

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: P963950

Luminaire Tested: **NAV-SB3B-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10932.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

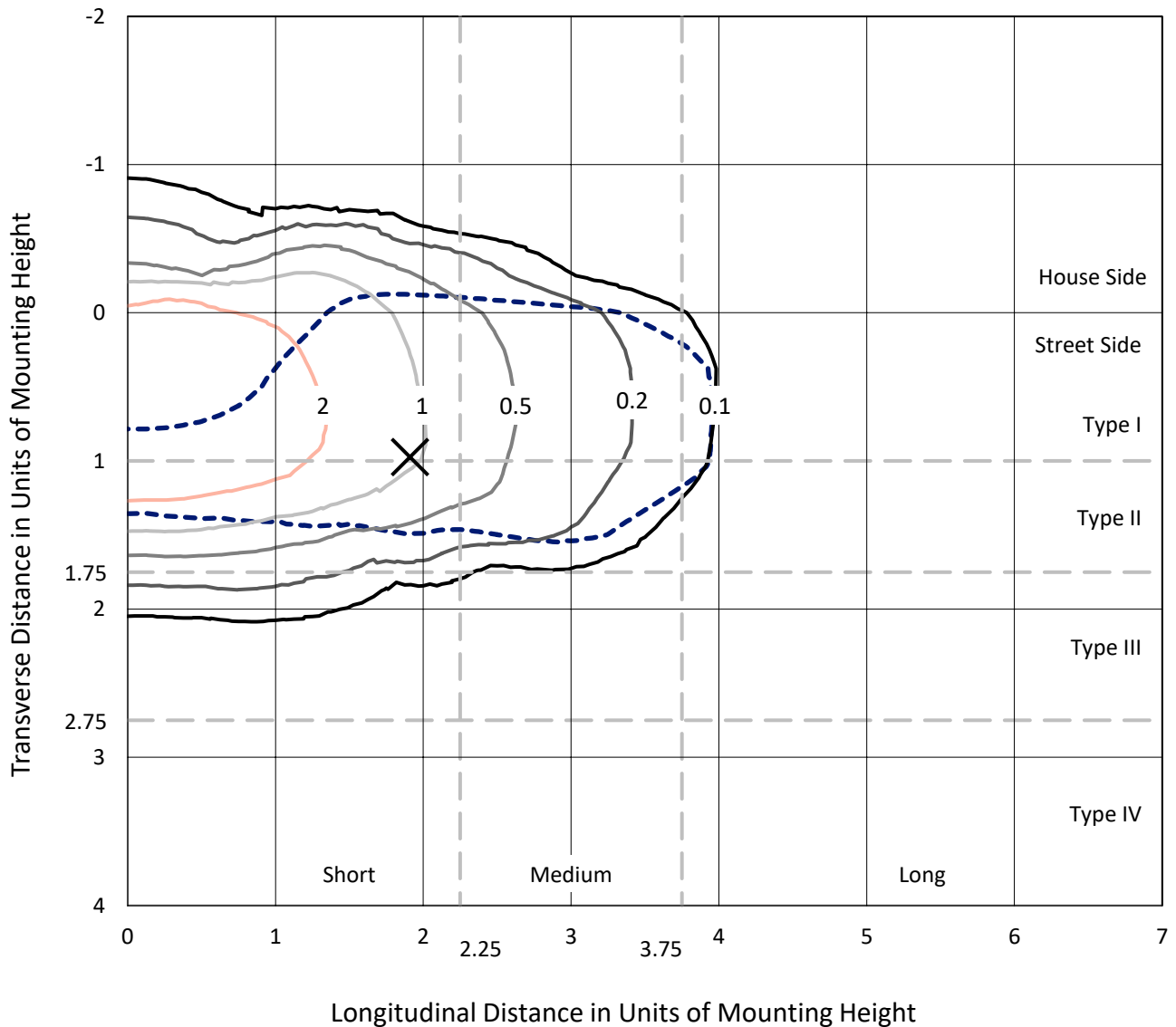
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

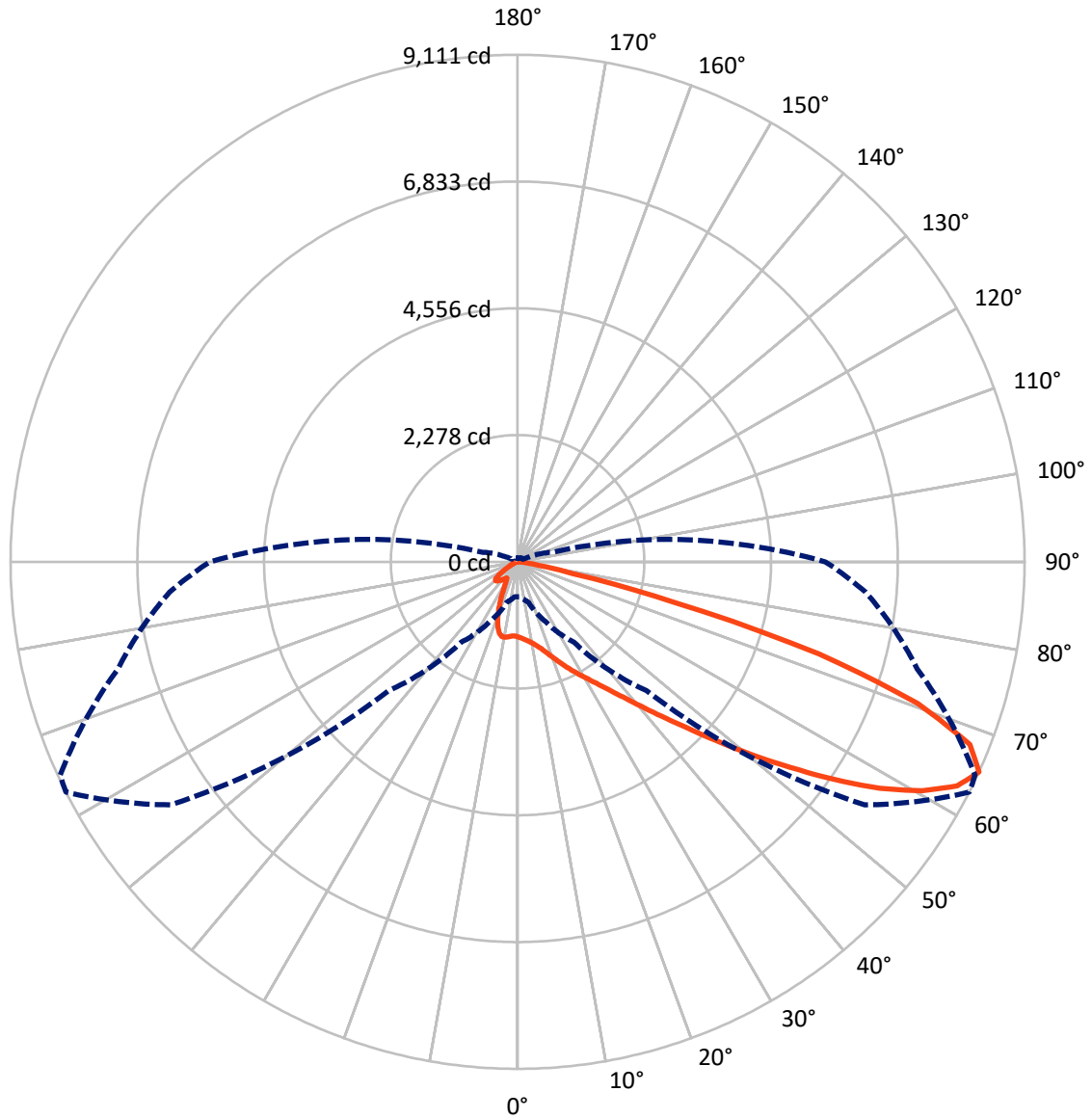
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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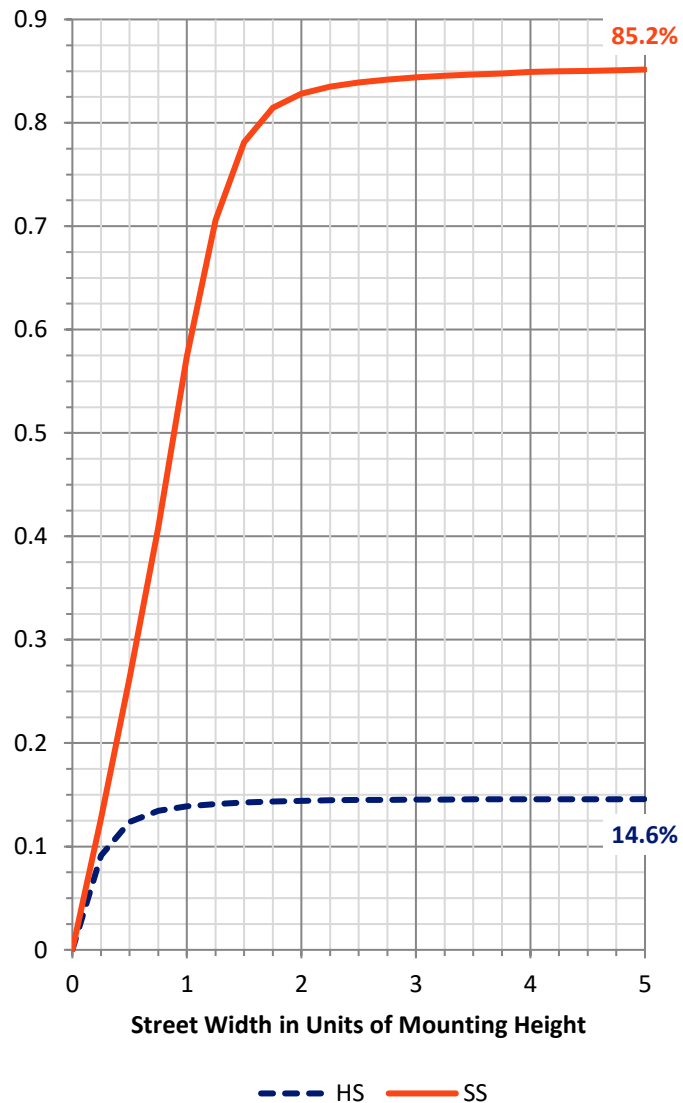
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.0	0.0	1607.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9325.6	0.0	9325.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	10932.7	0.0	10932.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.2
10°-20°	352.7	3.2
20°-30°	614.2	5.6
30°-40°	1107.0	10.1
40°-50°	2195.6	20.1
50°-60°	2990.8	27.4
60°-70°	2387.2	21.8
70°-80°	1080.3	9.9
80°-90°	77.6	0.7
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°	10932.7	100.0
0°-180°	10932.7	100.0

Coefficient of Utilization

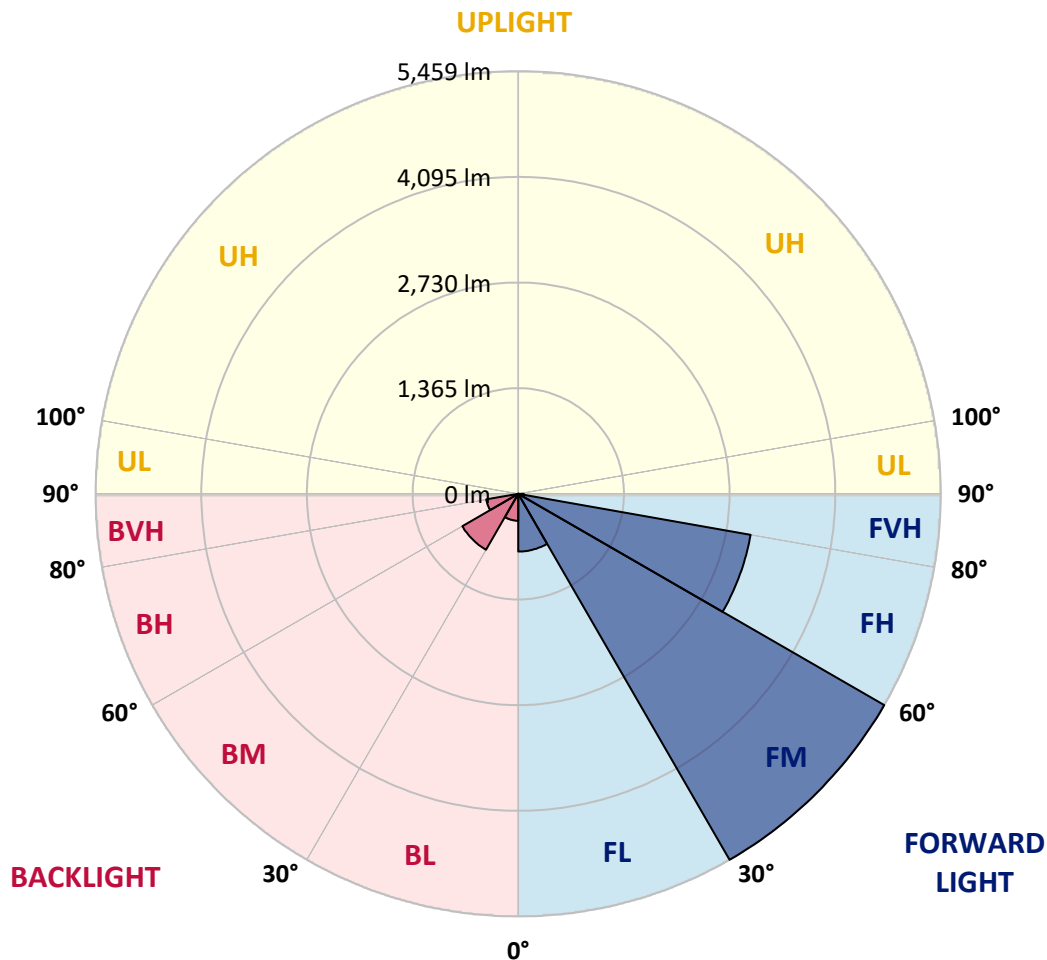


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.3	6.8			
