

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: P962887

Luminaire Tested: **NAV-SB2D-722-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2D-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17080.6 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3

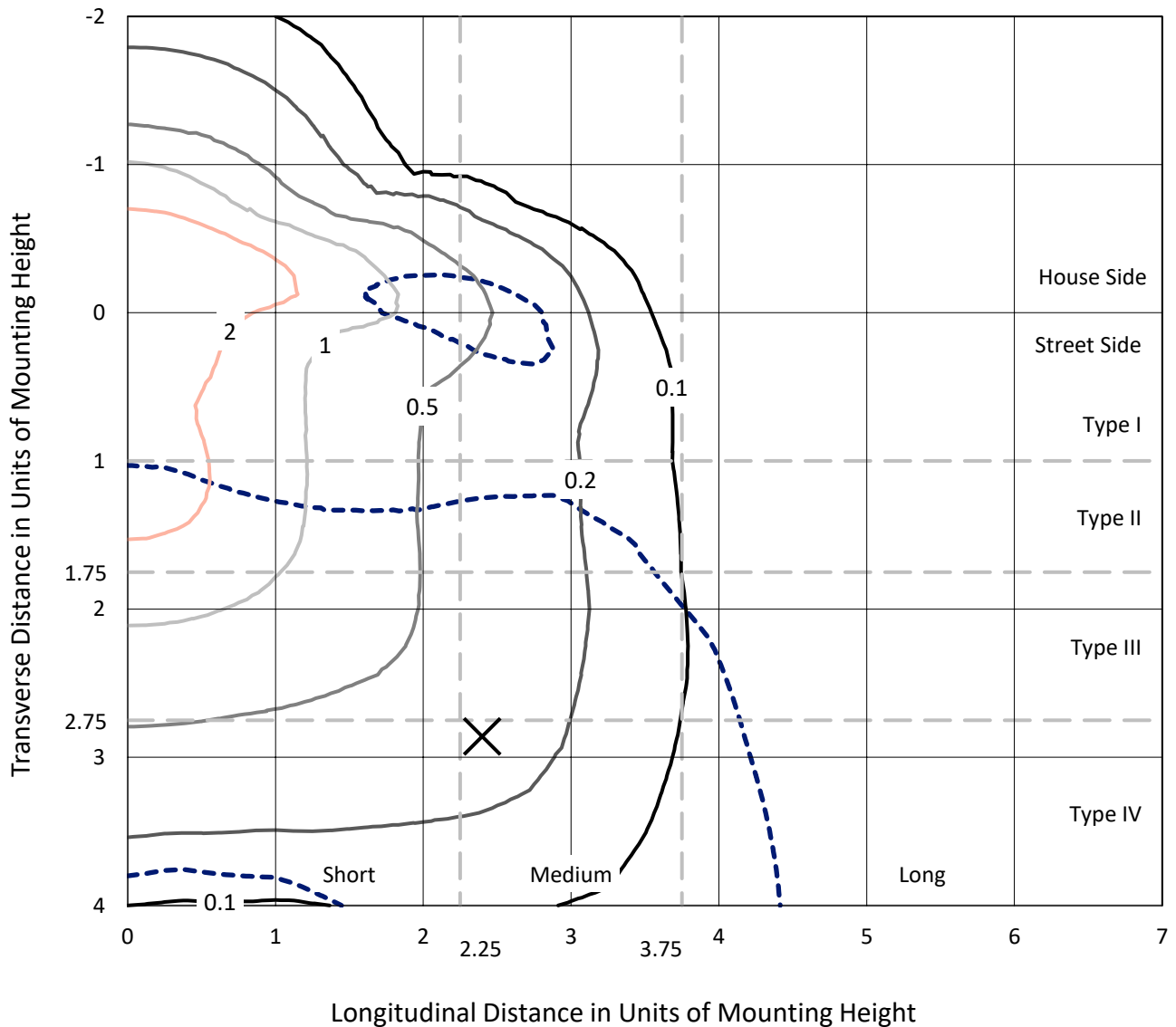
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

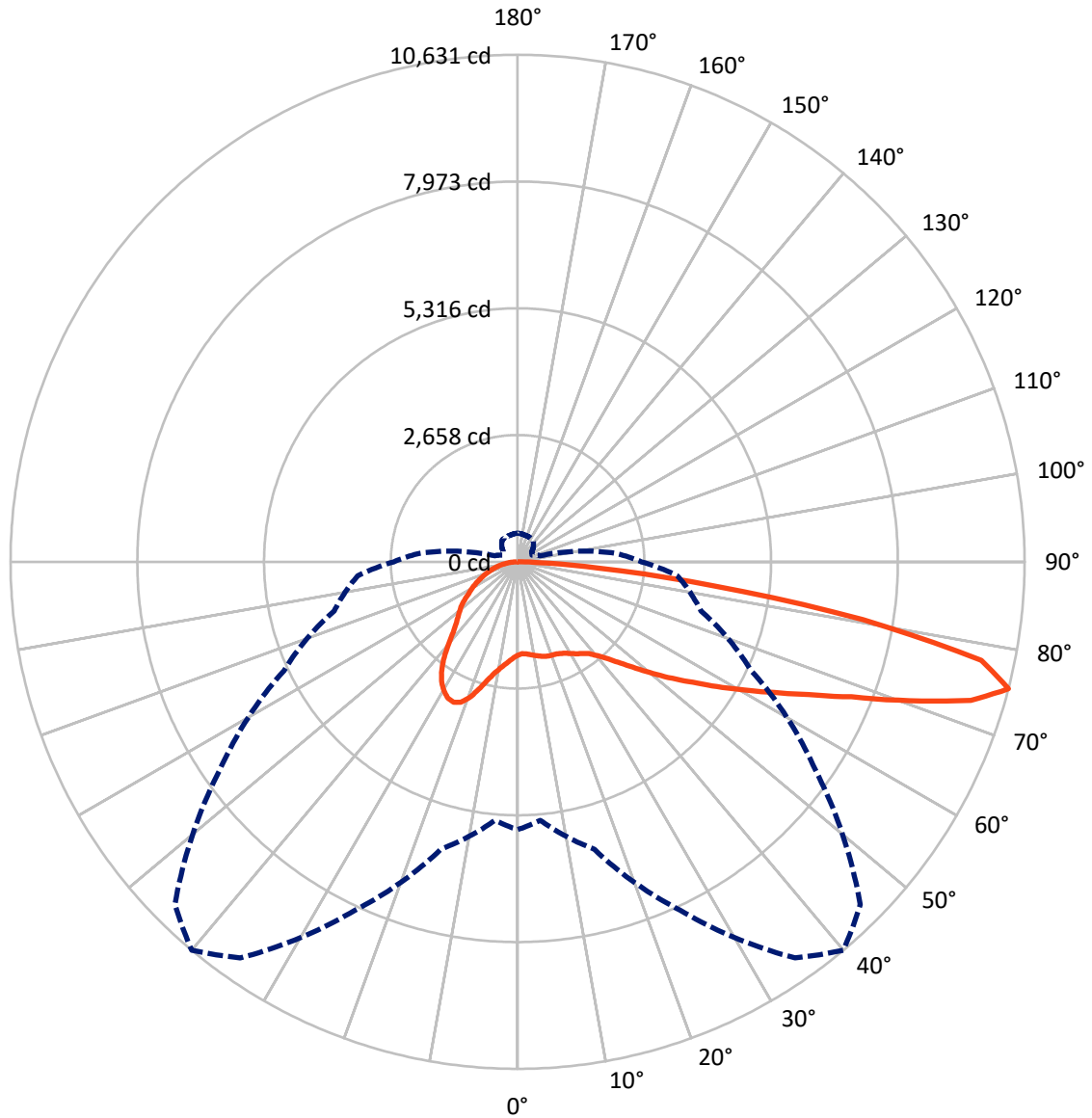
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	5292.1	0.0	5292.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	11788.5	0.0	11788.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	17080.6	0.0	17080.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	1.1
10°-20°	654.6	3.8
20°-30°	1195.2	7.0
30°-40°	1695.2	9.9
40°-50°	2289.0	13.4
50°-60°	3079.3	18.0
60°-70°	3908.3	22.9
70°-80°	3547.0	20.8
80°-90°	517.0	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°	17080.6	100.0
0°-180°	17080.6	100.0

**Coefficient of Utilization**

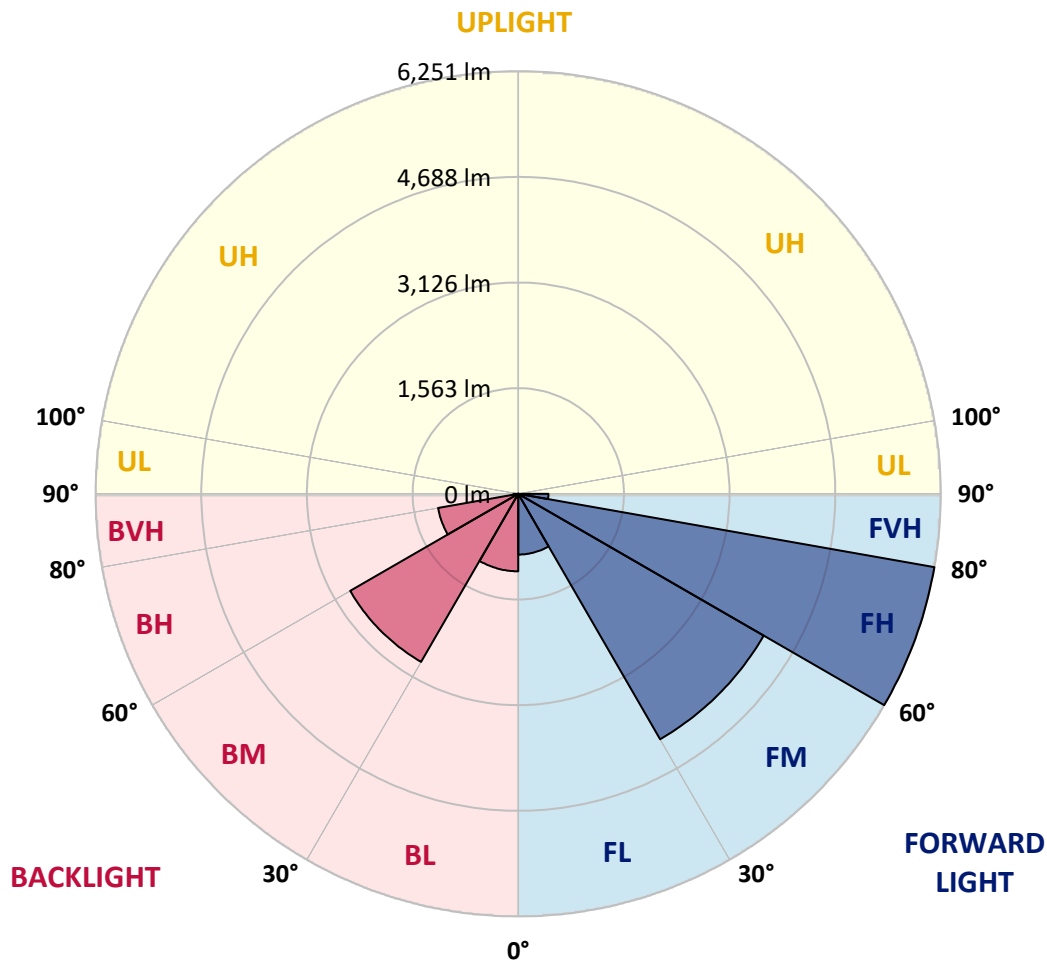


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.5	5.3			
FM (30°-60°)	4192.9	24.5			
FH (60°-80°)	6251.2	36.6			G3/7500
FVH (80°-90°)	445.9	2.6			G3/500
BL (0°-30°)	1146.3	6.7	B3/2500		
BM (30°-60°)	2870.5	16.8	B3/5000		
BH (60°-80°)	1204.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	71.2	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°	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2
