

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: P883061

Luminaire Tested: **NAV-SB3B-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13303 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

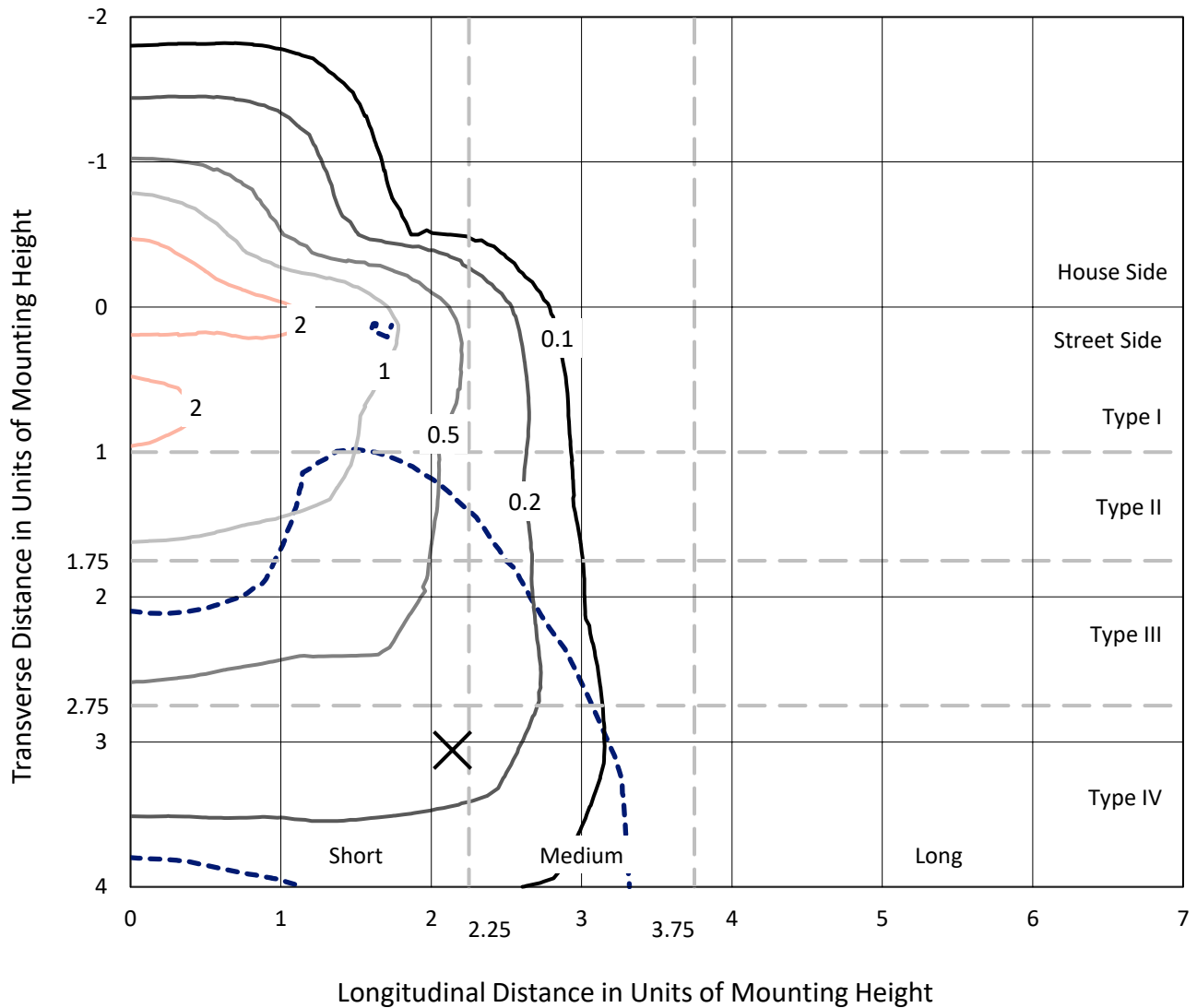
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

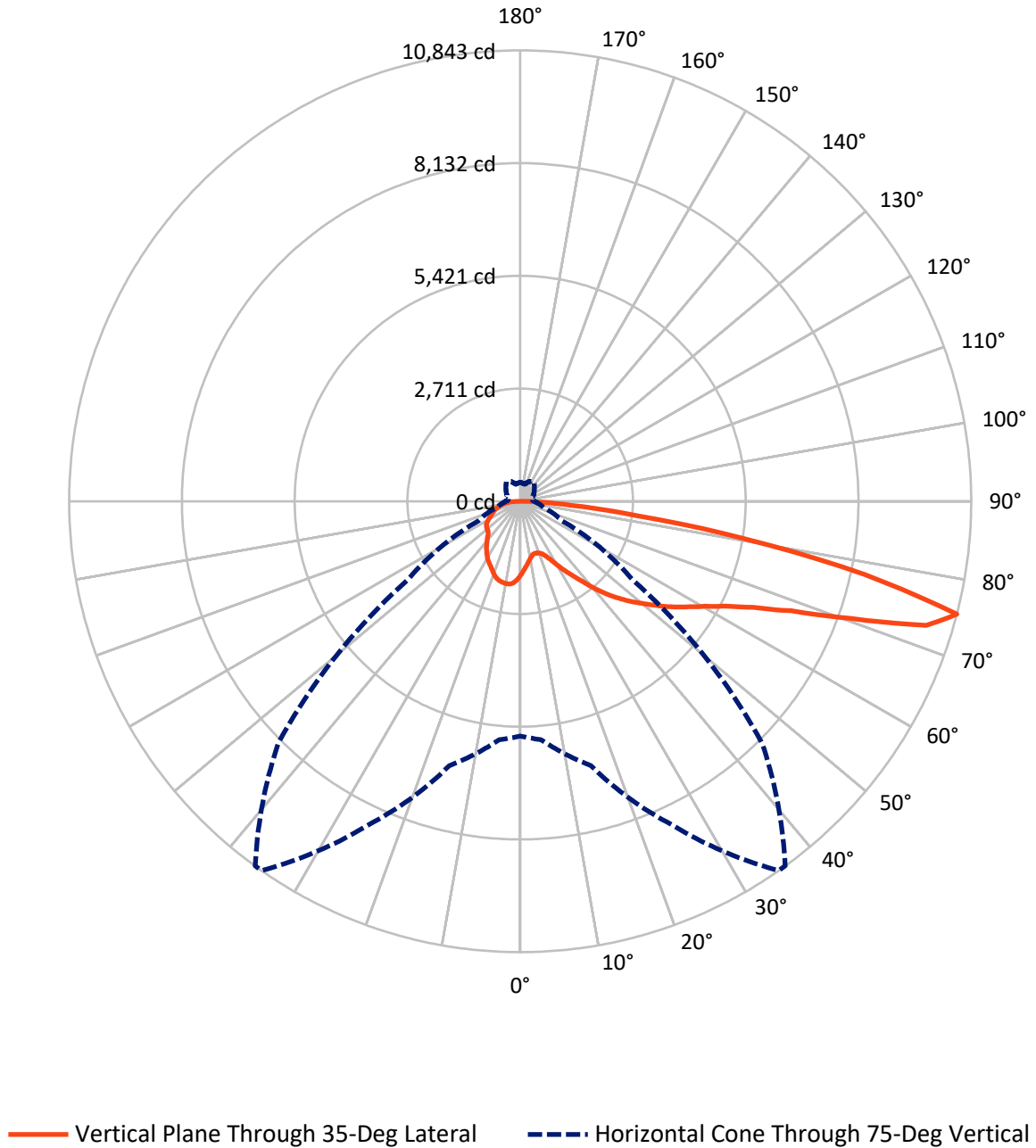
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.8	0.0	3165.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10137.2	0.0	10137.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	13303.0	0.0	13303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.3
10°-20°	484.1	3.6
20°-30°	813.0	6.1
30°-40°	1263.5	9.5
40°-50°	1875.3	14.1
50°-60°	2589.0	19.5
60°-70°	3141.0	23.6
70°-80°	2595.8	19.5
80°-90°	373.4	2.8
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°	13303.0	100.0
0°-180°	13303.0	100.0

Coefficient of Utilization



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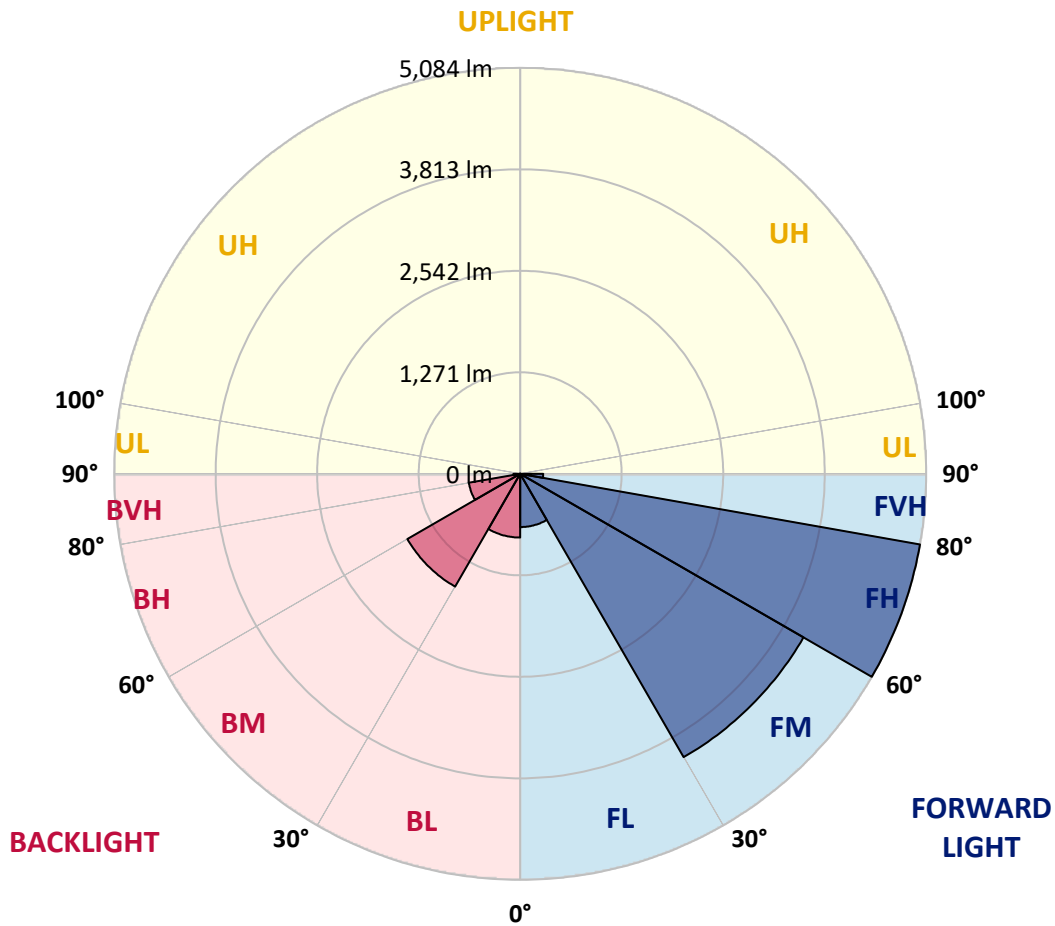
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.1	5.0			
FM (30°-60°)	4096.6	30.8			
FH (60°-80°)	5084.2	38.2			G3/7500
FVH (80°-90°)	289.3	2.2			G3/500
BL (0°-30°)	797.8	6.0	B2/1000		
BM (30°-60°)	1631.2	12.3	B2/2500		
BH (60°-80°)	652.7	4.9	B2/1000		G2/1000
BVH (80°-90°)	84.1	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1634.6	1644.7	1649.0	1646.9	1657.7	1656.2	1671.3	1690.0	1715.9	1741.1	1777.7