FM (30°-60°)	5459.5	49.9			
FH (60°-80°)	3048.0	27.9			G2/5000
FVH (80°-90°)	71.9	0.7			G1/100
BL (0°-30°)	347.8	3.2	B1/500		
BM (30°-60°)	833.9	7.6	B1/1000		
BH (60°-80°)	419.5	3.8	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3
2.5°	1380.9	1377.1	1382.4	1380.2	1378.6	1375.7	1374.1	1372.6	1369.6	1367.4	1358.3
5°	1384.7	1382.4	1387.6	1392.2	1396.7	1401.2	1403.4	1406.5	1403.4	1397.4	1388.4
7.5°	1353.1	1351.6	1362.8	1376.4	1396.7	1414.0	1432.7	1443.3	1444.0	1441.8	1432.0
10°	1350.8	1347.1	1358.3	1374.8	1401.2	1432.0	1465.1	1487.7	1490.7	1500.5	1489.9
12.5°	1386.1	1382.4	1398.2	1416.2	1443.3	1475.7	1516.3	1547.9	1552.4	1565.9	1558.4
15°	1445.6	1440.3	1458.4	1481.6	1516.3	1553.1	1596.0	1624.5	1628.3	1644.9	1631.4
17.5°	1514.7	1509.5	1530.5	1555.3	1593.0	1643.4	1693.0	1724.6	1729.1	1739.6	1714.8
20°	1603.5	1596.7	1613.2	1635.9	1675.7	1735.8	1795.3	1840.4	1839.7	1839.7	1799.1
22.5°	1706.5	1696.1	1710.3	1728.4	1766.0	1839.0	1917.9	1971.3	1971.3	1950.3	1883.3
25°	1817.1	1806.6	1822.3	1839.0	1872.1	1954.8	2047.2	2113.4	2116.4	2080.3	1973.5
27.5°	1955.5	1942.0	1954.0	1973.5	1993.1	2077.4	2187.1	2263.9	2265.4	2209.7	2059.3