2.5°	1923.3	1934.2	1931.4	1927.8	1927.8	1928.7	1927.8	1934.2	1940.5	1946.9	1956.8
5°	1943.2	1954.1	1948.6	1944.1	1940.5	1939.6	1936.8	1936.0	1939.6	1947.7	1961.3
7.5°	1982.1	1993.0	1984.9	1976.7	1969.5	1965.8	1962.3	1956.8	1954.1	1958.7	1977.6
10°	2025.7	2036.6	2026.5	2012.1	2000.3	1995.8	1992.2	1986.8	1983.1	1985.8	2006.6
12.5°	2069.2	2080.0	2066.4	2046.5	2031.1	2028.4	2023.9	2022.0	2021.1	2020.3	2041.1
15°	2110.0	2119.0	2101.8	2078.2	2061.9	2057.4	2052.9	2055.5	2060.0	2065.5	2089.1
17.5°	2141.6	2150.7	2125.3	2094.5	2079.1	2077.3	2074.6	2083.6	2096.3	2110.0	2138.9
20°	2170.6	2179.7	2147.1	2105.4	2087.3	2087.3	2088.1	2107.2	2125.3	2145.2	2185.1
22.5°	2211.3	2218.6	2178.7	2121.6	2095.4	2097.3	2104.5	2123.5	2146.1	2173.3	2228.6
25°	2272.1	2277.5	2228.6	2152.5	2122.6	2128.0	2134.4	2143.5	2165.2	2196.9	2271.2
27.5°	2369.9	2374.4	2310.1	2206.8	2161.5	2170.6	2179.7	2173.3	2183.2	2210.5	2305.6
30°	2507.7	2510.3	2428.8	2292.0	2227.7	2232.2	2234.0	2207.7	2188.7	2210.5	2330.0
32.5°	2670.6	2669.8	2572.9	2395.3	2302.9	2298.4	2283.0	2231.3	2186.9	2205.9	2351.8
35°	2923.4	2913.5	2788.4	2540.3	2388.0	2360.0	2323.7	2257.6	2196.0	2201.4	2370.8
37.5°	3342.0	3311.2	3138.1	2777.5	2514.8	2443.3	2389.9	2300.2	2215.9	2199.6	2393.5
40°	3813.9	3775.0	3584.7	3102.8	2705.1	2590.1	2504.0	2360.9	2248.5	2207.7	2427.0
42.5°	4373.9	4318.5	4113.8	3486.0	2946.1	2779.4	2649.8	2437.9	2296.5	2234.0	2472.3
45°	5061.4	4988.1	4698.2	3918.2	3249.6	3027.6	2854.6	2554.7	2369.9	2284.7	2540.3
