

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: P960325

Luminaire Tested: **NAV-SB1C-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960325
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-SB1C-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7608.6 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

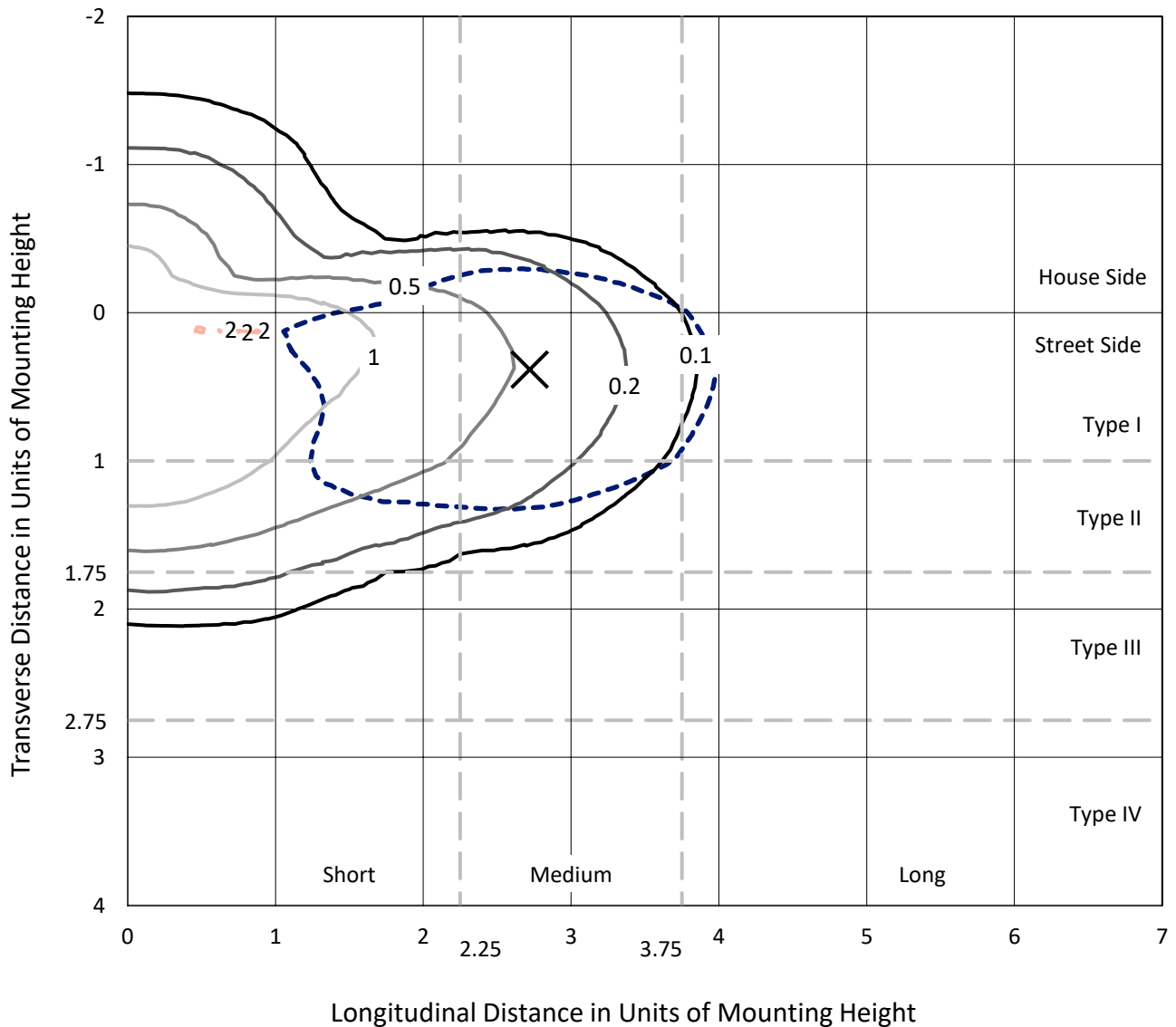
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

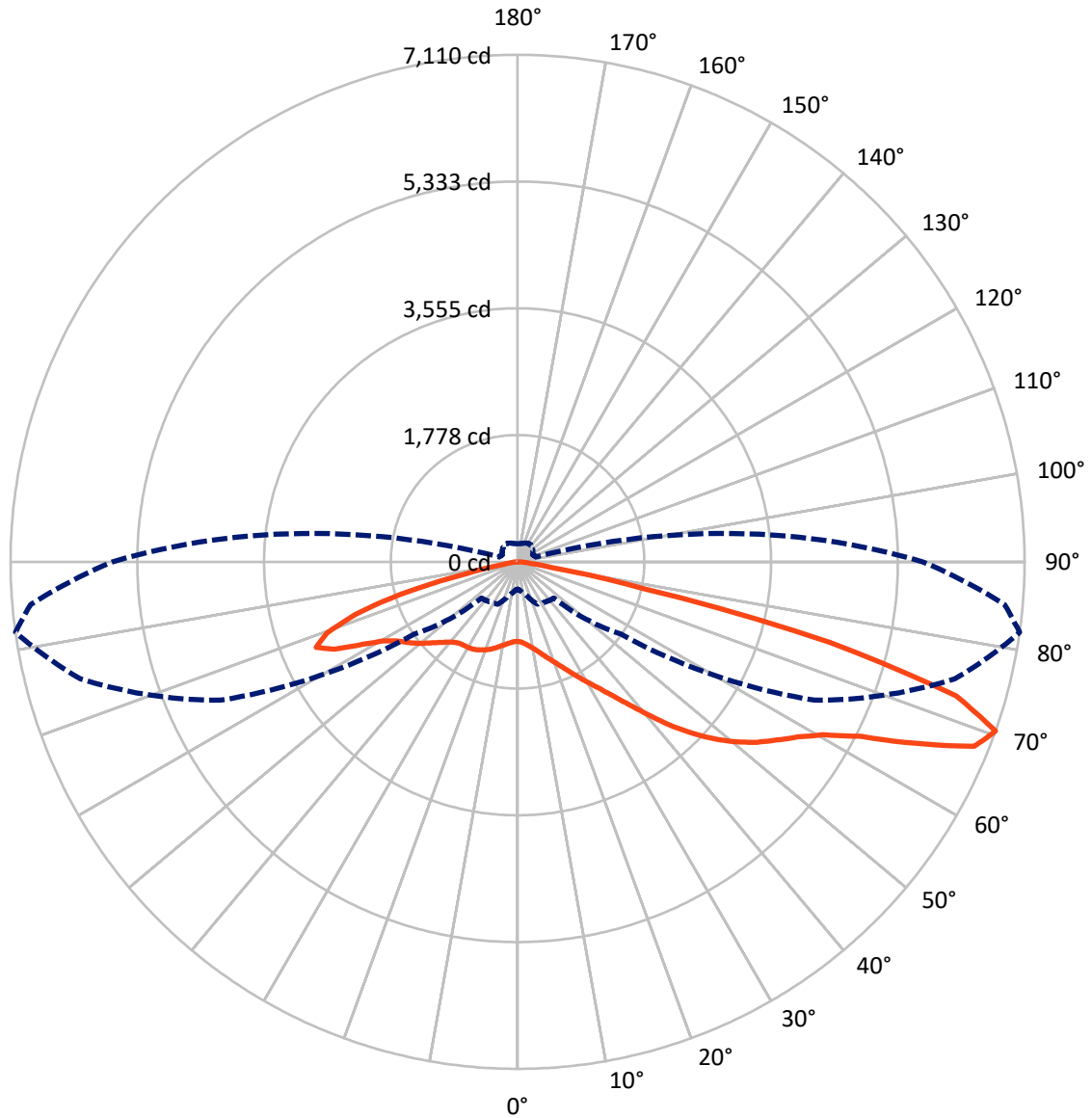
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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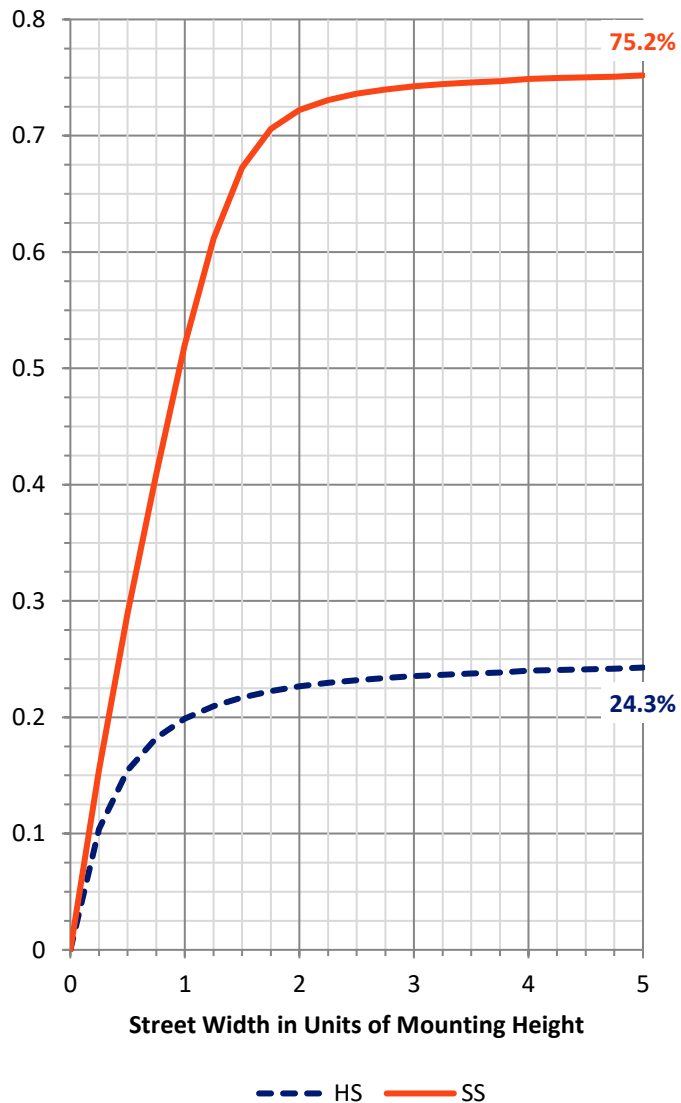
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.7	0.0	1875.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5732.9	0.0	5732.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	7608.6	0.0	7608.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.4
10°-20°	302.6	4.0
20°-30°	506.2	6.7
30°-40°	790.9	10.4
40°-50°	1259.5	16.6
50°-60°	1752.8	23.0
60°-70°	1833.5	24.1
70°-80°	958.3	12.6
80°-90°	99.5	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°	7608.6	100.0
0°-180°	7608.6	100.0

Coefficient of Utilization

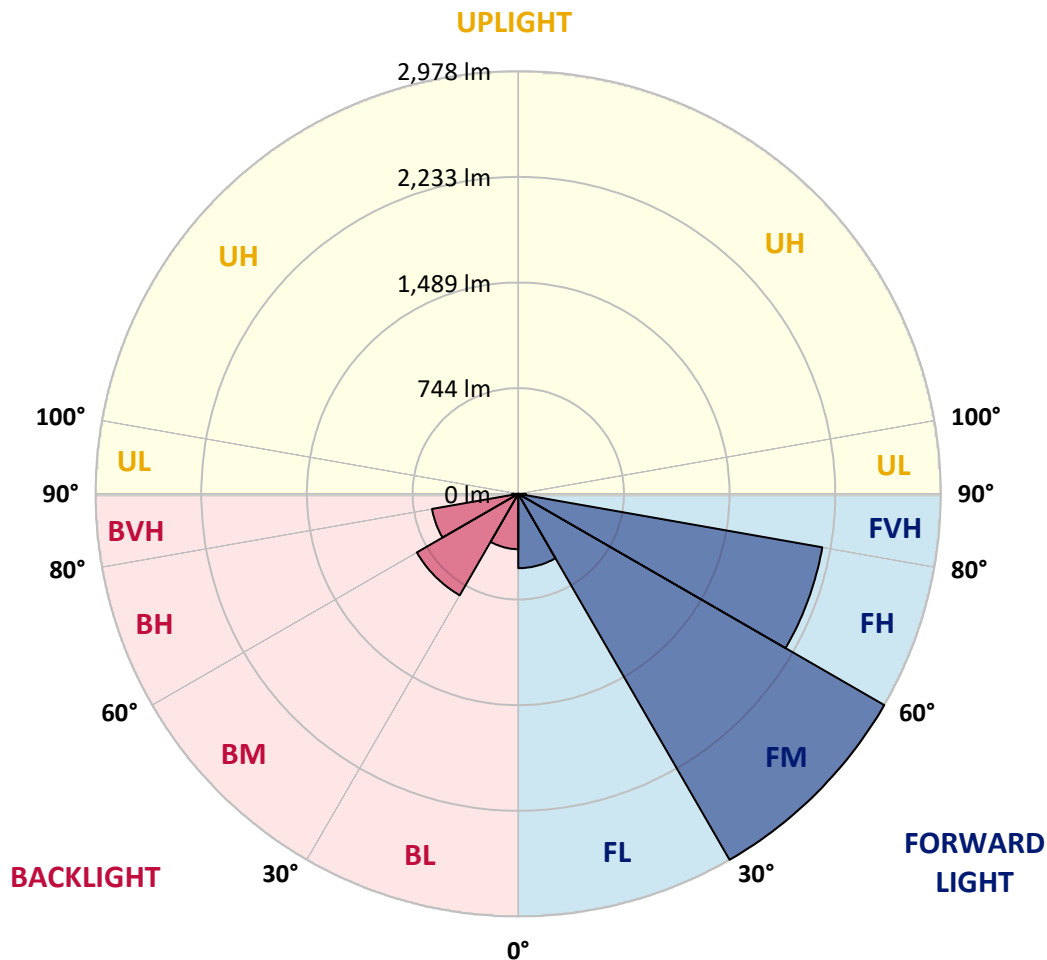


