

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: P960244

Luminaire Tested: **NAV-SB1C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5408.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

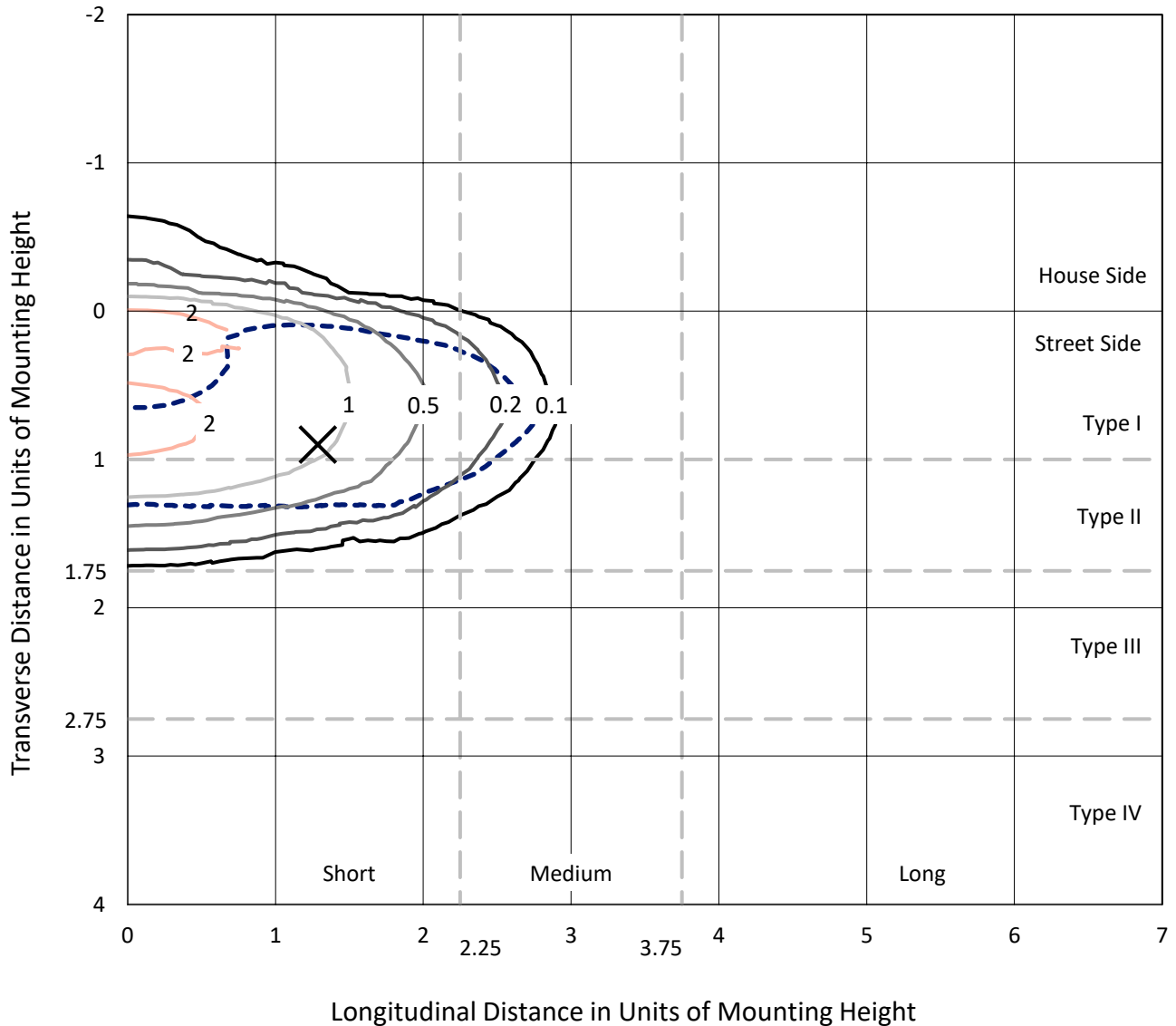
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960244
 CATALOG NUMBER: NAV-SB1C-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

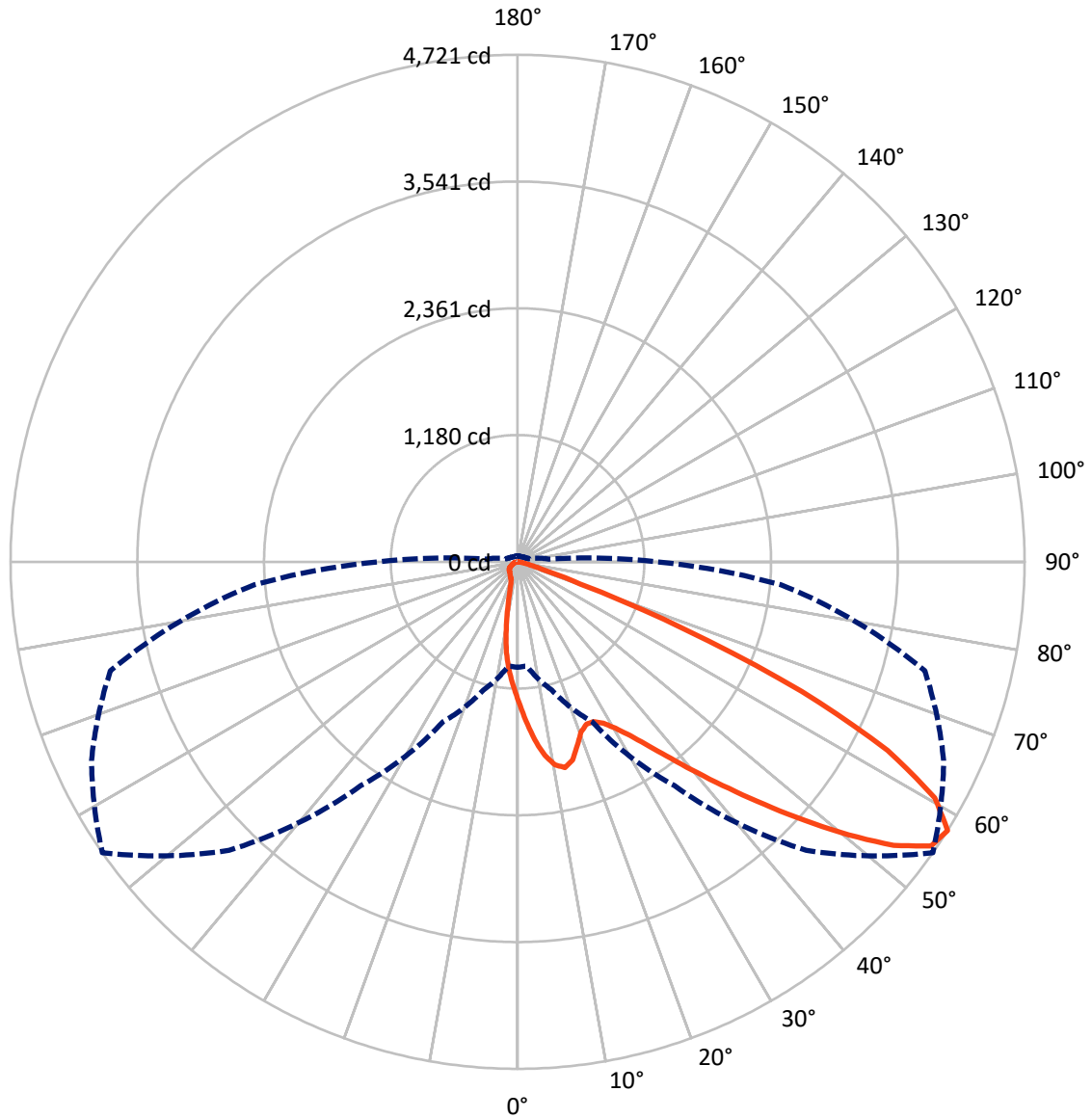
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

REPORT NUMBER: P960244
CATALOG NUMBER: NAV-SB1C-722-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB1C-722-U-AFL-HSS

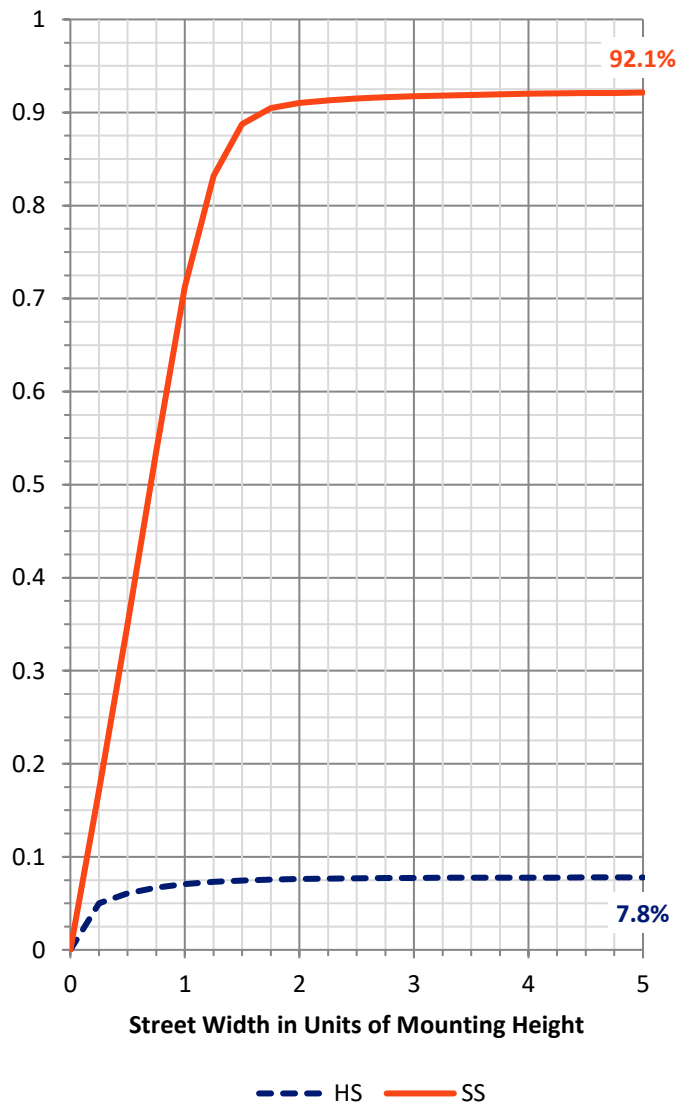
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.4	0.0	422.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4986.5	0.0	4986.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	5408.9	0.0	5408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	2.2
10°-20°	292.9	5.4
20°-30°	468.7	8.7
30°-40°	793.3	14.7
40°-50°	1302.4	24.1
50°-60°	1431.5	26.5
60°-70°	821.1	15.2
70°-80°	167.8	3.1
80°-90°	9.9	0.2