47.5°	5756.3	5774.4	5362.2	4412.8	3613.7	3333.8	3111.0	2730.5	2476.8	2366.3	2649.8
50°	6494.6	6507.3	6022.6	4960.9	4026.9	3679.9	3399.1	2927.1	2625.4	2482.2	2813.8
52.5°	7070.8	7072.6	6622.3	5534.4	4457.2	4060.4	3709.8	3151.8	2797.5	2636.3	3032.2
55°	7431.4	7426.8	7042.7	6077.0	4951.8	4459.9	4054.1	3407.2	3007.7	2817.4	3306.6
57.5°	7693.1	7679.6	7332.6	6543.5	5479.0	4931.9	4443.6	3697.1	3255.9	3033.1	3668.2
60°	7792.9	7784.7	7529.2	6946.7	6033.5	5453.7	4892.9	4021.4	3537.7	3287.6	4132.9
62.5°	7830.9	7846.3	7722.1	7337.2	6626.9	6031.7	5386.7	4409.1	3854.7	3575.7	4623.0
65°	7965.0	7993.1	7967.6	7848.1	7297.3	6708.4	6041.7	4870.3	4200.8	3884.6	5134.8
67.5°	8230.4	8258.4	8269.4	8459.6	8116.3	7551.9	6858.8	5444.7	4605.7	4205.4	5519.8
70°	8224.1	8215.9	8408.0	8946.1	9141.8	8719.6	7960.5	6151.2	5088.6	4471.7	5568.7
72.5°	7485.7	7420.5	7874.4	8940.7	9995.2	9939.0	9305.8	7062.7	5505.4	4504.3	4832.3
75°	5615.9	5441.9	6243.7	8057.3	10137.4	10631.1	10160.9	7627.9	5406.6	3979.8	3362.8
77.5°	2401.6	2226.8	3171.7	5964.7	9072.9	9938.1	9376.4	6655.0	4315.9	2631.7	1651.5
80°	628.7	627.8	958.5	2704.3	6170.3	7339.0	6438.4	4297.7	2465.9	940.3	455.7
82.5°	260.0	253.7	352.4	1051.8	3014.9	4118.3	3361.0	1917.0	890.5	254.6	151.3
85°	97.0	96.0	171.2	363.3	1063.5	1698.6	1229.4	490.2	221.9	124.1	68.0
87.5°	27.2	26.2	37.1	126.0	259.1	393.2	210.1	80.7	62.5	48.9	19.9