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.9	6.9			
FM (30°-60°)	2977.9	39.1			
FH (60°-80°)	2175.3	28.6			G2/5000
FVH (80°-90°)	55.7	0.7			G1/100
BL (0°-30°)	390.2	5.1	B1/500		
BM (30°-60°)	825.2	10.8	B1/1000		
BH (60°-80°)	616.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	43.8	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°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1142.2	1148.6	1146.6	1144.6	1144.6	1141.7	1141.3	1137.3	1134.1	1128.8	1127.6
5°	1156.7	1163.6	1162.8	1164.4	1169.6	1170.9	1172.0	1169.6	1163.2	1156.7	1153.8
7.5°	1143.8	1151.5	1153.8	1163.6	1179.7	1194.2	1205.1	1209.6	1203.6	1194.2	1189.8
10°	1100.1	1108.6	1117.1	1140.1	1168.8	1203.1	1232.2	1249.6	1248.3	1239.4	1231.7
12.5°	1011.8	1020.6	1038.8	1083.6	1136.1	1196.7	1250.8	1287.1	1299.6	1293.1	1279.8
15°	941.1	948.7	962.5	1008.5	1076.8	1168.8	1257.7	1328.3	1360.2	1356.6	1340.4
17.5°	939.1	942.3	950.8	972.6	1025.1	1125.2	1250.4	1368.7	1429.6	1429.3	1409.1
20°	974.6	975.8	980.6	985.1	1015.0	1092.1	1231.7	1402.2	1507.6	1507.6	1485.7
22.5°	1023.9	1023.1	1027.9	1023.9	1038.4	1089.3	1220.1	1431.6	1594.4	1600.8	1573.4
25°	1097.8	1093.7	1092.5	1083.2	1086.1	1115.5	1233.0	1465.1	1697.3	1710.6	1676.3
