

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: P882564

Luminaire Tested: **NAV-SB2C-730-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

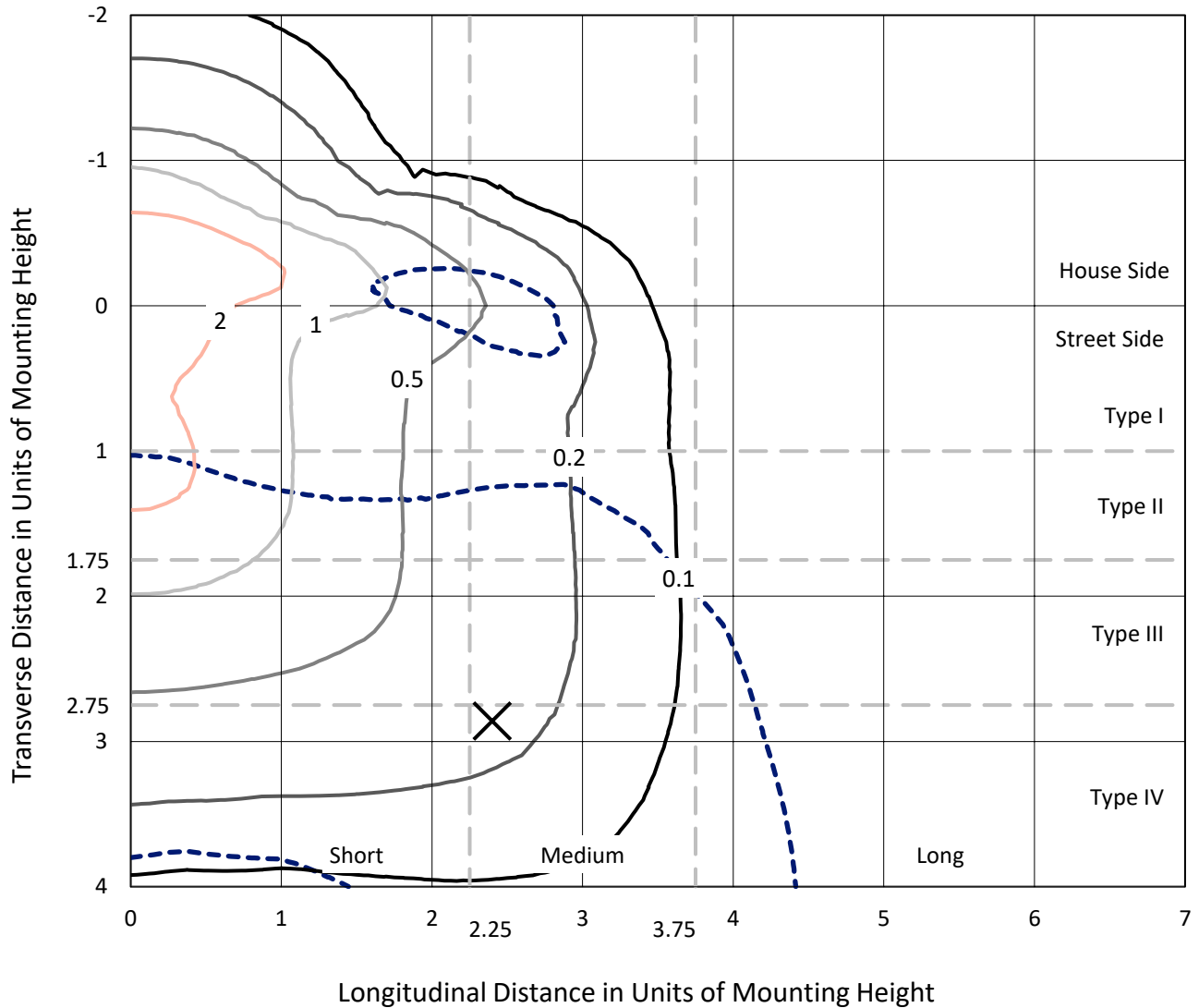
Lumens per Lamp: N/A  
Luminaire Lumens: 14894 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

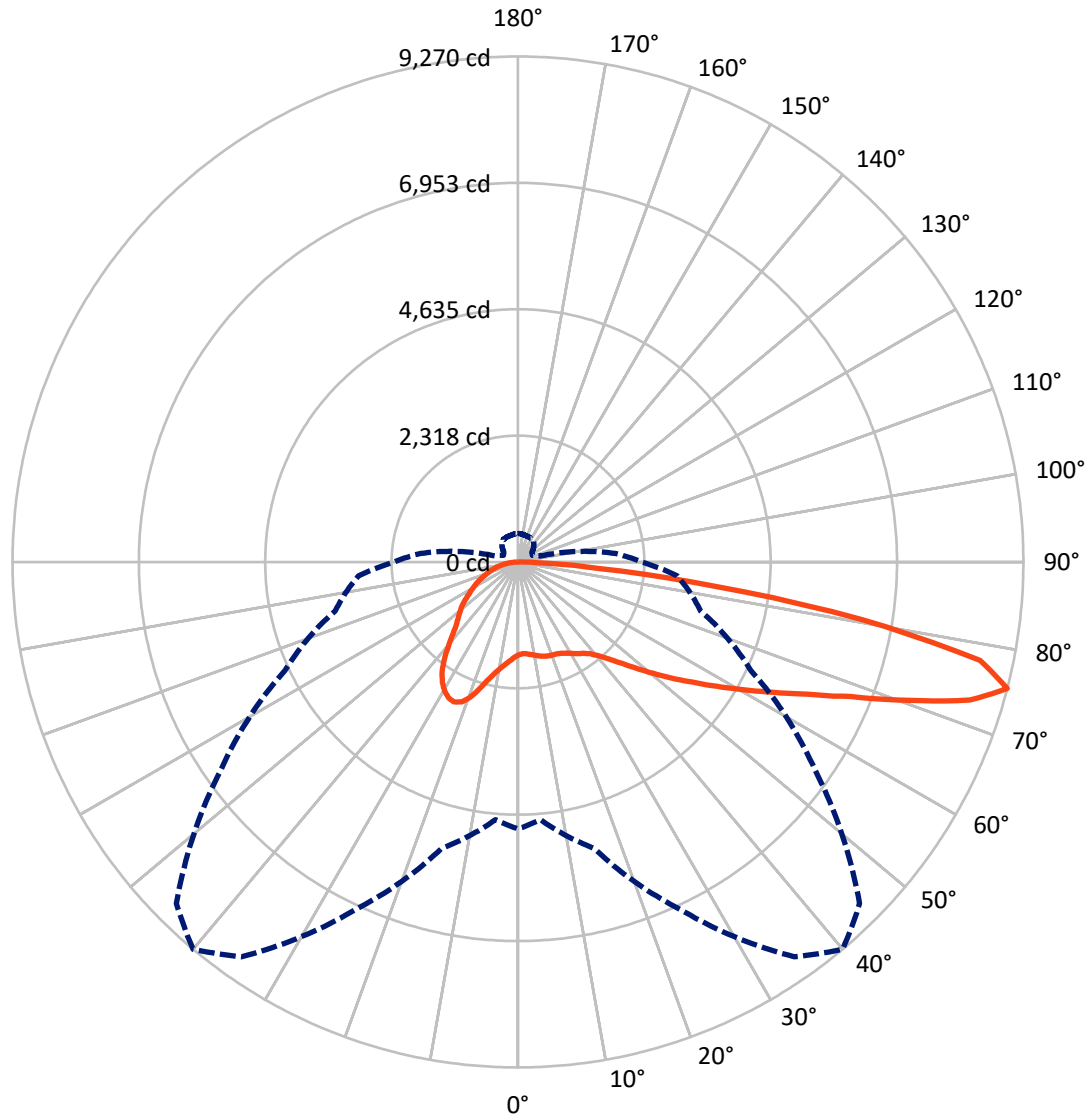
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4614.7	0.0	4614.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	10279.3	0.0	10279.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	14894.0	0.0	14894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.0	1.1
10°-20°	570.8	3.8
20°-30°	1042.2	7.0
30°-40°	1478.1	9.9
40°-50°	1995.9	13.4
50°-60°	2685.1	18.0
60°-70°	3408.0	22.9
70°-80°	3093.0	20.8
80°-90°	450.9	3.0
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°	14894.0	100.0
0°-180°	14894.0	100.0

**Coefficient of Utilization**



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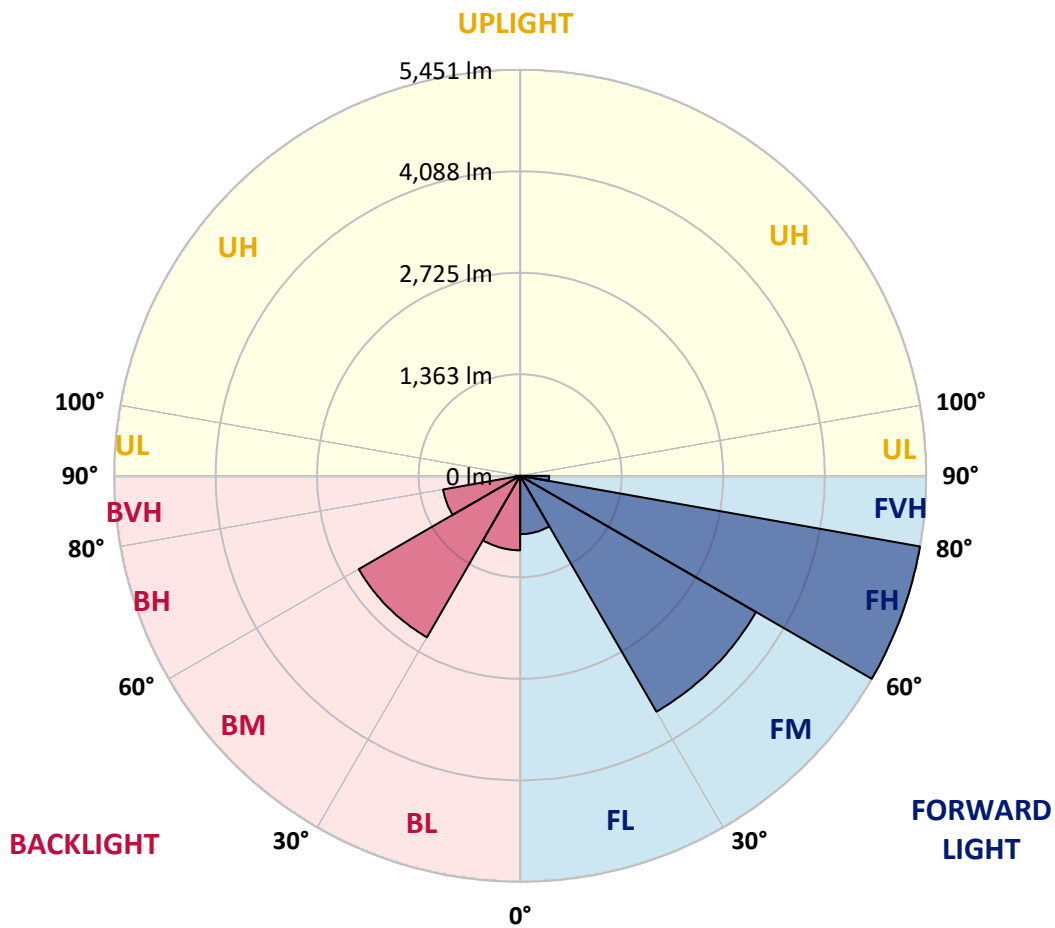
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.4	5.3			
FM (30°-60°)	3656.1	24.5			
FH (60°-80°)	5451.0	36.6			G3/7500
FVH (80°-90°)	388.8	2.6			G3/500
BL (0°-30°)	999.6	6.7	B2/1000		
BM (30°-60°)	2503.0	16.8	B3/5000		
BH (60°-80°)	1050.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	62.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1677.1	1686.6	1684.2	1681.0	1681.0	1681.0	1681.0	1686.6	1692.1	1697.6	1706.3