5°	1508.8	1519.6	1528.9	1537.6	1558.4	1564.9	1588.6	1624.6	1672.0	1720.2	1780.6
7.5°	1391.6	1400.9	1415.3	1431.1	1466.4	1472.8	1512.4	1568.5	1634.6	1705.1	1788.5
10°	1295.9	1305.3	1320.4	1338.3	1382.2	1390.1	1440.5	1515.3	1601.6	1690.7	1797.2
12.5°	1254.9	1257.8	1266.4	1284.4	1322.5	1327.6	1382.9	1468.5	1569.2	1679.9	1810.1
15°	1252.8	1258.5	1259.2	1268.6	1300.2	1302.4	1353.4	1438.3	1549.1	1677.8	1829.5
17.5°	1274.3	1278.7	1272.2	1277.9	1304.5	1308.1	1348.4	1423.9	1542.6	1687.1	1862.6
20°	1331.9	1335.5	1316.1	1308.1	1327.6	1330.4	1370.0	1433.3	1549.1	1706.6	1907.9
22.5°	1454.1	1456.3	1408.8	1376.5	1377.9	1379.3	1413.9	1471.4	1574.2	1741.8	1965.4
25°	1644.7	1643.3	1567.8	1505.2	1469.2	1461.3	1484.3	1533.2	1616.7	1788.5	2039.5
27.5°	1867.6	1856.9	1781.3	1687.9	1609.5	1598.0	1592.9	1613.8	1677.1	1850.4	2130.1
30°	2119.3	2109.3	2028.0	1905.8	1797.2	1778.5	1731.0	1720.2	1767.0	1934.5	2256.0
32.5°	2395.5	2389.0	2291.9	2143.8	1998.5	1977.0	1897.1	1868.4	1905.0	2061.8	2431.5
35°	2627.1	2621.3	2540.8	2388.3	2210.7	2184.1	2102.8	2070.4	2089.1	2225.1	2660.9
37.5°	2836.3	2833.5	2764.4	2644.3	2460.9	2428.6	2337.3	2326.5	2322.9	2440.1	2939.2
40°	3030.5	3023.3	2951.4	2888.1	2752.2	2722.7	2642.2	2632.8	2605.5	2704.7	3254.2
42.5°	3245.5	3226.8	3122.6	3093.1	3056.4	3032.0	2983.8	2985.2	2924.8	3003.2	3587.9
45°	3421.0	3410.2	3303.1	3285.8	3325.4	3315.3	3357.0	3367.8	3250.6	3316.0	3934.5
