

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: P963425

Luminaire Tested: **NAV-SB3A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11291.4 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

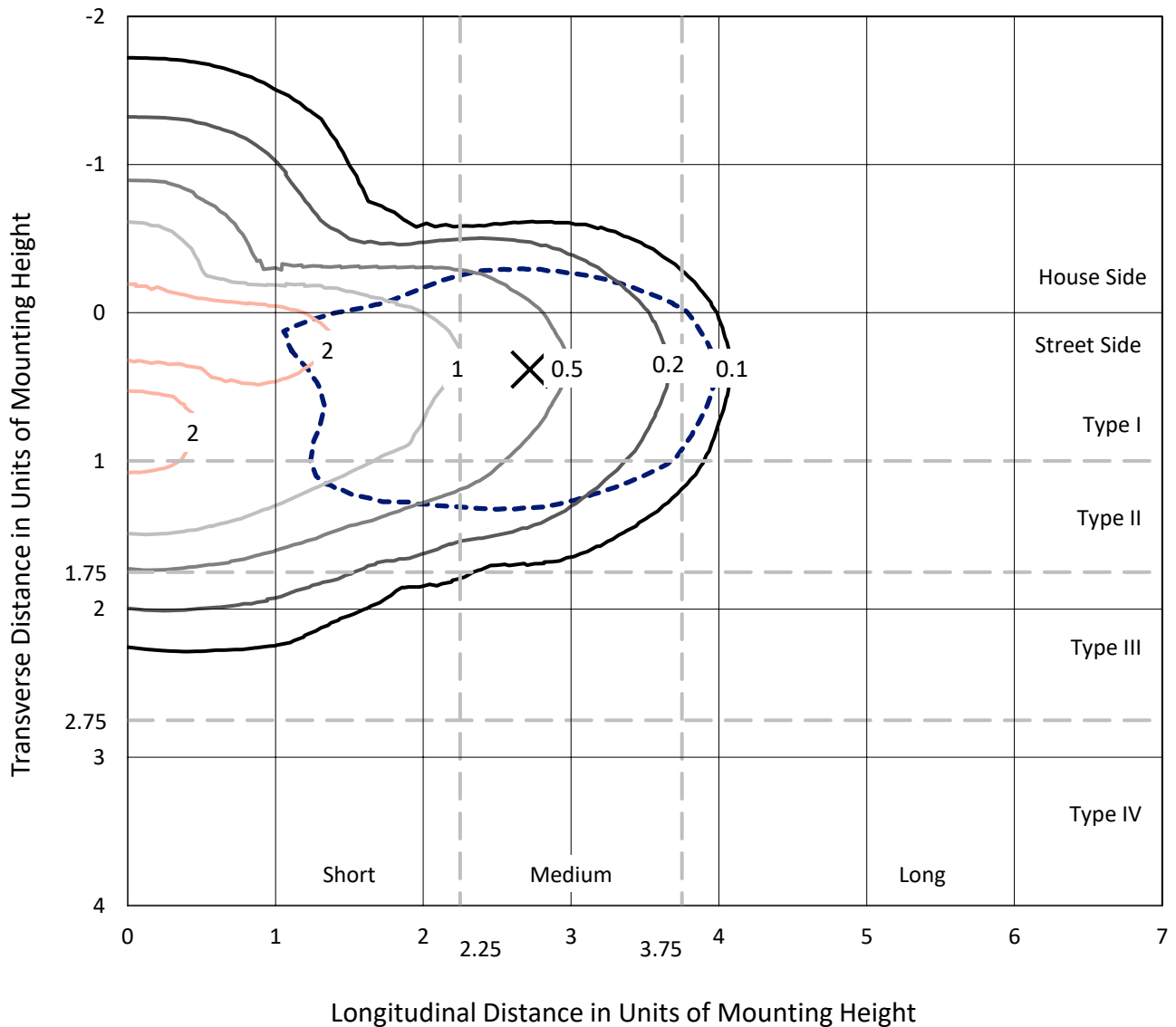
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

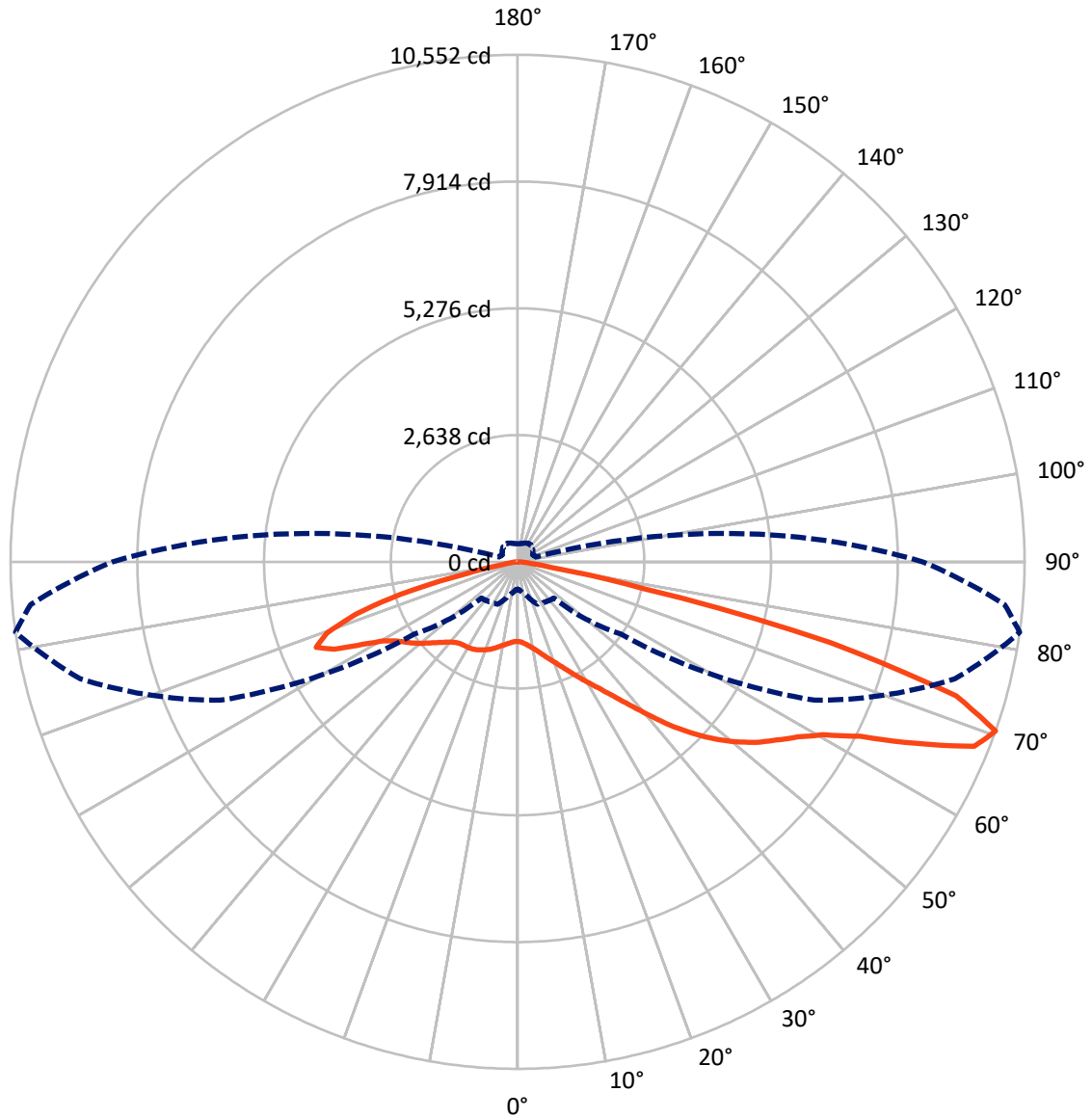
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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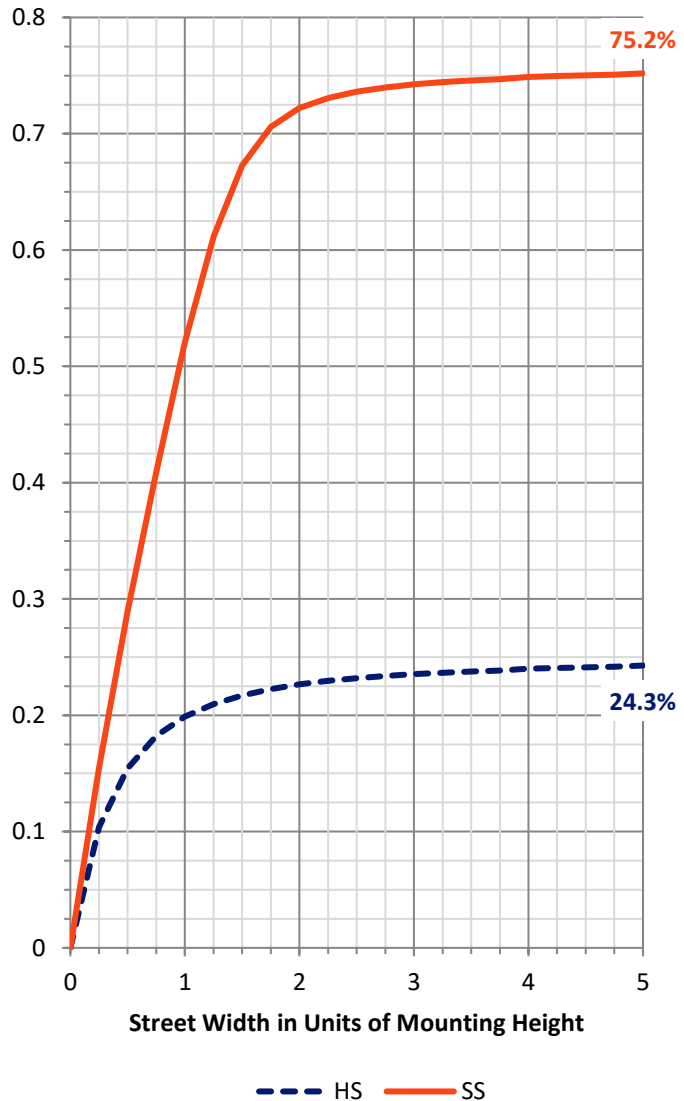
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.6	0.0	2783.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8507.8	0.0	8507.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	11291.4	0.0	11291.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.4
10°-20°	449.1	4.0
20°-30°	751.3	6.7
30°-40°	1173.7	10.4
40°-50°	1869.2	16.6
50°-60°	2601.2	23.0
60°-70°	2721.0	24.1
70°-80°	1422.1	12.6
80°-90°	147.7	1.3
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°	11291.4	100.0
0°-180°	11291.4	100.0

Coefficient of Utilization

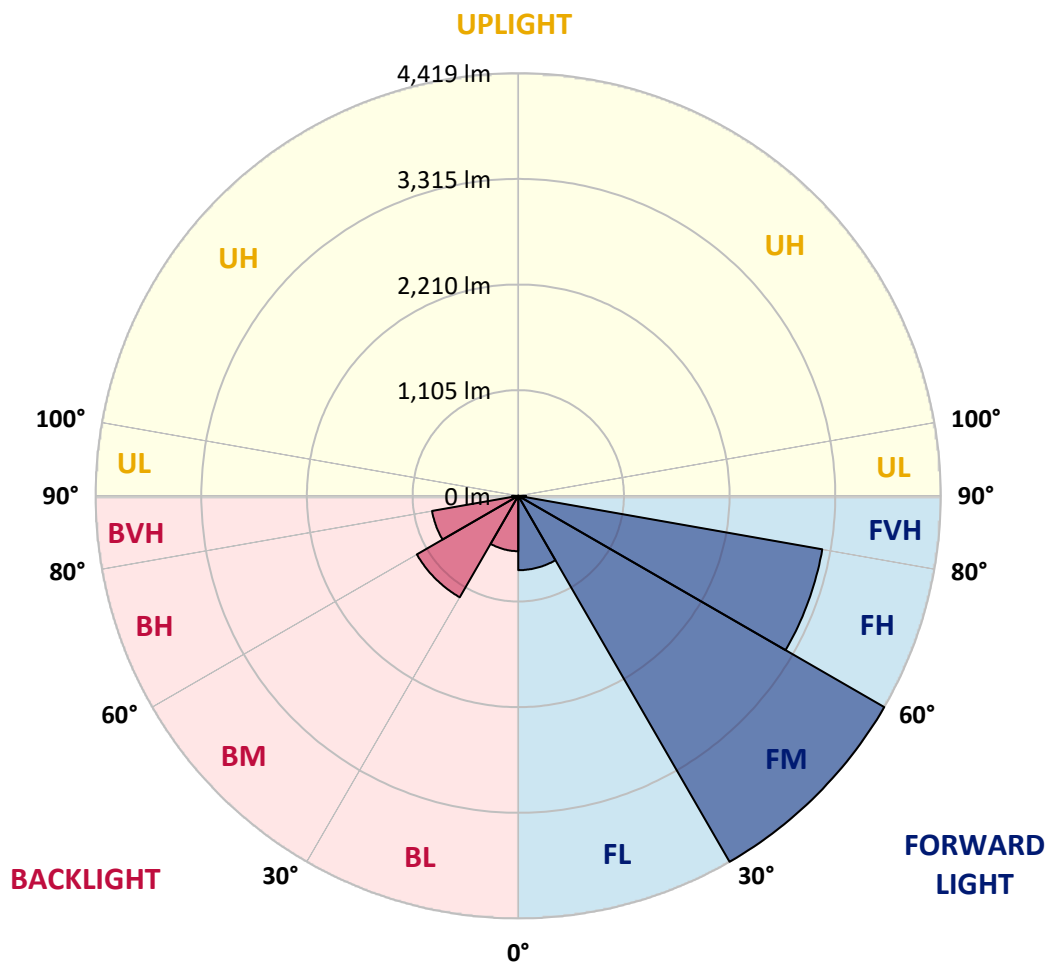


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.5	6.9			
FM (30°-60°)	4419.3	39.1			