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°	5408.9	100.0
0°-180°	5408.9	100.0

Coefficient of Utilization

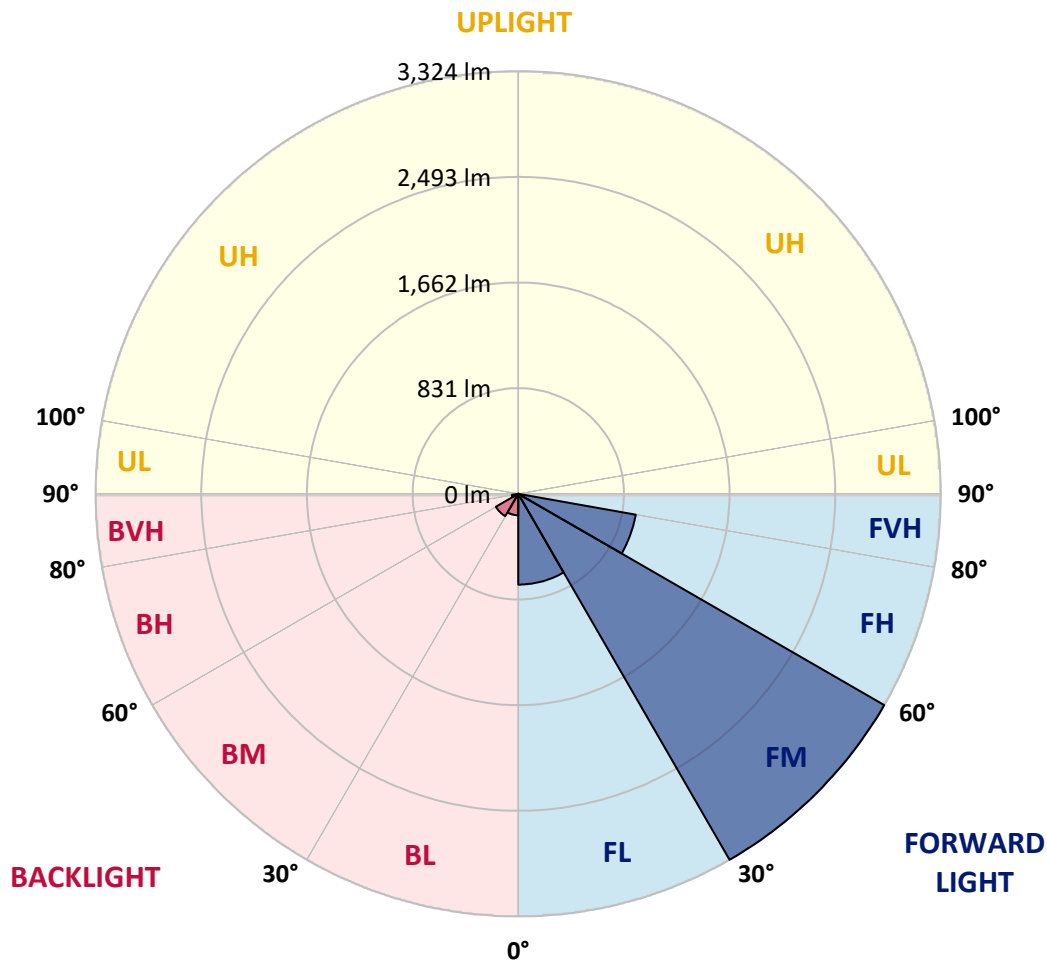


REPORT NUMBER: P960244
 CATALOG NUMBER: NAV-SB1C-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.3	13.2			
FM (30°-60°)	3324.4	61.5			
FH (60°-80°)	938.6	17.4			G1/1800
FVH (80°-90°)	9.2	0.2			G0/10
BL (0°-30°)	168.6	3.1	B1/500		
BM (30°-60°)	202.9	3.8	B0/220		
BH (60°-80°)	50.2	0.9	B0/110		G0/110
BVH (80°-90°)	0.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
2.5°	1617.2	1596.9	1593.9	1589.9	1551.2	1522.2	1480.2	1434.2	1382.4	1329.7	1306.5
5°	1868.4	1852.4	1849.4	1830.8	1786.7	1737.4	1662.7	1568.2	1471.8	1358.4	1309.7
7.5°	1917.1	1914.1	1927.8	1927.1	1921.2	1882.1	1819.1	1706.6	1561.9	1393.8	1318.5
10°	1700.0	1707.6	1748.3	1784.0	1880.5	1936.4	1922.8	1830.0	1654.7	1434.2	1328.1
12.5°	1502.2	1493.2	1522.2	1562.6	1674.6	1841.4	1965.8	1933.2	1760.6	1479.9	1342.4
15°	1378.1	1374.4	1390.8	1409.5	1494.9	1663.0	1915.7	2016.8	1862.7	1533.9	1364.1
17.5°	1338.4	1335.5	1340.4	1345.1	1400.5	1530.5	1796.7	2068.1	1960.4	1595.6	1388.2
