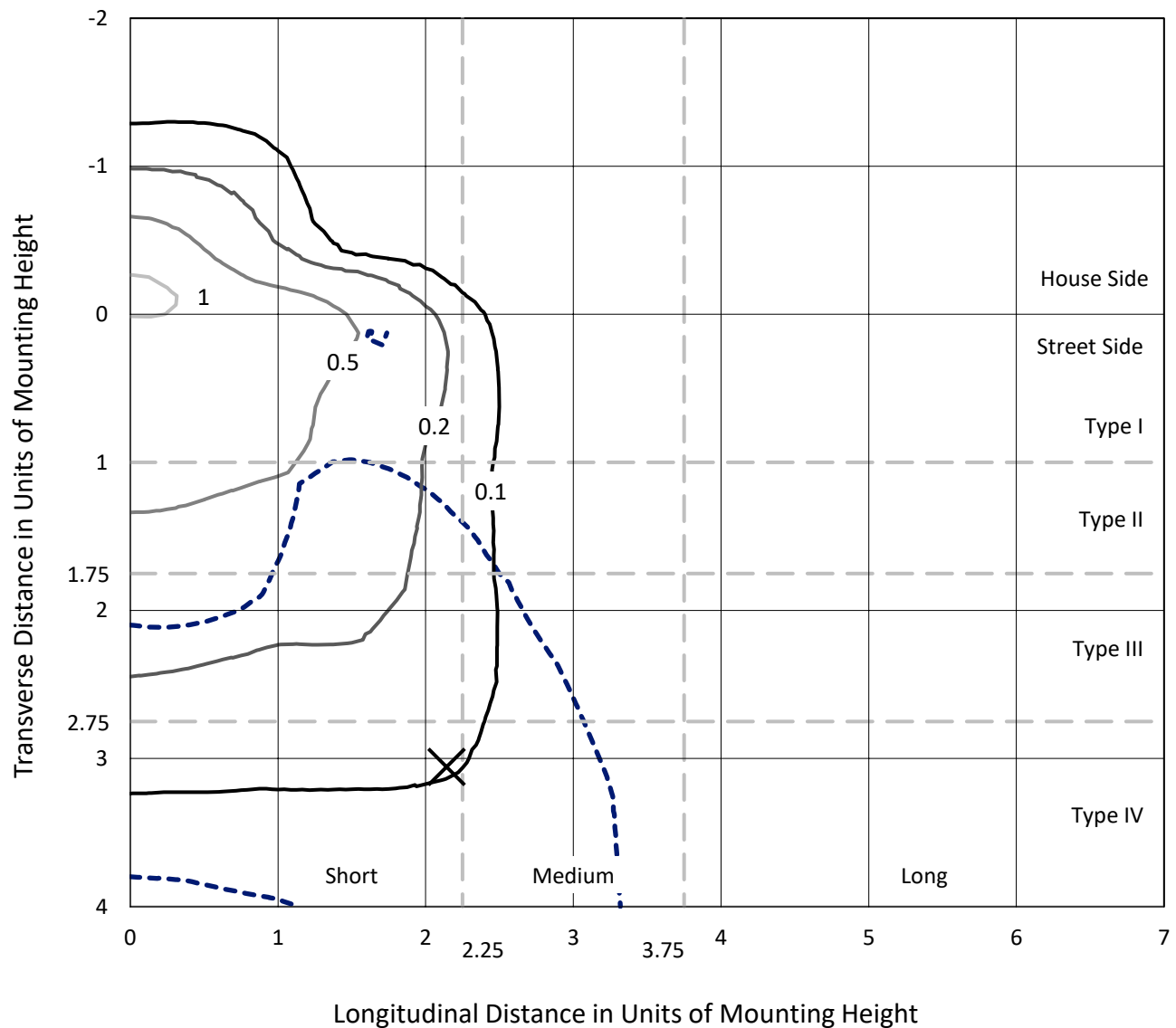


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Iso-Footcandle Lines of Horizontal Illumination

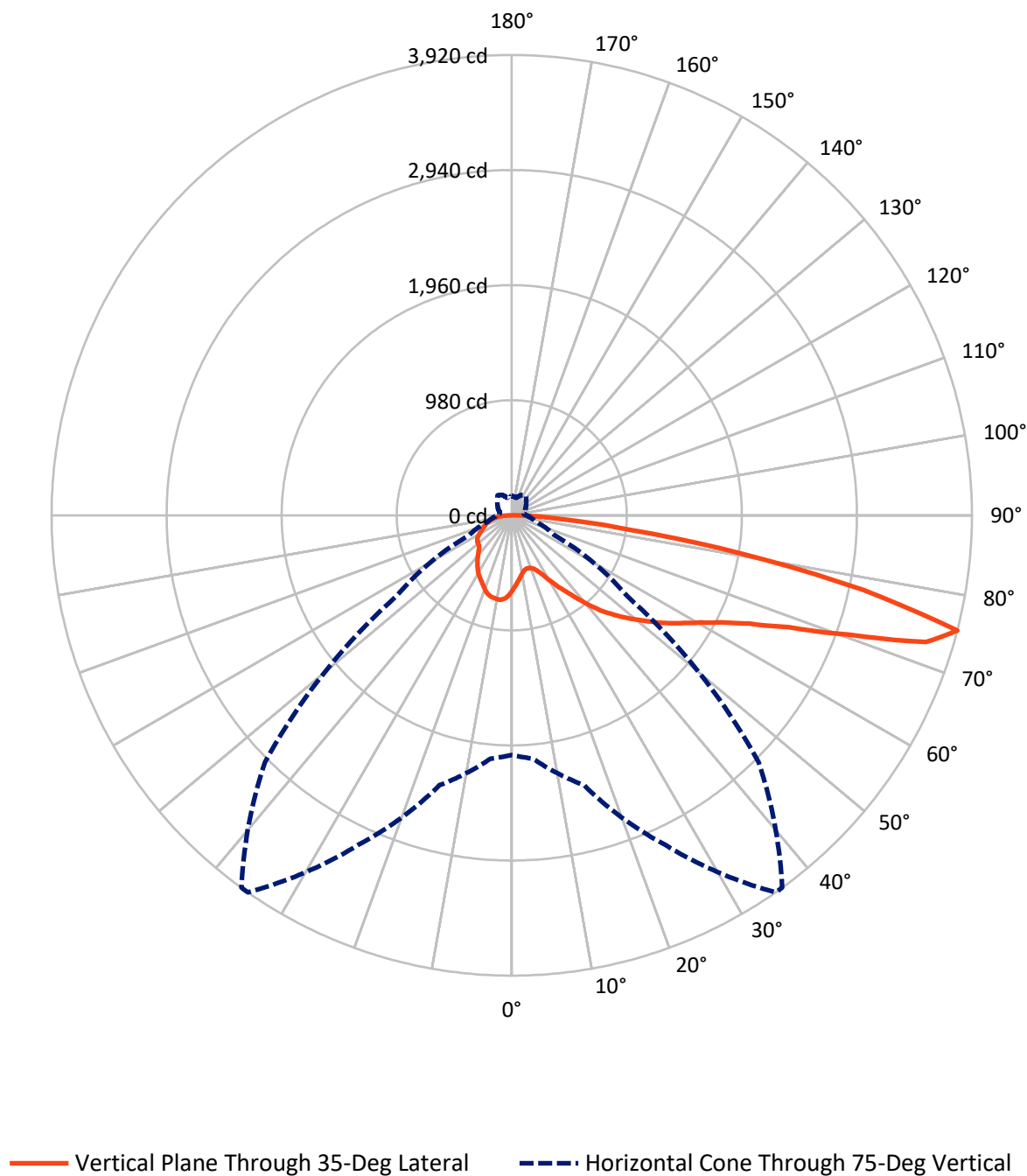
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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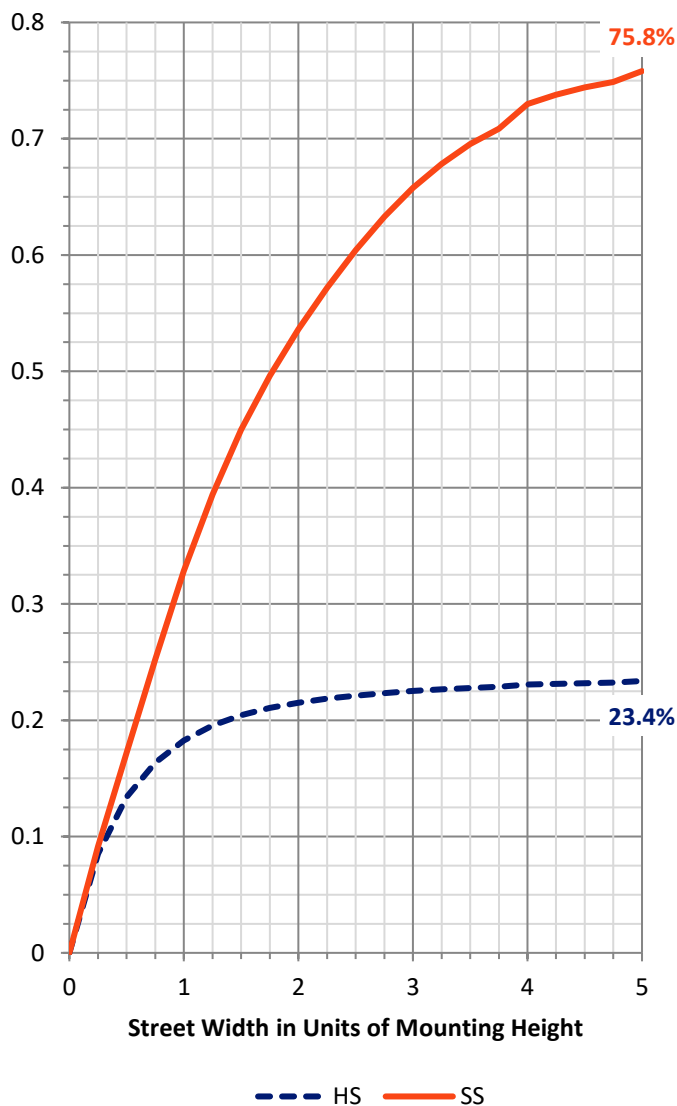
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1144.5	0.0	1144.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3664.8	0.0	3664.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	4809.3	0.0	4809.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.3
10°-20°	175.0	3.6
20°-30°	293.9	6.1
30°-40°	456.8	9.5
40°-50°	678.0	14.1
50°-60°	936.0	19.5
60°-70°	1135.6	23.6
70°-80°	938.4	19.5
80°-90°	135.0	2.8
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°	4809.3	100.0
0°-180°	4809.3	100.0

Coefficient of Utilization



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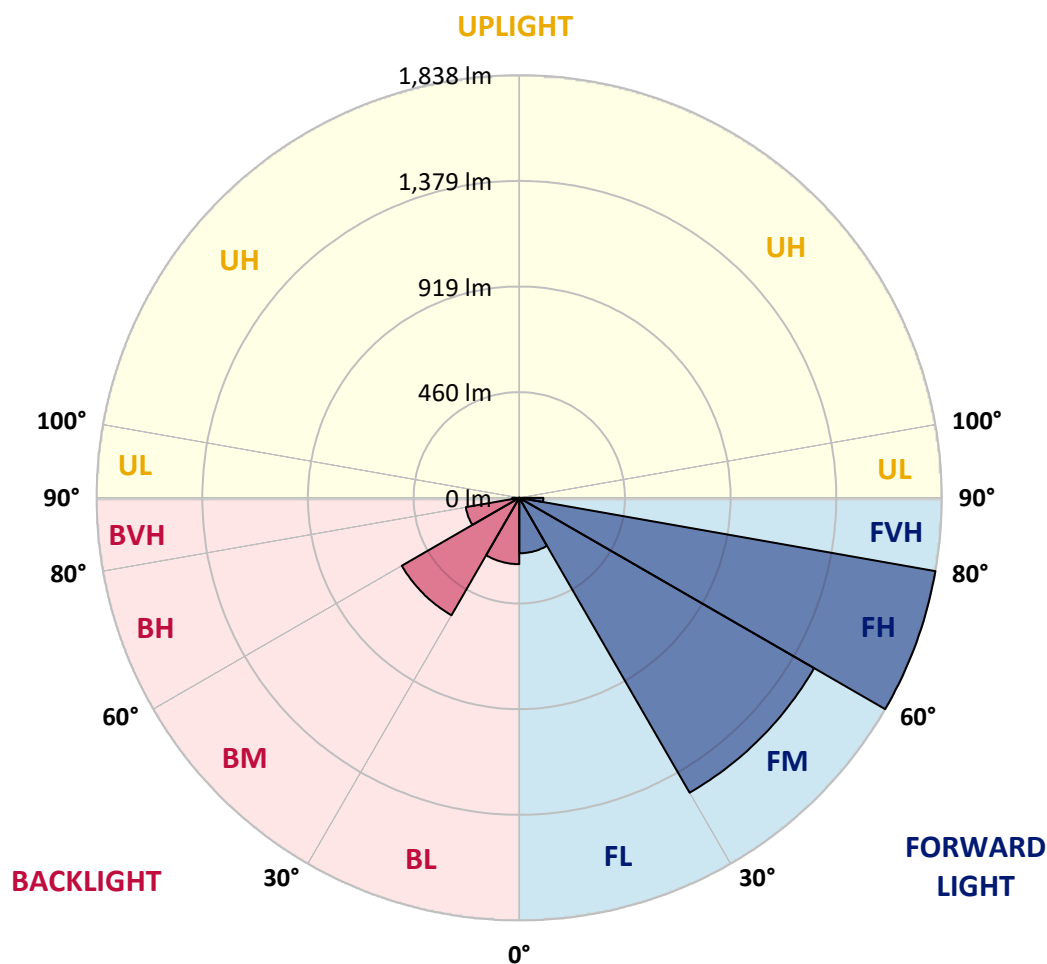
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.2	5.0			
FM	(30°-60°)	1481.0	30.8			
FH	(60°-80°)	1838.0	38.2			G2/5000