FH (60°-80°)	3228.2	28.6			G2/5000
FVH (80°-90°)	82.7	0.7			G1/100
BL (0°-30°)	579.1	5.1	B2/1000		
BM (30°-60°)	1224.7	10.8	B2/2500		
BH (60°-80°)	914.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	65.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5
2.5°	1695.0	1704.6	1701.6	1698.6	1698.6	1694.4	1693.8	1687.8	1683.0	1675.3	1673.4
5°	1716.6	1726.7	1725.6	1727.9	1735.7	1737.6	1739.3	1735.7	1726.2	1716.6	1712.4
7.5°	1697.4	1708.8	1712.4	1726.7	1750.7	1772.3	1788.5	1795.1	1786.1	1772.3	1765.7
10°	1632.7	1645.2	1657.8	1692.0	1734.5	1785.4	1828.6	1854.4	1852.6	1839.4	1828.0
12.5°	1501.5	1514.6	1541.6	1608.1	1686.0	1775.9	1856.2	1910.1	1928.6	1919.1	1899.3
15°	1396.7	1408.0	1428.3	1496.7	1598.0	1734.5	1866.3	1971.2	2018.5	2013.2	1989.2
17.5°	1393.6	1398.4	1411.0	1443.4	1521.2	1669.8	1855.6	2031.1	2121.6	2121.0	2091.0
20°	1446.4	1448.1	1455.3	1462.0	1506.2	1620.7	1828.0	2080.9	2237.3	2237.3	2204.9
22.5°	1519.5	1518.2	1525.4	1519.5	1541.0	1616.5	1810.7	2124.6	2366.0	2375.6	2335.0
25°	1629.1	1623.1	1621.3	1607.5	1611.7	1655.5	1829.8	2174.3	2518.8	2538.6	2487.7
27.5°	1775.3	1765.7	1759.1	1727.3	1716.6	1735.7	1888.6	2234.2	2689.0	2723.1	2658.4