5°	1694.5	1703.9	1699.2	1695.2	1692.1	1692.1	1688.9	1688.1	1691.3	1698.4	1710.3
7.5°	1728.4	1737.9	1730.8	1723.7	1717.4	1717.4	1711.0	1706.3	1703.9	1707.9	1724.5
10°	1766.3	1775.8	1767.1	1754.5	1744.2	1744.2	1737.1	1732.4	1729.2	1731.6	1749.8
12.5°	1804.3	1813.7	1801.9	1784.5	1771.1	1768.7	1764.8	1763.2	1762.4	1761.6	1779.8
15°	1839.8	1847.7	1832.7	1812.2	1797.9	1794.0	1790.0	1792.4	1796.4	1801.1	1821.6
17.5°	1867.5	1875.4	1853.2	1826.4	1813.0	1811.4	1809.0	1816.9	1828.0	1839.8	1865.1
20°	1892.7	1900.6	1872.2	1835.9	1820.1	1820.1	1820.9	1837.4	1853.2	1870.6	1905.4
22.5°	1928.3	1934.6	1899.8	1850.1	1827.2	1828.8	1835.1	1851.7	1871.4	1895.1	1943.3
25°	1981.2	1986.0	1943.3	1876.9	1850.9	1855.6	1861.1	1869.0	1888.0	1915.6	1980.4
27.5°	2066.5	2070.5	2014.4	1924.3	1884.8	1892.7	1900.6	1895.1	1903.8	1927.5	2010.4
30°	2186.6	2189.0	2117.9	1998.6	1942.5	1946.5	1948.0	1925.1	1908.5	1927.5	2031.8
32.5°	2328.8	2328.0	2243.5	2088.6	2008.1	2004.1	1990.7	1945.7	1907.0	1923.5	2050.7
35°	2549.2	2540.5	2431.5	2215.0	2082.3	2057.8	2026.2	1968.6	1914.9	1919.6	2067.3
37.5°	2914.2	2887.3	2736.4	2422.0	2192.9	2130.5	2083.9	2005.7	1932.2	1918.0	2087.1
40°	3325.7	3291.8	3125.9	2705.6	2358.8	2258.5	2183.4	2058.6	1960.7	1925.1	2116.3
42.5°	3813.9	3765.7	3587.2	3039.8	2568.9	2423.6	2310.6	2125.8	2002.5	1948.0	2155.8
45°	4413.5	4349.5	4096.7	3416.6	2833.6	2640.0	2489.2	2227.7	2066.5	1992.3	2215.0