FVH	(80°-90°)	104.6	2.2			G2/225
BL	(0°-30°)	288.4	6.0	B1/500		
BM	(30°-60°)	589.7	12.3	B1/1000		
BH	(60°-80°)	236.0	4.9	B1/500		G1/500
BVH	(80°-90°)	30.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	590.9	594.6	596.1	595.4	599.3	598.7	604.2	611.0	620.3	629.5	642.7
5°	545.5	549.4	552.8	555.9	563.4	565.7	574.3	587.3	604.4	621.9	643.7
7.5°	503.1	506.5	511.7	517.4	530.1	532.5	546.7	567.0	590.9	616.4	646.6
10°	468.5	471.9	477.3	483.8	499.7	502.6	520.8	547.8	579.0	611.2	649.7
12.5°	453.7	454.7	457.9	464.3	478.2	479.9	500.0	530.8	567.3	607.3	654.4
15°	452.9	455.0	455.2	458.6	470.1	470.9	489.3	520.0	560.1	606.6	661.4
17.5°	460.7	462.3	459.9	462.0	471.6	472.9	487.5	514.8	557.7	610.0	673.3
20°	481.5	482.8	475.8	472.9	479.9	480.9	495.3	518.1	560.1	616.9	689.7
22.5°	525.7	526.4	509.3	497.6	498.2	498.7	511.2	532.0	569.1	629.7	710.5
25°	594.6	594.1	566.8	544.2	531.2	528.3	536.6	554.3	584.5	646.6	737.3
27.5°	675.2	671.3	644.0	610.2	581.9	577.7	575.8	583.4	606.3	668.9	770.1
30°	766.2	762.5	733.2	689.0	649.7	643.0	625.8	621.9	638.8	699.4	815.6
32.5°	866.0	863.7	828.6	775.0	722.5	714.7	685.8	675.5	688.7	745.4	879.0