30°	1965.8	1948.4	1938.9	1883.7	1844.8	1847.8	1977.2	2313.9	2866.9	2922.1	2840.0
32.5°	2225.9	2198.9	2173.1	2082.7	2011.4	1988.0	2091.6	2424.1	3059.8	3148.0	3042.5
35°	2517.1	2495.5	2467.9	2328.3	2218.7	2164.7	2246.2	2578.2	3285.7	3425.3	3288.2
37.5°	2797.4	2778.9	2792.1	2603.9	2462.6	2384.0	2448.7	2784.8	3564.3	3770.5	3596.1
40°	3087.4	3073.1	3074.9	2895.1	2730.3	2642.2	2694.4	3044.2	3883.7	4180.9	3966.4
42.5°	3402.6	3391.8	3355.8	3196.5	3011.3	2929.2	2977.2	3343.9	4226.4	4648.3	4372.6
45°	3755.5	3748.9	3715.3	3532.6	3320.5	3228.2	3292.9	3674.6	4571.0	5088.0	4780.6
47.5°	4060.4	4065.9	4061.7	3907.7	3687.7	3552.3	3629.6	4019.7	4891.5	5501.4	5171.8
50°	4207.2	4235.4	4276.7	4228.8	4092.2	3954.4	3969.4	4352.9	5197.1	5889.0	5547.0
52.5°	4130.5	4183.8	4296.5	4373.3	4426.0	4397.1	4357.1	4683.5	5484.7	6239.0	5901.6
55°	3844.8	3919.7	4106.6	4291.8	4560.7	4769.8	4822.6	5050.3	5765.0	6547.0	6237.2
57.5°	3324.1	3445.7	3613.5	3988.0	4440.9	4950.2	5365.5	5559.0	6062.3	6875.9	6588.3
60°	2431.4	2594.4	2802.9	3360.1	4021.5	4853.8	5827.3	6340.2	6484.7	7301.9	7045.4
62.5°	1555.9	1656.7	1848.4	2373.3	3133.5	4359.4	5968.8	7316.9	7200.6	8000.5	7730.9