20°	1370.8	1366.8	1366.1	1362.4	1385.5	1474.2	1689.0	2071.8	2048.2	1651.6	1408.9
22.5°	1465.1	1460.5	1444.1	1429.5	1431.5	1481.8	1640.9	2035.1	2114.3	1704.0	1421.8
25°	1636.3	1628.6	1594.6	1545.2	1513.8	1535.2	1648.3	1986.9	2177.3	1745.0	1415.5
27.5°	1850.4	1840.4	1796.7	1723.3	1651.6	1625.6	1701.3	1953.4	2229.6	1776.3	1401.8
30°	2060.1	2047.1	2004.2	1947.1	1842.4	1760.3	1797.0	1968.1	2292.0	1809.0	1383.7
32.5°	2286.7	2274.3	2217.3	2146.6	2059.8	1949.4	1928.1	2039.9	2368.4	1854.7	1371.1
35°	2573.2	2553.8	2472.7	2376.4	2284.3	2172.6	2105.6	2163.6	2470.0	1924.4	1378.1
37.5°	2899.3	2873.3	2786.0	2652.9	2532.8	2407.7	2321.6	2333.7	2619.2	2017.8	1399.8
40°	3206.8	3183.1	3102.5	2977.0	2826.3	2674.5	2582.8	2556.1	2825.0	2131.6	1437.9
42.5°	3391.3	3369.9	3336.0	3282.9	3155.8	3001.1	2885.4	2827.7	3068.4	2267.6	1484.2
45°	3401.7	3382.9	3428.6	3490.3	3465.3	3362.3	3221.2	3115.5	3312.9	2395.4	1532.2
47.5°	3236.2	3223.5	3362.3	3577.8	3685.1	3728.4	3598.4	3379.3	3514.7	2487.1	1551.8
50°	2785.2	2780.6	3066.1	3461.6	3768.8	4049.4	3996.3	3624.7	3671.1	2534.4	1533.2
