

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: P963984

Luminaire Tested: **NAV-SB3B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12597.2 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

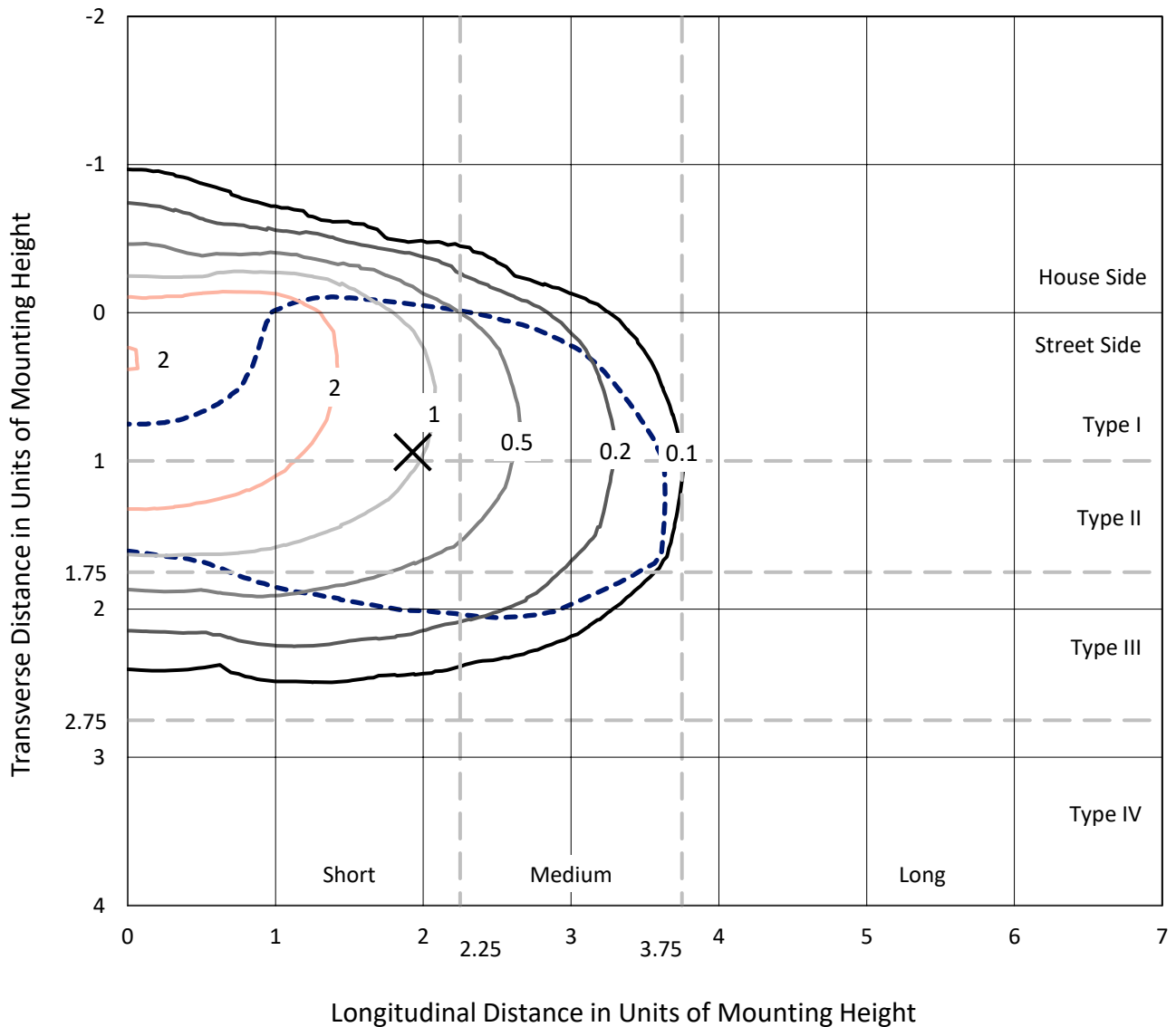
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

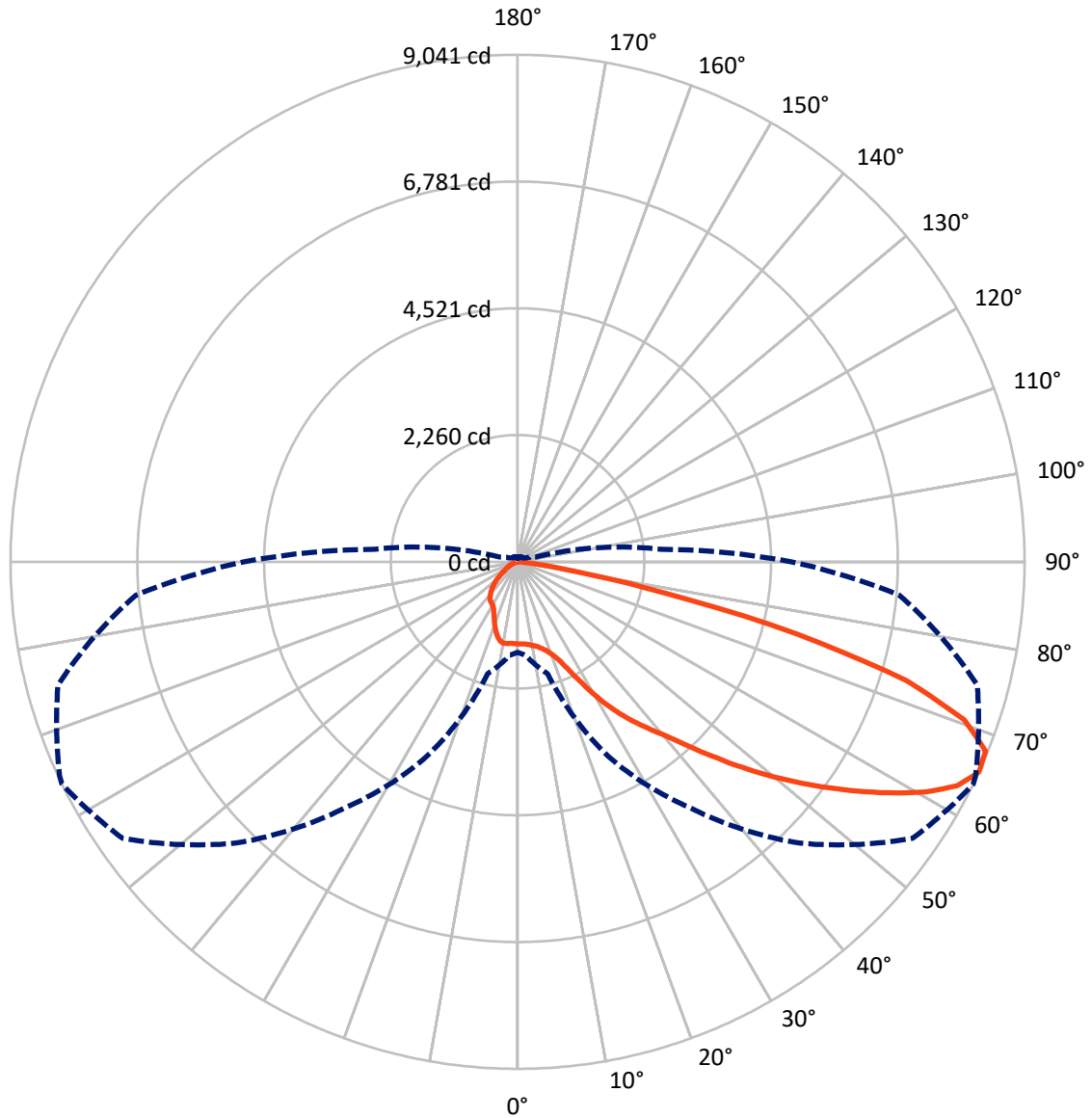
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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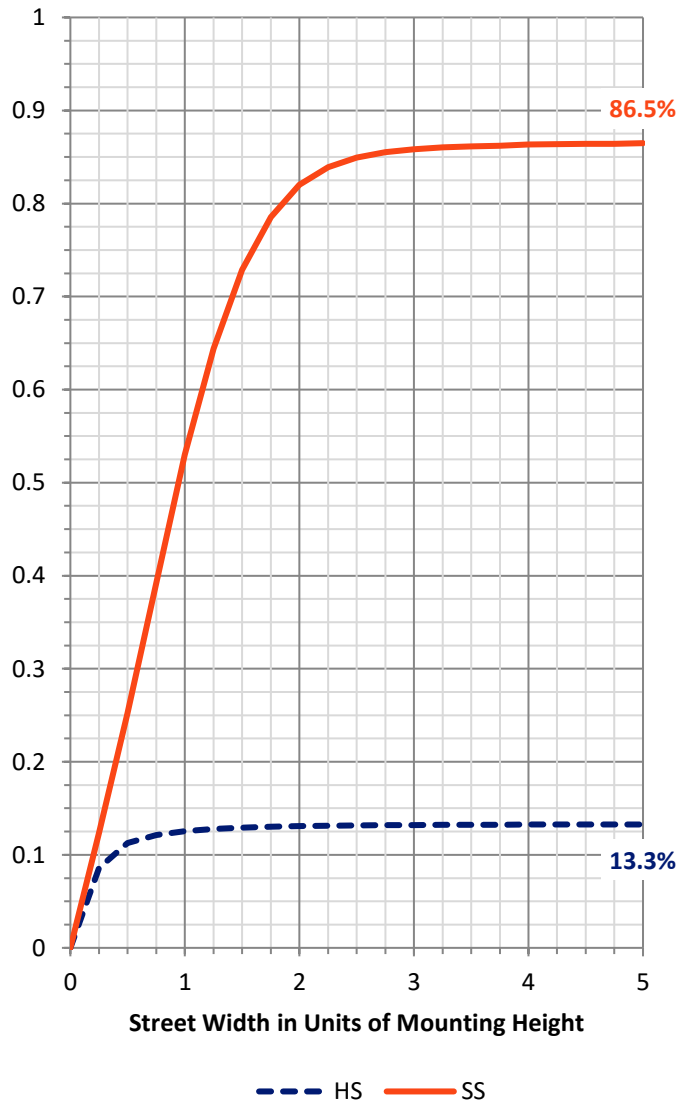
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.6	0.0	1684.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10912.6	0.0	10912.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	12597.2	0.0	12597.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.1
10°-20°	366.6	2.9
20°-30°	694.8	5.5
30°-40°	1405.9	11.2
40°-50°	2394.9	19.0
50°-60°	3256.9	25.9
60°-70°	3058.4	24.3
70°-80°	1225.3	9.7
80°-90°	59.4	0.5
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°	12597.2	100.0
0°-180°	12597.2	100.0

Coefficient of Utilization



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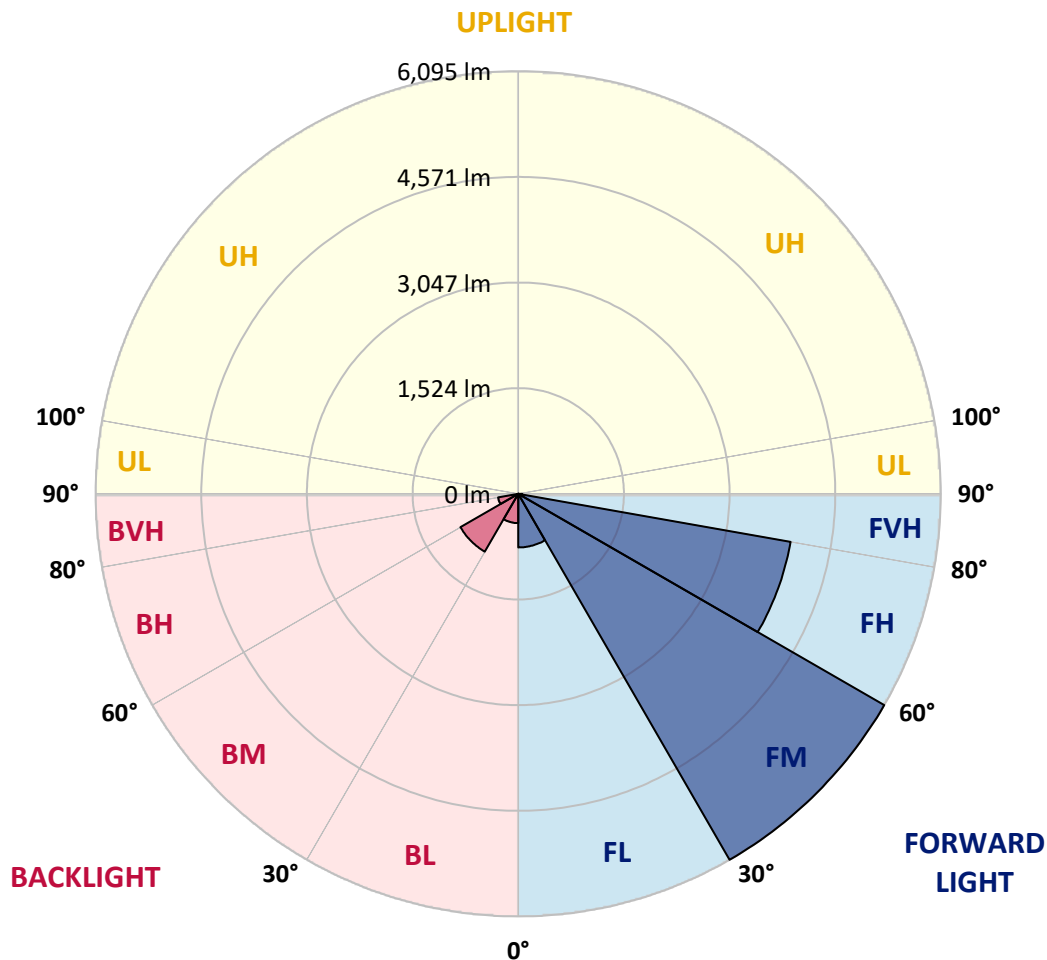
