

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: P961875

Luminaire Tested: **NAV-SB2B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961875
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-SB2B-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10607.7 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

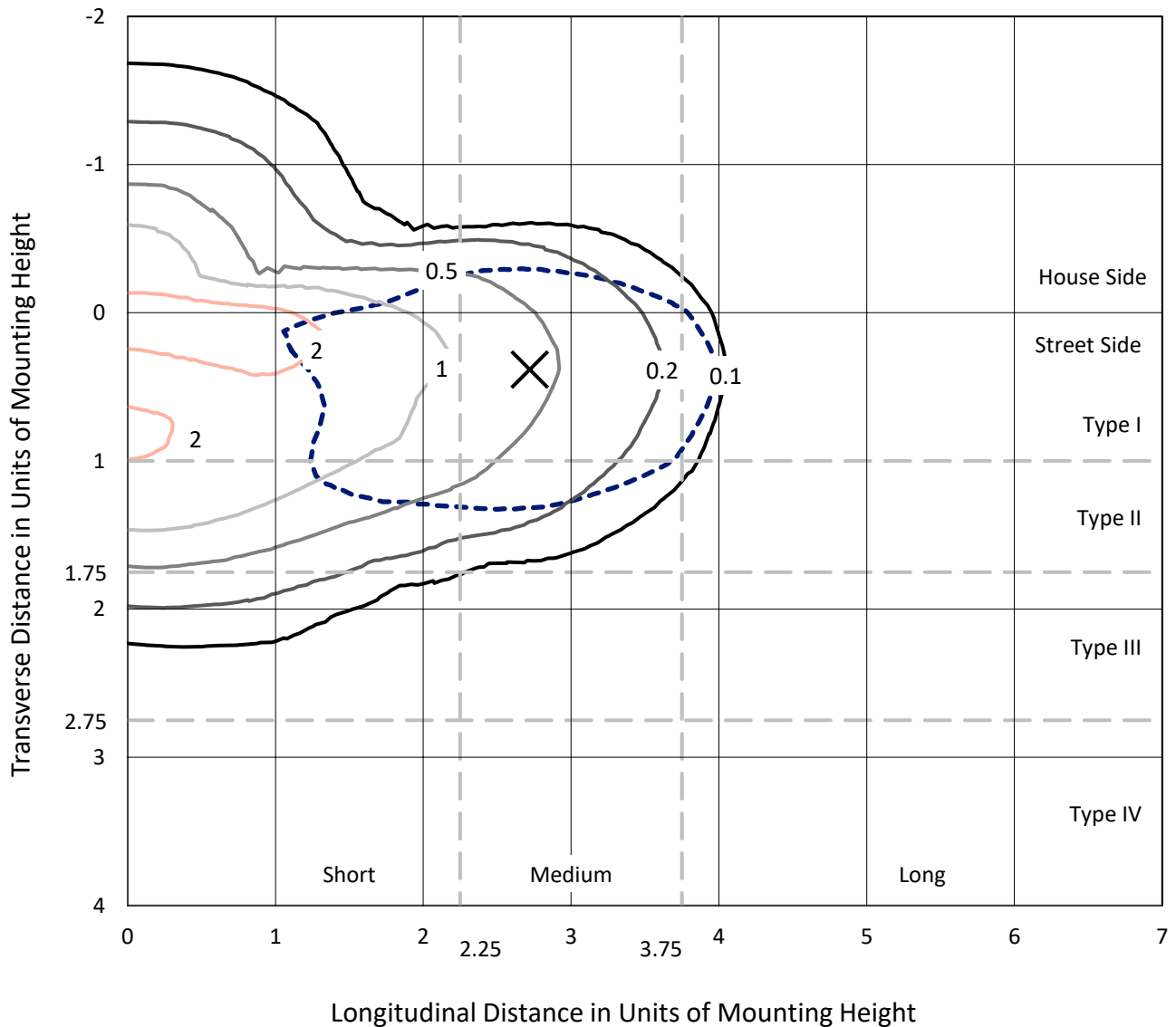
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

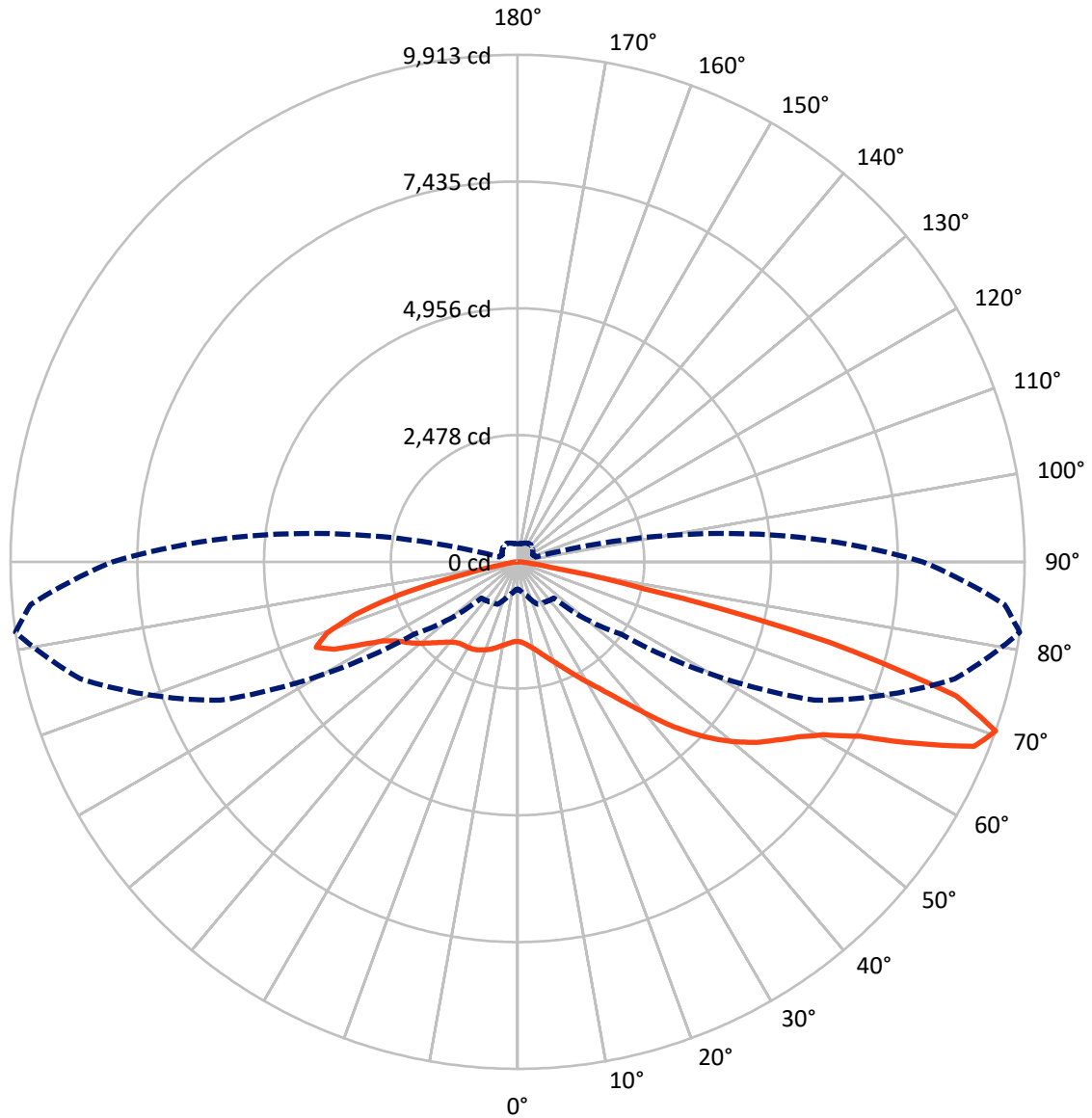
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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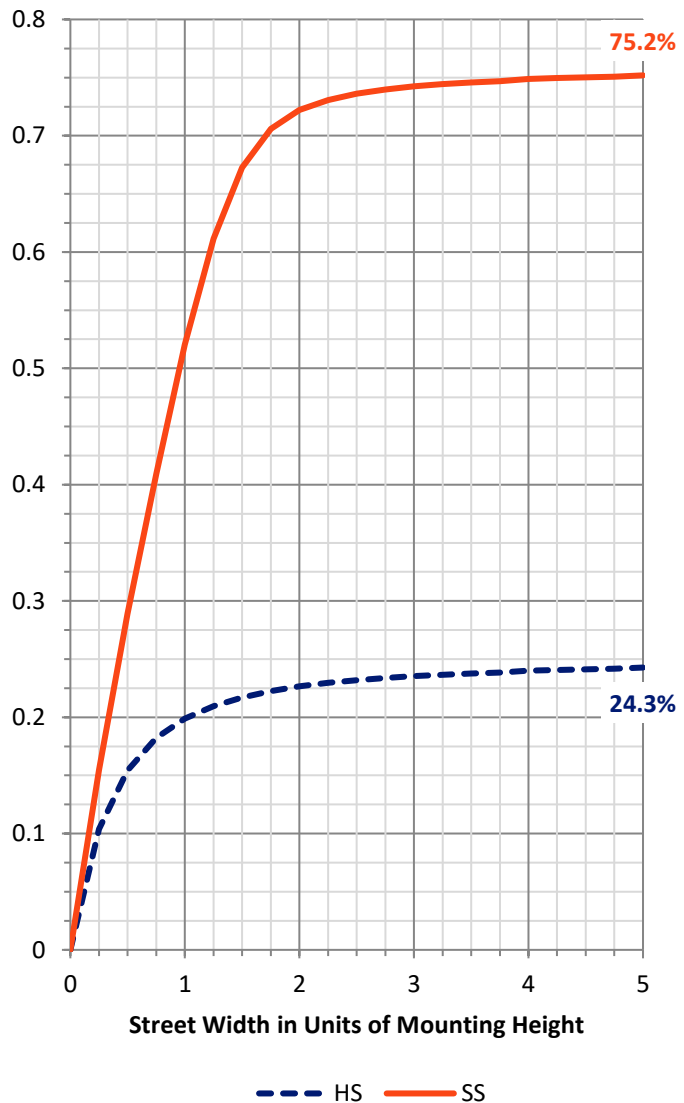
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.1	0.0	2615.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7992.7	0.0	7992.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	10607.7	0.0	10607.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.4
10°-20°	421.9	4.0
20°-30°	705.8	6.7
30°-40°	1102.6	10.4
40°-50°	1756.0	16.6
50°-60°	2443.7	23.0
60°-70°	2556.2	24.1
70°-80°	1336.0	12.6
80°-90°	138.7	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°	10607.7	100.0
0°-180°	10607.7	100.0

Coefficient of Utilization

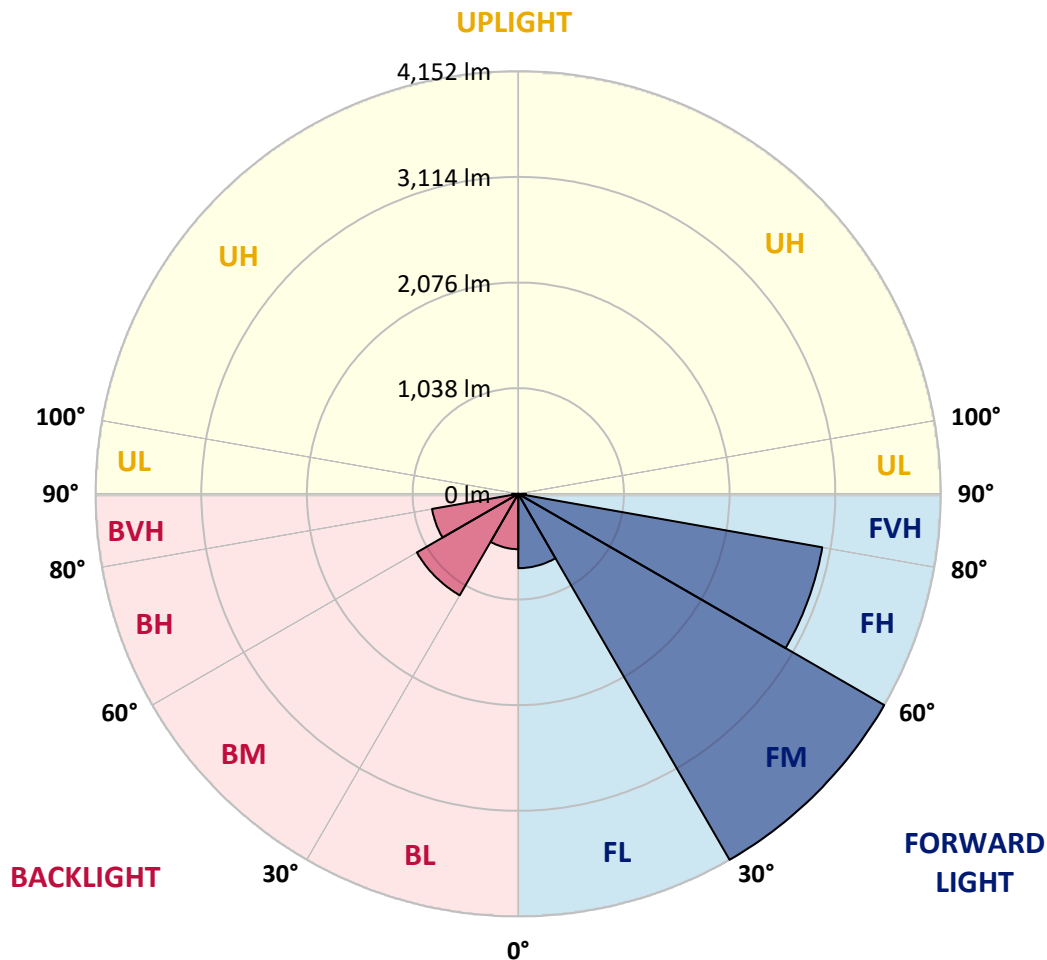