47.5°	3609.4	3599.4	3508.8	3496.5	3603.7	3606.6	3754.0	3757.6	3568.4	3641.1	4281.8
50°	3841.7	3827.3	3737.4	3752.5	3872.6	3883.4	4153.1	4128.7	3861.1	3971.2	4626.3
52.5°	3994.9	4003.5	3984.1	4008.6	4172.5	4182.6	4545.8	4483.2	4151.0	4296.9	4964.3
55°	4107.8	4125.1	4185.5	4241.6	4489.0	4499.0	4916.1	4820.5	4391.2	4599.0	5282.2
57.5°	4253.1	4228.6	4341.5	4450.8	4789.6	4816.2	5276.4	5145.5	4604.0	4859.3	5500.1
60°	4461.6	4444.4	4532.1	4693.9	5126.1	5168.6	5657.6	5438.2	4760.1	5065.7	5542.5
62.5°	4884.5	4841.3	4855.0	4998.1	5550.4	5606.5	6087.6	5693.5	4837.7	5146.3	5315.3
65°	5516.6	5442.6	5373.5	5472.8	6148.0	6203.4	6573.1	5894.2	4809.0	4990.2	4711.9
67.5°	6312.7	6239.4	6154.5	6248.0	7028.3	7072.2	7172.1	6007.1	4582.4	4389.0	3645.4
70°	6969.3	6942.0	7043.4	7428.1	8434.2	8435.7	7940.2	5913.6	3961.8	3111.8	2109.3
72.5°	6882.3	6865.8	7400.1	8589.6	10206.2	10168.1	8667.2	5206.0	2668.8	1403.8	790.4
75°	5646.1	5753.2	6581.0	8568.7	10842.7	10837.7	8222.1	3309.5	1103.9	581.8	408.5
77.5°	3027.6	3197.4	4272.5	6326.4	8464.4	8591.7	5780.6	1157.8	473.9	372.5	282.6
80°	987.4	1135.5	1703.0	3221.1	5500.1	5476.4	2477.5	454.5	324.3	263.9	195.6
82.5°	419.3	436.5	760.9	1521.0	2822.7	2778.8	788.9	261.1	228.0	180.5	120.8
85°	164.0	183.4	335.8	703.3	1222.6	1196.0	284.8	129.4	146.0	117.9	71.9
87.5°	53.9	65.4	120.1	240.9	380.4	366.8	69.8	44.6	63.3	53.9	25.9