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.6	6.1			
FM (30°-60°)	6094.5	48.4			
FH (60°-80°)	3988.0	31.7			G2/5000
FVH (80°-90°)	56.5	0.4			G1/100
BL (0°-30°)	423.0	3.4	B1/500		
BM (30°-60°)	963.1	7.6	B1/1000		
BH (60°-80°)	295.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2
2.5°	1460.1	1470.3	1467.7	1465.2	1464.3	1466.1	1466.9	1466.1	1466.1	1466.1	1466.9
5°	1432.2	1440.7	1440.7	1446.6	1455.1	1465.2	1472.8	1474.5	1476.2	1478.7	1477.8
7.5°	1379.0	1385.8	1390.9	1410.3	1431.4	1458.5	1481.2	1493.0	1494.8	1504.1	1507.4
10°	1342.7	1351.2	1359.7	1379.9	1410.3	1450.8	1489.6	1518.4	1522.6	1544.6	1554.7
12.5°	1341.0	1349.5	1360.5	1382.4	1417.9	1460.9	1508.3	1549.6	1557.3	1589.4	1610.5
15°	1358.7	1368.9	1379.0	1406.1	1444.1	1496.4	1547.1	1598.6	1606.2	1651.8	1674.6
17.5°	1395.1	1408.7	1416.2	1443.2	1483.8	1542.0	1608.7	1667.9	1674.6	1727.8	1756.5
20°	1466.9	1483.0	1485.4	1507.4	1547.1	1609.6	1689.0	1762.5	1770.9	1831.7	1863.8
22.5°	1615.5	1638.4	1618.1	1629.0	1664.5	1727.0	1813.1	1906.0	1917.9	1987.1	2015.8
25°	1877.3	1909.4	1857.0	1838.4	1853.6	1918.7	2026.7	2144.2	2157.6	2213.4	2227.7
27.5°	2391.6	2350.2	2270.8	2193.2	2147.6	2184.7	2306.4	2451.6	2468.4	2522.5	2505.6