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.5	6.9			
FM (30°-60°)	4151.8	39.1			
FH (60°-80°)	3032.8	28.6			G2/5000
FVH (80°-90°)	77.7	0.7			G1/100
BL (0°-30°)	544.0	5.1	B2/1000		
BM (30°-60°)	1150.5	10.8	B2/2500		
BH (60°-80°)	859.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	61.1	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°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1592.3	1601.4	1598.6	1595.7	1595.7	1591.8	1591.2	1585.6	1581.2	1573.8	1572.1
5°	1612.6	1622.2	1621.0	1623.3	1630.7	1632.3	1634.1	1630.7	1621.7	1612.6	1608.7
7.5°	1594.6	1605.4	1608.7	1622.2	1644.7	1665.0	1680.2	1686.3	1677.9	1665.0	1658.8
10°	1533.8	1545.7	1557.5	1589.6	1629.5	1677.4	1717.9	1742.1	1740.4	1728.0	1717.3
12.5°	1410.6	1422.9	1448.3	1510.7	1583.9	1668.4	1743.8	1794.5	1811.9	1802.9	1784.3
15°	1312.1	1322.8	1341.9	1406.1	1501.2	1629.5	1753.4	1851.9	1896.4	1891.2	1868.8
17.5°	1309.2	1313.7	1325.5	1356.0	1429.2	1568.8	1743.2	1908.1	1993.1	1992.6	1964.4
20°	1358.7	1360.5	1367.2	1373.4	1415.1	1522.5	1717.3	1954.9	2101.8	2101.8	2071.4
22.5°	1427.4	1426.3	1433.1	1427.4	1447.7	1518.6	1701.0	1996.0	2222.8	2231.8	2193.5
25°	1530.4	1524.8	1523.1	1510.2	1514.1	1555.2	1719.0	2042.7	2366.3	2384.9	2337.1