27.5°	1196.3	1189.8	1185.3	1164.0	1156.7	1169.6	1272.5	1505.5	1812.0	1835.0	1791.4
30°	1324.6	1312.9	1306.5	1269.4	1243.1	1245.1	1332.3	1559.2	1931.8	1969.0	1913.7
32.5°	1499.9	1481.7	1464.3	1403.3	1355.4	1339.6	1409.5	1633.5	2061.9	2121.2	2050.1
35°	1696.1	1681.5	1663.0	1568.9	1495.1	1458.7	1513.6	1737.3	2214.1	2308.1	2215.6
37.5°	1885.0	1872.5	1881.4	1754.6	1659.4	1606.5	1650.0	1876.6	2401.8	2540.7	2423.2
40°	2080.4	2070.7	2071.9	1950.9	1839.8	1780.4	1815.6	2051.3	2617.0	2817.2	2672.7
42.5°	2292.8	2285.5	2261.4	2153.9	2029.2	1973.8	2006.1	2253.3	2848.0	3132.2	2946.5
45°	2530.6	2526.1	2503.6	2380.4	2237.5	2175.4	2218.9	2476.1	3080.0	3428.5	3221.4
47.5°	2736.1	2739.7	2736.9	2633.1	2485.0	2393.7	2445.9	2708.7	3296.1	3707.1	3485.0
50°	2835.0	2854.0	2881.9	2849.5	2757.5	2664.6	2674.7	2933.1	3502.0	3968.3	3737.8
52.5°	2783.3	2819.3	2895.2	2946.9	2982.3	2963.0	2935.9	3156.0	3695.7	4204.0	3976.8
55°	2590.8	2641.2	2767.2	2891.9	3073.3	3214.1	3249.7	3403.1	3884.7	4411.6	4202.8
57.5°	2239.9	2321.8	2434.9	2687.2	2992.5	3335.7	3615.4	3745.9	4084.9	4633.2	4439.5
60°	1638.4	1748.1	1888.7	2264.1	2709.9	3270.7	3926.7	4272.3	4369.6	4920.3	4747.5