30°	2221.8	2183.4	2145.7	2124.7	2133.7	2217.3	2334.5	2419.5	2427.1	2350.3	2152.6
32.5°	2709.1	2701.6	2569.3	2396.2	2305.9	2367.6	2499.3	2601.6	2606.1	2507.6	2273.7
35°	3466.6	3457.4	3244.6	2915.2	2621.1	2569.3	2699.3	2820.4	2817.4	2706.1	2430.8
37.5°	4370.5	4362.3	4081.8	3641.0	3164.9	2873.8	2957.3	3084.4	3103.2	2957.3	2633.9
40°	5142.9	5112.1	4934.7	4509.7	3886.9	3379.2	3324.4	3408.6	3428.1	3255.2	2891.9
42.5°	5728.1	5701.8	5611.6	5346.0	4760.9	4126.9	3756.8	3789.1	3811.0	3603.4	3188.3
45°	6031.2	6025.2	6061.3	6036.4	5651.4	5044.4	4375.0	4240.4	4248.7	3989.2	3524.5
47.5°	6074.0	6071.1	6235.8	6469.0	6417.0	6079.4	5168.6	4803.0	4773.6	4424.7	3890.0
50°	5821.4	5815.3	6131.2	6568.2	6928.5	6948.8	6069.5	5437.0	5372.3	4875.2	4271.3
52.5°	5014.4	5012.9	5531.8	6259.1	7108.3	7709.9	6960.1	6133.5	6025.2	5352.0	4674.4
55°	3858.3	3886.2	4481.1	5340.8	6780.3	8076.2	7759.6	6906.7	6740.5	5831.9	5046.0
57.5°	2733.2	2773.8	3362.0	4127.6	5763.5	7859.6	8300.3	7681.4	7502.4	6310.2	5422.8
60°	1468.1	1504.2	2093.2	3006.9	4287.8	7051.8	8585.4	8353.8	8184.5	6764.5	5762.8