35°	949.8	947.6	918.5	863.5	799.2	789.6	760.2	748.6	755.2	804.4	962.0
37.5°	1025.4	1024.4	999.4	956.0	889.7	878.0	845.0	841.0	839.8	882.1	1062.6
40°	1095.6	1093.0	1067.0	1044.1	995.0	984.3	955.2	951.8	942.0	977.8	1176.5
42.5°	1173.3	1166.6	1128.8	1118.2	1104.9	1096.1	1078.7	1079.2	1057.4	1085.7	1297.0
45°	1236.8	1232.9	1194.1	1187.9	1202.2	1198.5	1213.6	1217.5	1175.2	1198.8	1422.4
47.5°	1304.9	1301.2	1268.4	1264.0	1302.8	1303.8	1357.1	1358.4	1290.1	1316.3	1548.0
50°	1388.9	1383.6	1351.2	1356.6	1400.0	1403.9	1501.4	1492.6	1395.8	1435.6	1672.5
52.5°	1444.2	1447.4	1440.3	1449.1	1508.5	1512.1	1643.4	1620.7	1500.7	1553.4	1794.7
55°	1485.0	1491.3	1513.1	1533.4	1622.9	1626.5	1777.2	1742.7	1587.5	1662.7	1909.6
57.5°	1537.6	1528.7	1569.6	1609.0	1731.5	1741.2	1907.5	1860.2	1664.5	1756.7	1988.4
60°	1612.9	1606.7	1638.5	1697.0	1853.2	1868.6	2045.3	1966.1	1720.9	1831.4	2003.8
62.5°	1765.9	1750.3	1755.2	1806.9	2006.6	2026.8	2200.8	2058.3	1749.0	1860.5	1921.6
65°	1994.3	1967.6	1942.7	1978.6	2222.6	2242.7	2376.3	2130.9	1738.5	1804.1	1703.4