47.5°	5019.4	5035.2	4675.8	3847.9	3151.1	2907.0	2712.7	2380.9	2159.7	2063.4	2310.6
50°	5663.2	5674.3	5251.6	4325.8	3511.4	3208.8	2963.9	2552.4	2289.3	2164.5	2453.6
52.5°	6165.6	6167.2	5774.6	4825.9	3886.6	3540.6	3234.9	2748.3	2439.4	2298.8	2644.0
55°	6480.0	6476.1	6141.1	5299.0	4317.9	3889.0	3535.1	2971.0	2622.7	2456.8	2883.3
57.5°	6708.3	6696.5	6393.9	5705.9	4777.7	4300.5	3874.7	3223.8	2839.1	2644.8	3198.5
60°	6795.2	6788.1	6565.3	6057.4	5261.1	4755.5	4266.6	3506.6	3084.8	2866.8	3603.8
62.5°	6828.4	6841.8	6733.6	6397.9	5778.5	5259.5	4697.1	3844.7	3361.3	3118.0	4031.2
65°	6945.3	6969.8	6947.7	6843.4	6363.1	5849.6	5268.2	4246.8	3663.0	3387.3	4477.5
67.5°	7176.8	7201.3	7210.7	7376.6	7077.2	6585.1	5980.8	4747.6	4016.1	3667.0	4813.2
70°	7171.2	7164.1	7331.6	7800.8	7971.5	7603.3	6941.4	5363.8	4437.2	3899.2	4855.9
72.5°	6527.4	6470.5	6866.3	7796.1	8715.6	8666.6	8114.4	6158.5	4800.6	3927.7	4213.6
75°	4896.9	4745.3	5444.4	7025.9	8839.6	9270.2	8860.2	6651.4	4714.5	3470.3	2932.3
77.5°	2094.2	1941.7	2765.6	5201.1	7911.4	8665.8	8176.1	5803.0	3763.4	2294.8	1440.1
80°	548.2	547.4	835.8	2358.0	5380.4	6399.4	5614.2	3747.6	2150.3	820.0	397.3
82.5°	226.7	221.2	307.3	917.1	2629.0	3591.1	2930.7	1671.6	776.5	222.0	131.9
85°	84.5	83.7	149.3	316.8	927.4	1481.2	1072.0	427.4	193.5	108.2	59.2
87.5°	23.7	22.9	32.4	109.8	225.9	342.8	183.3	70.3	54.5	42.7	17.4