27.5°	1667.8	1658.8	1652.6	1622.8	1612.6	1630.7	1774.2	2099.0	2526.2	2558.3	2497.5
30°	1846.8	1830.4	1821.4	1769.7	1733.1	1735.9	1857.5	2173.8	2693.4	2745.2	2668.1
32.5°	2091.1	2065.8	2041.6	1956.5	1889.6	1867.7	1965.0	2277.3	2874.6	2957.3	2858.3
35°	2364.7	2344.4	2318.4	2187.4	2084.3	2033.7	2110.3	2422.1	3086.8	3218.0	3089.0
37.5°	2628.1	2610.6	2623.0	2446.3	2313.4	2239.7	2300.5	2616.2	3348.6	3542.2	3378.4
40°	2900.5	2887.0	2888.7	2719.8	2565.1	2482.2	2531.2	2860.0	3648.6	3927.7	3726.3
42.5°	3196.6	3186.4	3152.7	3002.9	2829.0	2751.9	2796.9	3141.4	3970.5	4366.8	4107.9
45°	3528.2	3521.9	3490.4	3318.7	3119.5	3032.8	3093.6	3452.1	4294.1	4780.0	4491.1
47.5°	3814.6	3819.7	3815.8	3671.0	3464.5	3337.3	3409.9	3776.3	4595.3	5168.4	4858.7
50°	3952.5	3978.9	4017.8	3972.8	3844.5	3715.0	3729.1	4089.3	4882.4	5532.5	5211.1
52.5°	3880.4	3930.6	4036.3	4108.4	4157.9	4131.0	4093.2	4400.0	5152.6	5861.3	5544.3
55°	3612.0	3682.3	3858.0	4031.8	4284.6	4481.1	4530.6	4744.5	5416.0	6150.5	5859.5
57.5°	3122.9	3237.1	3394.7	3746.5	4172.1	4650.5	5040.5	5222.4	5695.2	6459.5	6189.4
60°	2284.1	2437.2	2633.1	3156.6	3778.0	4559.8	5474.5	5956.4	6092.0	6859.8	6618.8