67.5°	2282.2	2255.6	2225.0	2258.8	2540.9	2556.8	2592.8	2171.7	1656.6	1586.7	1317.8
70°	2519.6	2509.7	2546.3	2685.4	3049.2	3049.7	2870.5	2137.8	1432.2	1124.9	762.5
72.5°	2488.1	2482.1	2675.2	3105.3	3689.8	3676.0	3133.4	1882.1	964.8	507.5	285.8
75°	2041.2	2079.9	2379.1	3097.8	3919.8	3918.1	2972.5	1196.5	399.0	210.3	147.7
77.5°	1094.6	1155.9	1544.6	2287.1	3060.0	3106.1	2089.8	418.6	171.4	134.7	102.2
80°	357.0	410.5	615.6	1164.5	1988.4	1979.8	895.6	164.3	117.3	95.4	70.7
82.5°	151.6	157.8	275.1	549.9	1020.5	1004.6	285.3	94.4	82.4	65.3	43.7
85°	59.2	66.3	121.5	254.3	442.0	432.3	102.9	46.8	52.8	42.6	26.0
87.5°	19.5	23.7	43.5	87.1	137.6	132.6	25.2	16.1	22.9	19.5	9.3
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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	646.4	650.5	655.4	662.7	668.9	674.1	679.6	683.0	684.3	688.2	688.0
5°	651.0	660.1	672.3	684.3	696.0	703.0	709.2	712.4	715.2	717.3	717.8
7.5°	658.8	670.6	689.7	705.3	715.2	721.0	725.1	724.1	725.1	725.6	726.4
10°	665.5	681.9	704.8	719.7	727.2	727.4	726.4	722.7	721.0	721.2	721.7
12.5°	673.6	691.9	716.6	729.0	731.1	725.4	721.0	714.7	712.4	711.3	710.8