62.5°	1048.5	1116.3	1245.5	1599.2	2111.5	2937.5	4022.0	4930.4	4852.0	5391.0	5209.4
65°	717.8	761.5	879.8	1078.4	1365.0	2186.6	3766.8	5423.8	5618.3	6137.1	5999.0
67.5°	521.6	554.7	655.7	829.6	889.4	1294.0	2923.0	5401.1	6363.2	6905.8	6691.1
70°	380.3	403.7	488.5	655.7	684.3	719.9	1770.8	4591.3	6347.1	7110.1	6852.9
72.5°	281.8	298.0	354.9	508.7	553.9	486.1	876.5	3336.9	5454.0	6431.1	6224.7
75°	203.9	216.0	258.0	389.2	443.3	370.2	437.3	1950.1	3804.4	4523.8	4560.1
77.5°	155.8	165.1	192.6	285.1	354.9	277.8	271.3	897.1	1803.9	1812.7	1914.5
80°	125.2	131.2	146.2	200.7	272.1	208.0	176.8	362.1	570.1	482.5	506.2
82.5°	92.0	102.2	123.5	140.9	194.6	143.3	107.8	182.9	216.8	186.5	188.2
85°	52.5	59.3	74.7	101.0	124.3	87.6	61.8	81.2	101.0	82.7	73.9
87.5°	18.6	24.2	26.2	39.6	54.1	36.3	23.8	23.4	33.1	24.6	20.6
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°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1123.6	1121.6	1113.5	1102.6	1091.3	1080.4	1076.8	1069.1	1063.8	1061.0	1064.3
5°	1146.2	1139.7	1120.7	1096.5	1071.1	1043.7	1024.3	1006.6	993.6	981.4	986.4
7.5°	1178.5	1167.2	1134.5	1092.1	1046.8	1001.2	967.3	941.5	924.1	912.9	915.2