65°	1065.3	1130.0	1305.5	1600.3	2025.7	3245.0	5590.1	8049.0	8337.9	9107.7	8902.8
67.5°	774.1	823.3	973.0	1231.2	1319.9	1920.2	4337.9	8015.5	9443.2	10248.6	9929.8
70°	564.4	599.1	725.0	973.0	1015.6	1068.3	2627.9	6813.6	9419.2	10551.7	10170.0
72.5°	418.2	442.2	526.6	754.9	822.0	721.4	1300.7	4952.0	8093.9	9543.9	9237.7
75°	302.6	320.5	382.8	577.6	657.8	549.4	648.9	2893.9	5645.8	6713.5	6767.5
77.5°	231.2	245.1	285.8	423.0	526.6	412.3	402.6	1331.3	2677.0	2690.2	2841.2
80°	185.7	194.7	216.9	297.8	403.8	308.5	262.4	537.4	846.0	716.0	751.3
82.5°	136.6	151.6	183.4	209.1	288.7	212.7	160.0	271.4	321.7	276.9	279.2
85°	77.9	88.0	110.8	149.8	184.5	130.0	91.6	120.4	149.8	122.8	109.7
87.5°	27.6	36.0	38.9	58.7	80.3	53.9	35.4	34.7	49.1	36.6	30.5
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°	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5	1655.5
2.5°	1667.5	1664.5	1652.5	1636.3	1619.5	1603.3	1598.0	1586.6	1578.8	1574.6	1579.3
5°	1701.0	1691.5	1663.3	1627.3	1589.6	1548.8	1520.1	1493.7	1474.6	1456.5	1463.7
7.5°	1749.0	1732.1	1683.7	1620.7	1553.6	1485.9	1435.6	1397.2	1371.4	1354.6	1358.3
10°	1804.6	1778.9	1704.6	1610.5	1506.9	1409.8	1350.5	1317.5	1301.3	1292.4	1294.8