62.5°	1461.8	1556.4	1736.5	2229.6	2943.8	4095.5	5607.4	6873.9	6764.6	7516.1	7262.7
65°	1000.8	1061.6	1226.5	1503.5	1903.1	3048.6	5251.6	7561.6	7832.9	8556.3	8363.8
67.5°	727.2	773.4	914.1	1156.7	1240.0	1804.0	4075.2	7530.2	8871.5	9628.0	9328.5
70°	530.2	562.8	681.1	914.1	954.1	1003.6	2468.8	6401.0	8848.9	9912.8	9554.2
72.5°	392.9	415.4	494.8	709.2	772.2	677.7	1222.0	4652.2	7603.9	8966.1	8678.4
75°	284.2	301.1	359.7	542.6	618.1	516.2	609.6	2718.7	5304.0	6307.0	6357.7
77.5°	217.3	230.2	268.4	397.4	494.8	387.2	378.2	1250.7	2514.9	2527.3	2669.2
80°	174.5	183.0	203.8	279.7	379.4	289.9	246.5	504.9	794.8	672.6	705.8
82.5°	128.3	142.4	172.2	196.5	271.3	199.8	150.3	255.0	302.3	260.0	262.3
85°	73.2	82.7	104.1	140.7	173.3	122.2	86.1	113.2	140.7	115.4	103.0
87.5°	25.9	33.7	36.6	55.1	75.4	50.6	33.2	32.7	46.1	34.3	28.7
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°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1566.5	1563.6	1552.4	1537.2	1521.4	1506.2	1501.2	1490.5	1483.2	1479.3	1483.8
5°	1598.0	1589.0	1562.5	1528.8	1493.3	1455.0	1428.0	1403.2	1385.3	1368.4	1375.1
7.5°	1643.1	1627.3	1581.7	1522.5	1459.5	1395.9	1348.7	1312.6	1288.4	1272.6	1276.0
10°	1695.4	1671.2	1601.4	1513.0	1415.6	1324.4	1268.7	1237.8	1222.5	1214.1	1216.4