15°	684.6	705.3	729.3	733.9	728.8	721.5	713.9	703.8	698.6	694.4	695.8
17.5°	697.8	720.7	739.1	735.7	724.6	712.6	700.4	685.1	674.4	669.9	670.2
20°	716.3	736.8	746.7	731.8	714.9	696.8	676.0	657.2	647.4	643.0	642.5
22.5°	738.6	758.4	754.0	725.1	701.2	672.1	646.1	632.3	627.4	624.2	624.7
25°	765.4	782.3	759.2	715.2	678.6	639.3	619.3	614.9	612.5	610.2	610.2
27.5°	800.2	809.3	763.1	700.7	643.2	604.4	597.2	598.0	597.2	593.3	594.1
30°	846.2	844.4	766.7	677.0	602.7	573.0	573.5	576.9	577.5	574.8	576.2
32.5°	906.8	888.4	768.5	646.4	564.0	545.5	546.0	549.6	552.2	547.8	549.9
35°	980.2	939.6	765.7	607.8	534.0	519.2	515.3	516.3	517.1	512.9	515.8
37.5°	1065.7	997.0	753.0	565.2	509.3	493.4	485.1	478.2	474.0	470.1	472.6
40°	1159.6	1059.7	729.5	523.6	481.7	466.2	453.7	440.4	426.4	421.2	423.5
42.5°	1257.8	1124.2	701.2	483.8	450.1	437.3	424.0	404.8	383.8	373.1	374.4
45°	1359.8	1190.2	673.3	444.5	417.6	412.0	396.8	373.6	350.8	337.2	336.2
47.5°	1459.6	1252.7	632.5	405.1	387.1	393.1	381.1	359.8	334.4	313.0	310.7
50°	1555.0	1311.1	565.7	365.0	362.4	387.3	376.0	345.2	316.1	288.8	286.5