62.5°	874.7	886.7	1130.5	1941.2	2900.1	5387.4	8464.3	8865.9	8726.7	7145.9	6058.3
65°	628.0	630.3	752.9	1185.3	1760.7	3273.2	7615.1	9111.1	9068.3	7433.2	6277.2
67.5°	528.7	527.3	578.4	787.5	1199.7	1639.6	5836.5	8764.4	8946.4	7615.1	6401.2
70°	453.6	455.8	516.0	576.9	901.8	928.1	2901.7	7630.9	8019.1	7663.3	6393.7
72.5°	337.7	345.2	400.9	525.7	680.7	638.6	1001.8	5658.2	6359.9	7220.3	6062.1
75°	238.4	242.2	282.1	442.3	507.7	464.8	511.5	2924.9	3824.5	5535.6	4961.7
77.5°	183.5	190.2	213.6	309.1	500.2	326.5	312.8	1012.4	1555.3	3343.9	3401.8
80°	99.3	111.3	154.2	223.3	351.3	230.9	155.0	403.1	527.3	1563.6	1311.7
82.5°	51.1	57.2	107.5	160.9	200.1	201.6	76.7	167.7	217.4	482.9	179.8
85°	20.3	24.8	72.2	88.8	103.0	99.3	34.6	67.6	78.2	133.9	54.9
87.5°	4.5	7.5	26.3	20.3	19.6	21.0	8.3	15.8	15.1	15.8	9.7
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°	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3	1349.3
2.5°	1357.6	1354.5	1346.3	1337.2	1326.8	1320.7	1316.9	1316.2	1311.0	1307.2	1311.0
5°	1380.2	1377.1	1361.3	1342.5	1322.2	1306.5	1291.4	1277.9	1258.3	1254.5	1253.1
7.5°	1425.3	1417.0	1391.4	1365.8	1327.5	1281.6	1225.9	1162.0	1104.8	1087.5	1079.3