10°	1216.1	1198.6	1148.6	1085.3	1015.4	950.0	910.0	887.9	876.9	870.8	872.5
12.5°	1259.2	1234.6	1163.2	1069.5	967.3	892.7	865.2	858.7	859.2	859.6	860.4
15°	1312.5	1278.2	1174.9	1035.1	904.8	848.6	843.8	854.3	865.2	870.4	870.0
17.5°	1372.7	1324.2	1176.9	978.7	843.4	820.4	835.7	858.3	874.8	882.1	883.8
20°	1437.3	1371.0	1162.4	898.7	792.9	797.3	824.8	853.9	872.1	881.4	883.8
22.5°	1511.2	1421.2	1127.6	814.8	751.7	772.3	804.6	832.9	851.9	861.2	863.6
25°	1595.5	1477.2	1073.1	744.0	716.3	744.0	776.3	799.8	815.2	823.6	826.0
27.5°	1689.2	1535.8	1000.4	688.0	685.1	715.0	741.7	759.8	767.9	774.4	776.7
30°	1783.3	1589.1	912.5	645.5	658.0	686.3	705.3	713.4	715.9	717.0	719.9
32.5°	1885.0	1635.1	820.0	610.5	632.2	658.5	669.8	673.4	662.2	654.5	656.9
35°	2008.2	1684.4	729.6	582.6	606.8	629.5	633.0	629.9	616.5	600.8	601.6
37.5°	2160.4	1745.8	657.2	562.8	583.0	597.9	593.5	592.7	593.9	575.3	576.6
40°	2346.9	1825.6	604.3	547.5	563.6	566.8	554.3	561.2	567.2	538.9	539.8
42.5°	2554.0	1922.2	570.9	537.0	547.5	539.8	520.4	528.1	527.3	490.2	489.7
45°	2765.1	2027.1	559.1	529.3	532.5	517.2	495.8	497.8	480.8	447.3	448.5
47.5°	2975.1	2139.8	566.4	522.9	513.9	496.6	480.0	471.2	446.1	421.1	421.1