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°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1787.8	1799.3	1813.0	1833.1	1850.4	1864.8	1879.9	1889.2	1892.8	1903.6	1902.9
5°	1800.8	1825.9	1859.7	1892.8	1925.2	1944.6	1961.9	1970.5	1978.4	1984.1	1985.6
7.5°	1822.3	1854.7	1907.9	1951.1	1978.4	1994.2	2005.7	2002.8	2005.7	2007.2	2009.3
10°	1841.0	1886.3	1949.6	1990.6	2011.5	2012.2	2009.3	1999.2	1994.2	1994.9	1996.4
12.5°	1863.3	1913.7	1982.0	2016.5	2022.3	2006.4	1994.2	1977.0	1970.5	1967.6	1966.2
15°	1893.5	1951.1	2017.2	2030.2	2015.8	1995.7	1974.8	1946.8	1932.4	1920.9	1924.5
17.5°	1930.2	1993.5	2044.6	2035.2	2004.3	1971.2	1937.4	1895.0	1865.5	1853.3	1854.0
20°	1981.3	2038.1	2065.4	2024.4	1977.7	1927.3	1869.8	1818.0	1790.7	1778.5	1777.0
22.5°	2043.1	2097.8	2085.5	2005.7	1939.6	1859.0	1787.1	1749.0	1735.3	1726.7	1728.1
25°	2117.2	2163.9	2099.9	1978.4	1877.0	1768.4	1713.0	1700.8	1694.3	1687.9	1687.9
27.5°	2213.6	2238.7	2110.7	1938.1	1779.2	1672.0	1651.9	1654.1	1651.9	1641.1	1643.3
30°	2340.8	2335.8	2120.8	1872.7	1667.0	1585.0	1586.5	1595.8	1597.2	1590.0	1593.6
32.5°	2508.4	2457.3	2125.8	1787.8	1559.8	1508.8	1510.2	1520.3	1527.5	1515.3	1521.0
35°	2711.2	2599.0	2117.9	1681.4	1477.1	1436.2	1425.4	1428.2	1430.4	1418.9	1426.8
37.5°	2947.8	2758.0	2082.7	1563.4	1408.8	1365.0	1341.9	1322.5	1311.0	1300.2	1307.4
40°	3207.4	2931.3	2017.9	1448.4	1332.6	1289.4	1254.9	1218.2	1179.4	1165.0	1171.5
42.5°	3479.3	3109.6	1939.6	1338.3	1244.9	1209.6	1172.9	1119.7	1061.5	1032.0	1035.6