52.5°	2415.1	2398.1	2564.4	3090.1	3647.1	4218.1	4385.2	3865.6	3780.5	2543.4	1489.5
55°	1831.7	1816.7	2025.5	2468.4	3254.6	4158.0	4669.7	4114.0	3858.9	2520.5	1411.1
57.5°	982.6	973.2	1237.1	1643.0	2544.2	3797.8	4721.0	4376.9	3924.9	2459.4	1301.4
60°	382.5	380.9	479.6	797.1	1546.2	3089.8	4461.9	4534.6	3966.2	2384.4	1209.7
62.5°	231.4	236.5	252.5	357.8	683.1	1919.4	3864.6	4355.2	3994.0	2315.7	1134.0
65°	191.5	191.8	193.8	245.8	327.2	803.1	2909.4	3764.8	3925.5	2193.3	1026.6
67.5°	164.1	167.1	174.8	195.2	230.8	352.2	1675.0	2916.3	3509.7	1908.4	859.2
70°	129.5	133.5	143.1	160.4	178.1	220.5	619.0	1940.4	2681.2	1438.5	649.7
72.5°	109.1	108.8	113.8	130.4	141.4	155.1	238.1	1087.3	1558.2	686.7	321.5
75°	84.4	87.7	94.1	109.1	115.7	112.4	129.0	397.2	558.3	208.1	109.4
77.5°	66.0	68.7	74.4	89.1	95.7	79.7	74.4	142.1	179.5	74.7	49.4
80°	29.7	32.0	50.7	65.7	78.0	55.0	40.4	72.7	79.7	34.0	25.0
82.5°	5.3	9.0	29.7	34.6	40.0	35.7	21.0	37.7	39.1	13.6	8.7
85°	0.3	0.7	10.4	12.7	16.0	11.7	6.4	15.0	13.0	4.7	3.4
87.5°	0.0	0.0	0.0	0.3	0.3	1.6	2.0	2.7	2.0	1.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P960244