10°	1480.9	1469.6	1437.3	1392.2	1307.2	1182.3	1047.7	922.8	823.6	795.7	785.3
12.5°	1544.1	1534.3	1491.5	1407.9	1222.2	995.8	789.8	634.8	538.5	514.4	507.7
15°	1619.3	1605.0	1545.6	1383.9	1070.3	756.7	542.2	450.5	415.9	411.4	406.9
17.5°	1699.0	1675.7	1593.8	1297.4	865.7	537.7	418.9	392.6	377.6	373.1	370.7
20°	1772.0	1741.9	1622.3	1166.6	646.8	418.9	375.4	358.0	344.5	339.2	336.2
22.5°	1844.9	1802.1	1622.3	988.3	485.1	371.6	344.5	328.7	312.8	306.1	302.4
25°	1921.0	1863.8	1593.8	789.8	390.3	340.7	315.2	297.9	284.3	276.0	273.1
27.5°	1994.6	1915.6	1528.3	601.7	347.5	313.6	288.0	271.5	258.7	252.7	252.7
30°	2064.6	1966.8	1436.5	456.5	319.7	287.3	263.2	249.0	236.2	230.1	230.9
32.5°	2159.4	2031.4	1338.8	374.5	295.6	262.5	240.7	227.1	215.9	211.4	211.4
35°	2291.0	2127.0	1254.5	367.8	275.3	242.2	220.4	207.6	196.3	192.5	192.5
37.5°	2477.4	2281.1	1210.1	412.9	258.7	224.2	203.9	190.2	179.8	176.7	176.0
40°	2707.6	2490.2	1234.2	458.1	247.4	208.4	188.8	175.3	166.3	162.5	161.7
42.5°	2980.6	2748.2	1367.4	492.6	240.0	194.7	174.5	159.5	153.4	151.9	151.9
45°	3294.2	3031.7	1571.1	529.5	227.9	182.0	160.2	148.9	144.4	143.7	142.9