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°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1708.7	1712.6	1719.7	1725.3	1732.4	1740.3	1751.3	1758.4	1765.6	1770.3	1767.1
5°	1715.8	1724.5	1742.6	1760.8	1782.1	1801.9	1824.8	1841.4	1854.8	1858.8	1860.4
7.5°	1731.6	1745.8	1776.6	1807.4	1841.4	1873.8	1907.0	1935.4	1958.3	1967.0	1967.8
10°	1759.2	1778.2	1821.6	1865.1	1910.1	1959.9	2002.5	2043.6	2076.0	2089.4	2090.2
12.5°	1794.0	1817.7	1874.6	1934.6	1997.0	2065.7	2121.0	2171.6	2211.9	2230.1	2230.1
15°	1839.0	1869.8	1942.5	2023.1	2114.7	2210.3	2280.6	2336.7	2381.7	2403.8	2402.3
17.5°	1888.0	1929.1	2020.7	2142.4	2273.5	2399.1	2481.3	2522.3	2568.9	2590.3	2589.5
20°	1935.4	1986.0	2117.1	2294.0	2468.6	2602.1	2668.5	2679.5	2682.7	2685.1	2691.4
22.5°	1984.4	2052.3	2238.0	2485.2	2672.4	2764.9	2774.3	2726.9	2660.6	2629.8	2638.5
25°	2038.1	2128.1	2395.9	2696.1	2847.8	2858.9	2786.2	2670.8	2545.2	2487.6	2496.3
27.5°	2090.2	2215.8	2585.5	2897.6	2974.2	2877.0	2720.6	2557.1	2405.4	2344.6	2351.7
30°	2142.4	2316.2	2794.9	3073.7	3031.9	2832.0	2617.1	2434.6	2282.2	2218.2	2225.3
32.5°	2195.3	2433.1	3035.8	3200.9	3021.6	2736.4	2488.4	2297.2	2162.9	2095.8	2104.4
35°	2255.3	2576.8	3264.1	3270.4	2952.9	2595.8	2318.5	2132.9	2016.0	1962.3	1974.1
37.5°	2333.5	2759.3	3465.5	3287.8	2832.8	2389.6	2107.6	1938.6	1842.2	1817.7	1835.1
40°	2430.7	2978.9	3619.6	3260.2	2655.0	2139.2	1876.9	1741.9	1687.3	1692.9	1711.8
42.5°	2557.1	3224.6	3727.8	3189.1	2407.8	1880.9	1674.7	1614.7	1640.7	1662.9	1683.4