30°	2956.5	2920.2	2813.0	2640.7	2532.7	2526.7	2639.1	2801.2	2820.6	2872.2	2820.6
32.5°	3522.4	3487.8	3371.2	3159.3	2971.8	2878.9	2956.5	3136.4	3146.5	3179.5	3103.5
35°	4078.9	4043.4	3926.9	3709.9	3479.3	3268.2	3252.9	3455.7	3459.1	3493.6	3380.4
37.5°	4638.7	4609.2	4485.1	4272.3	4045.1	3753.8	3612.7	3758.0	3762.2	3796.0	3678.6
40°	5038.2	5050.9	4965.6	4800.9	4605.8	4287.5	4016.4	4079.7	4054.4	4111.0	4040.9
42.5°	5381.0	5406.5	5332.2	5249.3	5136.2	4855.8	4516.4	4505.4	4464.8	4495.2	4422.6
45°	5677.5	5698.6	5631.9	5612.5	5609.9	5413.2	5062.7	4996.9	4940.3	4934.3	4847.3
47.5°	5786.4	5827.0	5855.7	5920.7	6047.4	5964.7	5627.7	5525.5	5462.1	5415.7	5278.0
50°	5827.8	5870.9	5968.9	6158.0	6457.8	6493.3	6190.1	6075.3	5997.6	5913.1	5710.5
52.5°	5772.1	5849.0	5980.7	6299.0	6733.9	6917.2	6729.7	6629.3	6540.6	6403.0	6102.3
55°	5443.6	5520.4	5789.8	6297.4	6871.6	7214.5	7239.8	7195.1	7095.5	6878.4	6419.0
57.5°	4751.1	4865.1	5291.6	6082.9	6869.0	7470.4	7739.8	7771.9	7660.3	7349.6	6668.1
60°	3791.8	3946.4	4466.5	5607.5	6657.1	7608.9	8178.1	8338.5	8220.3	7814.1	6870.0