47.5°	3650.7	3343.1	1807.4	575.3	215.9	169.9	148.9	141.3	137.7	136.1	136.1
50°	4004.3	3656.8	2050.3	601.0	206.1	158.7	139.9	133.9	130.9	130.1	130.1
52.5°	4374.3	3979.5	2246.6	576.9	197.8	149.6	132.3	127.8	124.8	124.1	124.1
55°	4727.1	4240.4	2280.4	489.6	181.2	140.6	124.1	121.9	118.1	118.1	117.4
57.5°	5030.9	4371.3	2041.3	359.5	164.7	127.1	115.8	113.6	110.6	109.8	109.1
60°	5309.9	4333.7	1575.7	242.2	146.7	113.6	105.3	103.8	100.8	97.1	96.2
62.5°	5467.1	4168.3	1077.8	158.0	128.6	99.3	93.3	92.6	85.7	78.2	76.7
65°	5526.6	3828.3	672.4	115.1	107.5	85.0	80.5	78.9	69.2	60.9	60.2
67.5°	5474.6	3268.7	339.2	91.0	85.0	70.7	66.2	66.2	59.4	51.9	51.1
70°	5267.1	2450.4	142.9	73.0	65.4	54.1	54.1	57.2	50.4	42.1	41.4
72.5°	4816.6	1648.6	76.0	55.7	48.9	38.3	44.4	46.6	39.9	31.6	31.6
75°	3829.0	1005.6	52.7	41.4	30.9	27.1	33.8	35.4	27.1	21.0	20.3
77.5°	2618.9	577.6	35.4	26.3	19.6	15.8	23.3	21.8	14.2	9.7	10.6
80°	1149.9	240.7	20.3	12.0	7.5	6.0	8.3	6.0	4.5	3.0	3.0
82.5°	134.6	56.4	7.5	4.5	3.0	1.5	0.7	0.0	0.0	0.0	0.0
85°	27.8	6.8	3.8	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.5	0.7	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)