12.5°	1755.6	1721.3	1621.7	1491.1	1348.7	1244.6	1206.2	1197.2	1197.8	1198.3	1199.5
15°	1829.9	1782.1	1637.9	1443.2	1261.4	1183.2	1176.4	1191.0	1206.2	1213.6	1213.0
17.5°	1913.8	1846.2	1640.8	1364.4	1175.9	1143.8	1165.1	1196.7	1219.8	1229.9	1232.2
20°	2003.9	1911.5	1620.5	1253.0	1105.5	1111.7	1149.9	1190.4	1215.9	1228.8	1232.2
22.5°	2106.9	1981.3	1572.1	1135.9	1048.1	1076.8	1121.8	1161.2	1187.7	1200.6	1204.0
25°	2224.5	2059.5	1496.1	1037.4	998.6	1037.4	1082.4	1115.1	1136.4	1148.3	1151.7
27.5°	2355.0	2141.2	1394.8	959.1	955.2	996.8	1034.0	1059.3	1070.6	1079.6	1083.0
30°	2486.2	2215.4	1272.1	900.1	917.5	956.8	983.4	994.6	997.9	999.7	1003.6
32.5°	2628.1	2279.6	1143.2	851.1	881.5	918.1	933.8	938.9	923.1	912.5	915.8
35°	2799.8	2348.3	1017.1	812.2	846.0	877.5	882.6	878.1	859.5	837.5	838.7
37.5°	3012.0	2433.9	916.4	784.6	812.8	833.6	827.4	826.3	828.0	802.1	803.8
40°	3272.0	2545.3	842.7	763.2	785.8	790.3	772.8	782.4	790.9	751.4	752.6
42.5°	3560.7	2679.9	795.9	748.7	763.2	752.6	725.6	736.3	735.1	683.4	682.8
45°	3855.1	2826.2	779.6	737.9	742.4	721.1	691.3	694.0	670.3	623.7	625.4
47.5°	4147.9	2983.3	789.8	728.9	716.6	692.4	669.2	656.9	622.0	587.1	587.1