62.5°	2645.8	2824.8	3317.2	4862.6	6172.3	7509.3	8498.1	8794.5	8705.0	8229.5	6947.7
65°	1613.9	1671.3	2068.1	3826.4	5348.1	7092.1	8596.9	9041.1	9011.6	8483.7	6832.8
67.5°	1075.0	1123.2	1237.2	2623.8	4151.6	6258.5	8360.4	8998.1	9006.5	8442.4	6412.2
70°	647.7	689.1	763.4	1526.0	2690.5	4953.8	7628.3	8449.2	8498.1	7889.2	5615.1
72.5°	266.9	294.7	362.3	691.7	1393.4	3144.1	6074.5	7254.1	7368.2	6633.5	4309.4
75°	151.2	165.5	212.8	347.1	604.6	1465.2	3679.4	5149.7	5317.8	4572.1	2592.6
77.5°	100.4	107.2	137.7	224.7	340.3	499.9	1572.5	2682.9	3003.9	2497.2	1122.4
80°	67.5	73.5	94.6	150.4	221.3	214.5	500.8	993.9	1222.8	858.0	273.6
82.5°	45.6	46.4	67.5	98.8	140.2	103.8	147.8	309.0	388.5	248.3	103.8
85°	26.1	25.3	49.8	57.4	62.5	43.0	44.8	92.9	121.6	104.8	59.1
87.5°	3.4	5.0	19.4	15.2	8.4	9.3	9.3	16.1	23.7	25.3	12.7
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°	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2	1465.2
2.5°	1466.9	1466.1	1463.5	1460.9	1455.1	1451.7	1453.3	1451.7	1450.8	1451.7	1455.1
5°	1477.8	1475.3	1468.6	1460.1	1448.3	1434.0	1424.6	1411.1	1398.5	1390.9	1392.6
7.5°	1507.4	1504.9	1495.6	1471.9	1434.0	1374.0	1319.1	1271.0	1234.6	1213.5	1214.4