45°	3761.2	3292.3	1862.6	1229.8	1155.0	1139.9	1097.4	1033.4	970.1	932.7	929.9
47.5°	4037.3	3464.9	1749.7	1120.4	1070.8	1087.4	1054.3	995.3	924.8	865.9	859.4
50°	4301.3	3626.7	1564.9	1009.7	1002.5	1071.5	1039.9	955.0	874.5	799.0	792.5
52.5°	4563.0	3757.6	1328.3	909.0	965.8	1067.2	1021.2	927.7	829.2	750.1	741.4
55°	4785.3	3825.2	1100.3	822.7	912.6	1030.5	998.9	895.3	765.2	681.0	673.8
57.5°	4911.8	3770.5	910.4	737.9	839.3	970.1	960.8	826.3	688.9	624.2	615.6
60°	4857.2	3549.0	755.1	663.8	769.5	904.7	894.6	758.0	630.7	569.6	560.9
62.5°	4555.8	3126.9	632.1	599.1	706.2	837.8	828.5	705.5	586.1	527.1	517.8
65°	3948.9	2543.6	536.5	545.1	642.2	757.3	770.9	661.6	550.9	493.3	484.0
67.5°	3011.8	1842.5	461.7	498.4	579.6	678.2	717.7	630.0	521.4	466.7	458.1
70°	1716.6	1046.4	398.4	453.1	524.3	604.8	676.7	604.8	489.7	444.4	438.7
72.5°	650.8	480.4	344.5	407.8	471.0	543.0	631.4	565.3	453.1	419.3	413.5
75°	347.4	292.7	289.8	354.5	409.9	482.6	574.6	526.4	425.7	443.0	457.4
77.5°	236.6	207.1	242.4	303.5	343.0	415.7	514.2	467.5	368.9	367.5	338.7
80°	164.0	146.7	197.0	244.5	265.4	349.5	448.8	401.3	300.6	280.5	268.2
82.5°	98.5	95.6	147.4	182.7	187.7	269.7	371.8	336.6	246.0	214.3	215.7
85°	53.9	56.8	94.2	107.2	109.3	188.4	291.3	260.3	189.1	158.9	160.4
87.5°	15.1	19.4	34.5	42.4	52.5	97.8	173.3	154.6	94.9	66.2	66.2
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)