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°	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2
2.5°	1959.5	1964.1	1972.2	1978.6	1986.8	1995.8	2008.5	2016.6	2024.8	2030.2	2026.5
5°	1967.7	1977.6	1998.4	2019.4	2043.7	2066.4	2092.7	2111.7	2127.1	2131.7	2133.4
7.5°	1985.8	2002.1	2037.4	2072.8	2111.7	2148.9	2186.9	2219.5	2245.8	2255.8	2256.6
10°	2017.5	2039.2	2089.1	2138.9	2190.5	2247.6	2296.5	2343.7	2380.8	2396.1	2397.1
12.5°	2057.4	2084.5	2149.7	2218.6	2290.2	2369.0	2432.4	2490.4	2536.6	2557.5	2557.5
15°	2109.0	2144.3	2227.7	2320.1	2425.1	2534.8	2615.4	2679.8	2731.4	2756.7	2754.9
17.5°	2165.2	2212.3	2317.4	2456.9	2607.3	2751.3	2845.5	2892.7	2946.1	2970.6	2969.6
20°	2219.5	2277.5	2427.9	2630.9	2831.0	2984.2	3060.2	3073.0	3076.5	3079.3	3086.5
22.5°	2275.7	2353.6	2566.5	2850.0	3064.7	3170.7	3181.6	3127.3	3051.2	3015.9	3025.8
25°	2337.3	2440.6	2747.7	3091.9	3265.9	3278.6	3195.2	3062.9	2918.9	2852.8	2862.7
27.5°	2397.1	2541.2	2965.1	3322.9	3410.8	3299.4	3120.0	2932.5	2758.6	2688.8	2697.0
30°	2456.9	2656.2	3205.2	3525.0	3477.0	3247.8	3001.3	2792.1	2617.2	2543.8	2552.0
32.5°	2517.6	2790.3	3481.5	3670.8	3465.2	3138.1	2853.7	2634.5	2480.4	2403.4	2413.4
35°	2586.5	2955.2	3743.3	3750.6	3386.4	2976.9	2659.0	2446.1	2311.9	2250.3	2263.9
37.5°	2676.2	3164.4	3974.3	3770.5	3248.6	2740.4	2417.1	2223.1	2112.6	2084.5	2104.5
40°	2787.6	3416.2	4150.9	3738.8	3044.9	2453.2	2152.5	1997.6	1935.1	1941.5	1963.2
42.5°	2932.5	3698.0	4275.1	3657.2	2761.2	2157.0	1920.5	1851.8	1881.6	1907.0	1930.6