50°	4434.9	3148.2	826.9	710.9	681.1	667.0	650.2	628.1	591.0	561.2	558.9
52.5°	4701.2	3314.2	868.5	681.1	636.6	645.0	634.4	609.1	572.5	542.0	542.6
55°	4953.3	3480.3	884.9	640.0	594.9	626.0	619.7	573.0	529.1	504.3	502.0
57.5°	5228.0	3680.1	866.8	587.6	561.2	603.9	580.4	528.5	503.2	484.6	483.0
60°	5608.5	3993.6	828.0	523.0	529.1	571.3	530.7	509.4	481.9	461.0	459.9
62.5°	6240.6	4578.5	765.5	458.8	491.4	523.0	507.2	485.7	457.7	437.4	437.4
65°	7175.0	5391.2	647.9	408.7	449.2	475.6	481.9	460.4	431.1	409.8	410.9
67.5°	7963.0	5901.2	490.3	367.0	405.8	437.4	454.8	434.0	403.0	382.2	382.7
70°	7919.7	5530.8	374.3	326.0	367.6	399.6	422.2	405.8	372.6	352.9	354.6
72.5°	7034.3	4626.8	302.8	284.2	328.7	360.3	387.2	374.8	341.1	322.0	322.0
75°	5167.7	3284.4	242.0	242.0	280.3	319.2	349.0	341.1	310.2	296.6	292.7
77.5°	2178.3	1377.9	189.7	200.9	233.0	274.1	311.3	314.1	287.1	303.9	275.8
80°	579.2	380.0	144.6	158.2	183.0	226.3	270.7	269.6	240.4	224.6	208.8
82.5°	220.7	149.8	103.0	111.4	132.2	173.3	214.4	221.2	192.0	166.0	166.0
85°	85.0	64.2	63.7	66.9	77.1	114.8	162.2	167.7	144.6	122.7	126.7
87.5°	21.9	19.2	23.7	22.5	35.5	61.4	92.9	96.2	88.4	51.2	73.2
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)