 CATALOG NUMBER: NAV-SB1C-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4	1303.4
2.5°	1282.4	1235.0	1189.0	1151.3	1129.3	1091.9	1067.3	1063.2	1053.0	1061.9
5°	1257.7	1173.0	1087.3	1010.5	947.5	866.1	805.4	779.8	757.5	765.1
7.5°	1246.1	1112.3	978.9	847.8	713.1	583.0	486.3	445.9	415.2	419.5
10°	1230.4	1049.3	840.2	640.0	459.6	331.2	264.4	239.8	226.1	226.4
12.5°	1218.4	973.9	679.1	433.9	279.8	211.5	190.8	184.8	180.8	181.1
15°	1212.4	885.2	520.0	289.2	200.1	179.1	174.1	171.5	168.7	168.4
17.5°	1202.3	786.5	380.6	211.2	175.1	167.8	163.4	160.4	157.1	156.4
20°	1187.4	674.3	278.2	178.5	164.1	158.5	152.4	148.4	144.4	143.7
22.5°	1159.7	556.0	213.8	165.1	156.1	149.8	142.4	137.8	133.8	133.0
25°	1108.3	445.0	180.1	156.7	149.0	141.4	133.5	127.1	123.4	122.7
27.5°	1043.2	349.5	163.4	149.0	140.1	133.0	124.0	118.1	114.7	114.1
30°	966.6	269.2	153.8	140.4	129.5	123.4	115.4	110.4	108.4	108.4
32.5°	883.9	215.1	149.8	131.7	120.0	113.4	107.1	105.1	104.3	104.0
35°	806.2	186.8	147.7	124.7	111.7	105.4	102.7	103.0	104.3	104.3
37.5°	737.1	177.7	146.8	119.7	104.3	98.7	100.3	103.4	102.1	102.1