50°	3181.0	2258.1	593.1	509.9	488.5	478.5	466.3	450.6	423.9	402.5	400.9
52.5°	3371.9	2377.2	623.0	488.5	456.6	462.7	455.0	436.9	410.6	388.8	389.2
55°	3552.9	2496.3	634.7	459.0	426.7	449.0	444.5	411.0	379.6	361.7	360.1
57.5°	3749.9	2639.6	621.8	421.5	402.5	433.2	416.3	379.1	360.9	347.6	346.4
60°	4022.8	2864.5	593.9	375.0	379.6	409.8	380.7	365.4	345.6	330.7	329.8
62.5°	4476.2	3284.0	549.1	329.0	352.5	375.0	363.8	348.4	328.2	313.6	313.6
65°	5146.4	3866.9	464.7	293.2	322.2	341.1	345.6	330.3	309.2	293.9	294.7
67.5°	5711.6	4232.7	351.7	263.2	291.1	313.6	326.3	311.3	289.0	274.1	274.5
70°	5680.5	3967.1	268.4	233.8	263.6	286.7	302.8	291.1	267.3	253.2	254.3
72.5°	5045.5	3318.6	217.2	203.9	235.7	258.4	277.8	268.9	244.7	230.9	230.9
75°	3706.7	2355.8	173.6	173.6	201.1	228.9	250.3	244.7	222.4	212.8	209.9
77.5°	1562.4	988.3	136.0	144.1	167.2	196.6	223.2	225.3	205.9	218.0	197.8
80°	415.4	272.5	103.7	113.5	131.2	162.3	194.2	193.4	172.4	161.1	149.8
82.5°	158.3	107.4	73.9	79.9	94.9	124.3	153.9	158.7	137.7	119.1	119.1
85°	61.0	46.0	45.6	48.1	55.4	82.4	116.2	120.3	103.7	88.0	90.8
87.5°	15.8	13.7	16.9	16.2	25.4	44.0	66.6	69.1	63.3	36.7	52.5
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)