12.5°	1868.8	1832.2	1726.2	1587.1	1435.6	1324.7	1284.0	1274.4	1275.0	1275.6	1276.8
15°	1947.8	1897.0	1743.5	1536.3	1342.7	1259.4	1252.2	1267.8	1284.0	1291.8	1291.2
17.5°	2037.1	1965.2	1746.5	1452.3	1251.6	1217.5	1240.2	1273.8	1298.4	1309.1	1311.6
20°	2133.0	2034.7	1725.0	1333.7	1176.7	1183.4	1224.1	1267.2	1294.2	1308.0	1311.6
22.5°	2242.6	2109.0	1673.4	1209.1	1115.6	1146.2	1194.1	1236.0	1264.2	1278.0	1281.6
25°	2367.9	2192.3	1592.5	1104.2	1062.9	1104.2	1152.2	1186.9	1209.7	1222.3	1225.9
27.5°	2506.8	2279.2	1484.7	1021.0	1016.8	1061.1	1100.6	1127.6	1139.6	1149.1	1152.8
30°	2646.4	2358.2	1354.1	958.1	976.6	1018.5	1046.7	1058.7	1062.3	1064.1	1068.3
32.5°	2797.4	2426.6	1216.9	905.9	938.3	977.2	994.0	999.4	982.6	971.2	974.8
35°	2980.2	2499.7	1082.7	864.6	900.6	934.1	939.5	934.7	914.9	891.5	892.8
37.5°	3206.1	2590.7	975.4	835.2	865.2	887.3	880.8	879.6	881.4	853.8	855.6
40°	3482.8	2709.4	897.0	812.4	836.4	841.2	822.7	832.8	841.8	799.9	801.0
42.5°	3790.2	2852.6	847.2	796.8	812.4	801.0	772.3	783.7	782.5	727.3	726.7
45°	4103.6	3008.4	829.8	785.5	790.3	767.5	735.7	738.7	713.6	663.9	665.6
47.5°	4415.2	3175.6	840.6	775.9	762.7	737.0	712.4	699.3	662.0	624.9	624.9