40°	674.8	178.8	146.1	116.0	98.4	95.0	98.4	96.0	92.8	92.4
42.5°	627.0	187.1	144.7	113.1	94.7	92.4	91.0	87.4	87.0	87.7
45°	592.3	194.4	144.4	111.7	90.7	86.4	84.7	81.1	87.7	89.4
47.5°	551.3	194.4	144.4	107.1	84.0	82.4	79.7	75.7	82.4	84.0
50°	498.3	182.1	138.8	101.7	78.7	77.7	73.1	68.1	66.7	67.8
52.5°	431.2	159.8	124.4	94.4	73.4	71.3	65.7	62.0	61.0	61.0
55°	354.9	133.8	105.1	83.7	67.8	64.1	60.1	58.3	57.4	56.7
57.5°	288.5	109.8	84.4	74.4	62.3	57.7	56.4	54.3	52.7	51.7
60°	236.8	86.4	69.7	66.0	57.0	52.7	52.4	49.7	45.4	44.7
62.5°	182.8	63.3	58.7	57.4	51.7	48.1	47.4	42.0	35.4	34.0
65°	129.0	49.4	47.4	50.3	46.0	42.7	41.0	33.0	26.0	25.0
67.5°	90.7	41.3	37.3	44.1	40.0	35.7	34.6	28.0	21.7	21.0
70°	64.7	33.7	30.6	37.7	32.0	31.4	29.3	23.4	17.6	17.0
72.5°	45.7	25.7	23.7	32.7	22.0	27.1	24.0	18.0	13.3	12.7
75°	33.7	18.3	16.7	19.0	16.0	20.3	17.0	12.0	8.3	8.0
77.5°	24.7	11.7	10.0	9.3	9.3	12.7	9.3	5.0	3.7	3.4
80°	17.3	5.3	4.7	4.0	3.7	3.0	1.3	0.7	0.3	0.3
82.5°	10.4	2.4	2.4	1.6	1.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	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

(END OF REPORT)