10°	1554.7	1550.5	1536.2	1483.8	1384.2	1253.3	1144.3	1053.9	994.8	967.0	964.4
12.5°	1610.5	1605.4	1580.0	1472.8	1289.6	1085.2	934.8	834.4	779.5	755.0	752.5
15°	1676.3	1669.5	1619.7	1420.4	1151.9	899.3	761.8	686.5	651.1	629.1	630.0
17.5°	1758.2	1746.4	1649.3	1341.9	1002.4	757.5	655.3	598.7	567.5	546.4	544.7
20°	1864.7	1845.2	1672.9	1248.1	864.8	668.0	583.5	536.3	512.6	494.0	490.7
22.5°	2013.3	1985.4	1701.6	1146.8	767.6	606.4	530.3	495.7	476.3	455.2	451.8
25°	2197.4	2164.4	1737.1	1053.1	700.9	553.2	491.5	462.8	439.9	415.5	413.0
27.5°	2455.0	2395.8	1779.3	976.2	643.5	507.6	456.0	423.9	397.8	377.5	373.3
30°	2742.1	2644.9	1816.5	929.8	591.1	465.4	409.6	377.5	353.0	338.7	336.1
32.5°	3014.0	2882.2	1841.0	909.5	543.9	417.2	359.0	324.3	305.7	301.5	304.0
35°	3270.7	3096.7	1838.4	890.1	501.6	369.0	309.0	273.6	259.2	261.8	261.8
37.5°	3566.3	3325.6	1820.7	859.7	467.0	325.1	266.0	234.7	222.1	222.9	226.3
40°	3910.0	3590.0	1809.7	802.3	429.0	284.6	230.5	205.2	195.9	192.5	191.7
42.5°	4276.5	3845.8	1811.5	737.3	381.7	248.3	206.0	184.9	176.5	173.9	173.1
45°	4644.7	4089.9	1813.9	669.6	331.9	220.4	188.3	170.6	165.5	162.2	162.2