45°	2721.4	3479.8	3795.0	3068.2	2128.1	1662.1	1555.4	1569.6	1589.4	1591.8	1607.6
47.5°	2931.5	3738.1	3839.2	2885.7	1843.0	1508.0	1479.6	1482.8	1478.8	1462.2	1474.9
50°	3193.8	3989.3	3878.7	2644.0	1600.5	1411.7	1373.7	1362.7	1308.2	1254.5	1261.6
52.5°	3492.4	4220.0	3895.3	2343.8	1411.7	1331.1	1269.5	1199.9	1098.0	1081.5	1087.0
55°	3824.2	4433.2	3852.6	1974.9	1252.9	1227.6	1134.4	1050.6	1039.6	1025.4	1027.7
57.5°	4220.7	4663.1	3765.7	1563.3	1090.1	1106.7	1015.9	1025.4	1005.6	983.5	979.5
60°	4654.4	4900.9	3613.3	1188.1	921.9	955.8	985.1	984.3	978.8	960.6	954.3
62.5°	5044.7	5057.3	3313.1	910.0	774.2	838.9	918.7	917.9	913.2	902.9	899.0
65°	5276.9	5033.6	2812.2	716.5	652.5	742.6	828.7	835.0	835.8	835.0	835.0
67.5°	5235.8	4756.3	2125.0	570.3	552.2	644.6	739.4	748.1	754.4	756.0	757.6
70°	4771.3	4147.3	1385.6	455.0	462.9	558.5	654.9	663.6	669.1	675.4	678.6
72.5°	3719.1	3049.2	793.1	368.1	384.7	484.2	571.1	581.4	584.6	596.4	601.2
75°	2266.4	1793.2	428.2	289.9	316.0	413.9	488.2	500.0	505.6	519.8	521.4
77.5°	1077.5	776.5	244.1	225.9	254.4	338.1	412.4	425.8	410.8	418.7	412.4
80°	364.2	288.3	154.0	172.2	194.3	263.8	330.2	343.6	312.0	310.5	307.3
82.5°	127.2	116.9	98.0	114.5	125.6	188.8	249.6	267.0	232.2	231.5	220.4
85°	49.8	47.4	54.5	62.4	75.0	116.1	164.3	173.0	143.0	115.3	113.8
87.5°	10.3	11.1	13.4	14.2	22.9	40.3	59.2	72.7	57.7	49.0	45.0
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)