45°	3120.9	3990.6	4352.0	3518.6	2440.6	1906.1	1783.8	1800.1	1822.8	1825.4	1843.6
47.5°	3361.9	4286.9	4402.8	3309.4	2113.5	1729.4	1696.8	1700.5	1695.9	1676.9	1691.4
50°	3662.6	4575.0	4448.1	3032.2	1835.5	1618.9	1575.4	1562.7	1500.2	1438.6	1446.8
52.5°	4005.1	4839.5	4467.2	2687.9	1618.9	1526.5	1455.8	1376.1	1259.2	1240.2	1246.6
55°	4385.7	5084.1	4418.3	2264.8	1436.8	1407.8	1300.9	1204.9	1192.2	1175.9	1178.6
57.5°	4840.4	5347.7	4318.5	1792.8	1250.2	1269.3	1165.0	1175.9	1153.2	1127.9	1123.4
60°	5337.8	5620.4	4143.8	1362.5	1057.2	1096.1	1129.7	1128.8	1122.5	1101.6	1094.4
62.5°	5785.3	5799.8	3799.5	1043.7	887.9	962.1	1053.6	1052.7	1047.2	1035.5	1030.9
65°	6051.6	5772.6	3225.2	821.6	748.2	851.6	950.3	957.6	958.5	957.6	957.6
67.5°	6004.6	5454.6	2436.9	654.1	633.2	739.2	848.0	857.9	865.2	866.9	868.8
70°	5471.9	4756.1	1589.0	521.8	530.8	640.5	751.0	761.0	767.3	774.6	778.2
72.5°	4265.1	3496.9	909.6	422.2	441.2	555.3	655.0	666.8	670.3	684.0	689.4
75°	2599.1	2056.5	491.0	332.5	362.3	474.7	559.9	573.5	579.8	596.1	597.9
77.5°	1235.7	890.5	279.9	259.1	291.7	387.8	472.9	488.3	471.1	480.1	472.9
80°	417.6	330.7	176.6	197.5	222.8	302.6	378.6	394.1	357.8	356.0	352.4
82.5°	145.9	134.1	112.3	131.4	144.0	216.5	286.3	306.2	266.3	265.5	252.8
85°	57.1	54.3	62.5	71.5	86.1	133.1	188.4	198.4	164.0	132.2	130.5
87.5°	11.8	12.7	15.4	16.3	26.2	46.2	68.0	83.3	66.1	56.2	51.7
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)