47.5°	4990.9	4297.6	1766.7	597.1	282.9	199.3	173.9	162.2	158.0	153.6	153.6
50°	5313.5	4436.1	1652.7	512.6	244.1	182.4	163.0	154.6	150.4	146.1	146.1
52.5°	5564.3	4458.0	1464.3	425.6	217.0	169.7	156.2	148.6	143.6	139.3	138.5
55°	5675.8	4320.4	1196.7	344.5	195.9	158.8	149.4	141.9	135.9	131.7	130.9
57.5°	5647.1	4030.7	933.2	277.0	175.7	147.8	141.0	135.9	129.3	122.5	121.6
60°	5506.1	3643.2	703.5	230.5	157.0	135.9	131.7	127.5	118.2	108.1	106.4
62.5°	5262.0	3155.9	501.6	190.9	136.8	122.5	120.7	117.4	103.8	85.3	83.6
65°	4888.7	2563.8	337.8	158.8	117.4	107.2	108.1	102.2	84.5	63.3	61.6
67.5°	4343.2	1874.7	216.2	130.1	98.0	89.5	90.4	87.0	71.8	54.0	51.6
70°	3648.2	1241.4	141.0	98.8	78.5	69.3	74.3	75.1	60.8	43.9	42.2
72.5°	2674.5	733.0	98.8	73.5	57.4	48.2	60.8	62.5	49.0	32.9	31.3
75°	1524.3	347.9	74.3	53.2	35.5	33.8	47.3	47.3	33.8	21.9	20.3
77.5°	640.1	145.2	52.4	34.6	20.3	19.4	32.1	29.5	16.9	10.1	10.1
80°	184.9	65.0	27.9	16.9	8.4	7.6	12.7	9.3	4.2	1.6	1.6
82.5°	72.7	28.7	11.0	6.8	3.4	3.4	1.6	0.0	0.0	0.0	0.0
85°	43.0	11.8	5.0	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	2.6	1.6	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	0.0

(END OF REPORT)