52.5°	1649.6	1358.4	480.2	328.6	349.1	385.8	369.2	335.4	299.8	271.2	268.0
55°	1730.0	1382.9	397.8	297.5	329.9	372.6	361.1	323.7	276.6	246.2	243.6
57.5°	1775.7	1363.1	329.1	266.7	303.4	350.8	347.4	298.7	249.1	225.7	222.5
60°	1755.9	1283.0	273.0	240.0	278.2	327.1	323.4	274.0	228.0	205.9	202.7
62.5°	1647.1	1130.5	228.6	216.6	255.3	302.9	299.5	255.0	211.9	190.5	187.2
65°	1427.6	919.6	193.9	197.1	232.2	273.8	278.7	239.2	199.2	178.4	175.0
67.5°	1088.9	666.0	166.9	180.2	209.5	245.2	259.4	227.8	188.5	168.7	165.6
70°	620.6	378.3	144.0	163.8	189.5	218.6	244.7	218.6	177.0	160.7	158.6
72.5°	235.3	173.6	124.5	147.4	170.3	196.3	228.3	204.4	163.8	151.6	149.4
75°	125.6	105.8	104.8	128.1	148.2	174.5	207.8	190.3	154.0	160.1	165.3
77.5°	85.5	74.9	87.6	109.7	124.0	150.3	185.9	169.0	133.4	132.8	122.5
80°	59.2	53.0	71.2	88.4	95.9	126.4	162.3	145.0	108.6	101.4	97.0
82.5°	35.6	34.5	53.3	66.0	67.9	97.5	134.4	121.7	88.9	77.5	78.0
85°	19.5	20.5	34.0	38.7	39.6	68.2	105.3	94.1	68.4	57.5	58.0
87.5°	5.4	7.0	12.5	15.4	19.0	35.4	62.6	55.9	34.3	23.9	23.9
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)