50°	4720.7	3351.0	880.2	756.8	725.0	710.0	692.0	668.6	629.1	597.4	594.9
52.5°	5004.2	3527.8	924.4	725.0	677.6	686.6	675.3	648.3	609.4	577.0	577.6
55°	5272.5	3704.6	941.9	681.2	633.3	666.2	659.7	610.0	563.2	536.8	534.4
57.5°	5564.9	3917.2	922.7	625.6	597.4	642.9	617.8	562.6	535.7	515.9	514.0
60°	5970.0	4251.0	881.4	556.6	563.2	608.1	565.0	542.2	512.9	490.7	489.5
62.5°	6642.8	4873.5	814.9	488.3	523.1	556.6	539.9	517.1	487.1	465.6	465.6
65°	7637.4	5738.7	689.6	435.0	478.2	506.2	512.9	490.2	459.0	436.1	437.4
67.5°	8476.2	6281.5	521.8	390.6	432.0	465.6	484.1	462.0	429.0	406.8	407.4
70°	8430.1	5887.3	398.4	346.9	391.2	425.4	449.4	432.0	396.7	375.7	377.5
72.5°	7487.6	4925.0	322.4	302.6	349.9	383.5	412.3	399.0	363.1	342.8	342.8
75°	5500.9	3496.1	257.7	257.7	298.4	339.7	371.5	363.1	330.2	315.8	311.6
77.5°	2318.8	1466.8	201.9	213.9	248.0	291.8	331.4	334.4	305.6	323.6	293.6
80°	616.5	404.5	154.0	168.4	194.7	240.9	288.2	287.0	255.8	239.0	222.3
82.5°	234.8	159.4	109.7	118.6	140.8	184.5	228.3	235.4	204.3	176.7	176.7
85°	90.5	68.3	67.8	71.3	82.1	122.2	172.5	178.6	154.0	130.6	134.8
87.5°	23.4	20.4	25.2	24.0	37.7	65.3	98.8	102.5	94.1	54.5	77.9
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)