

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: P882569

Luminaire Tested: **NAV-SB2C-730-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

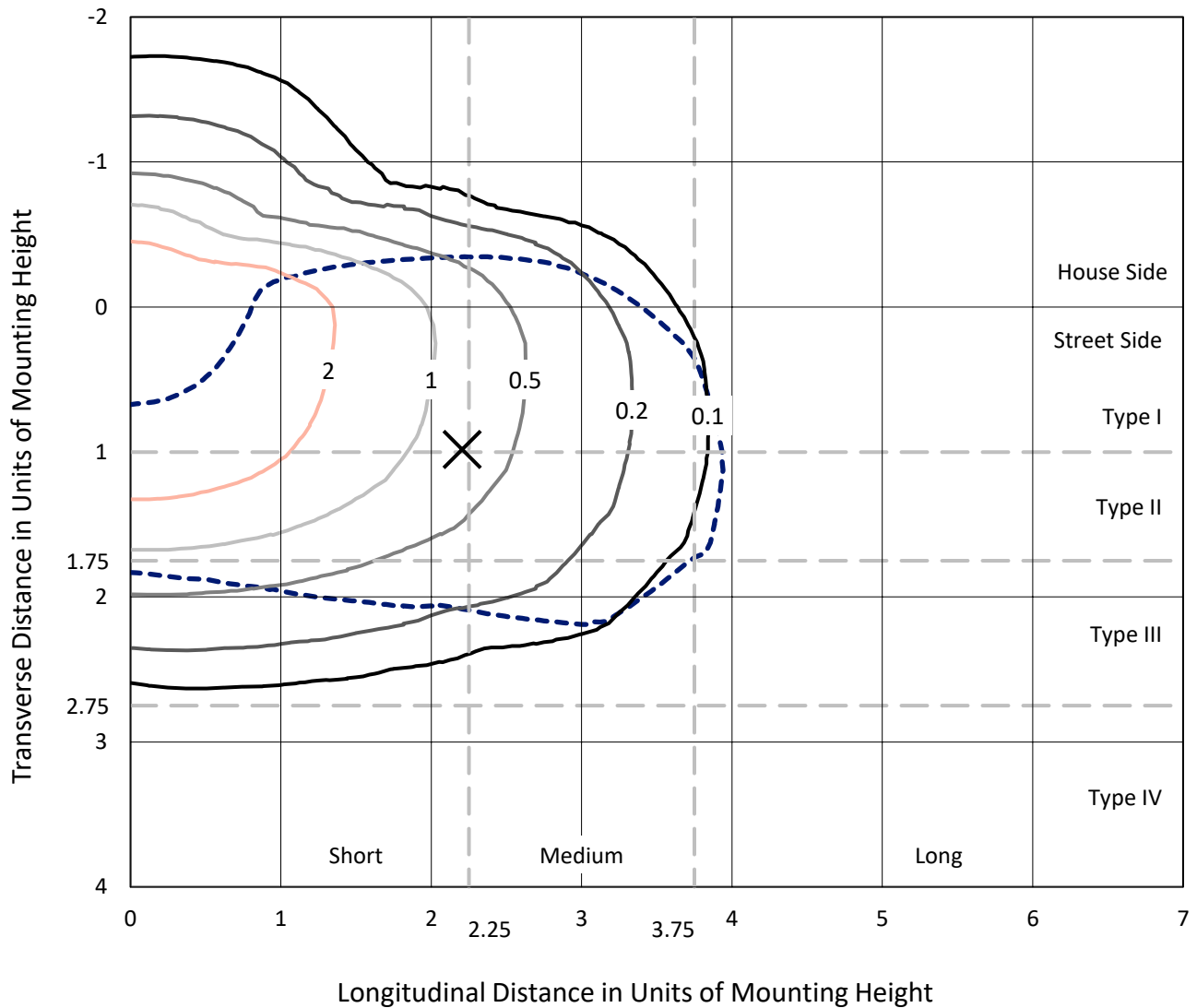
Lumens per Lamp: N/A  
Luminaire Lumens: 15035 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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



REPORT NUMBER: P882569  
 CATALOG NUMBER: NAV-SB2C-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

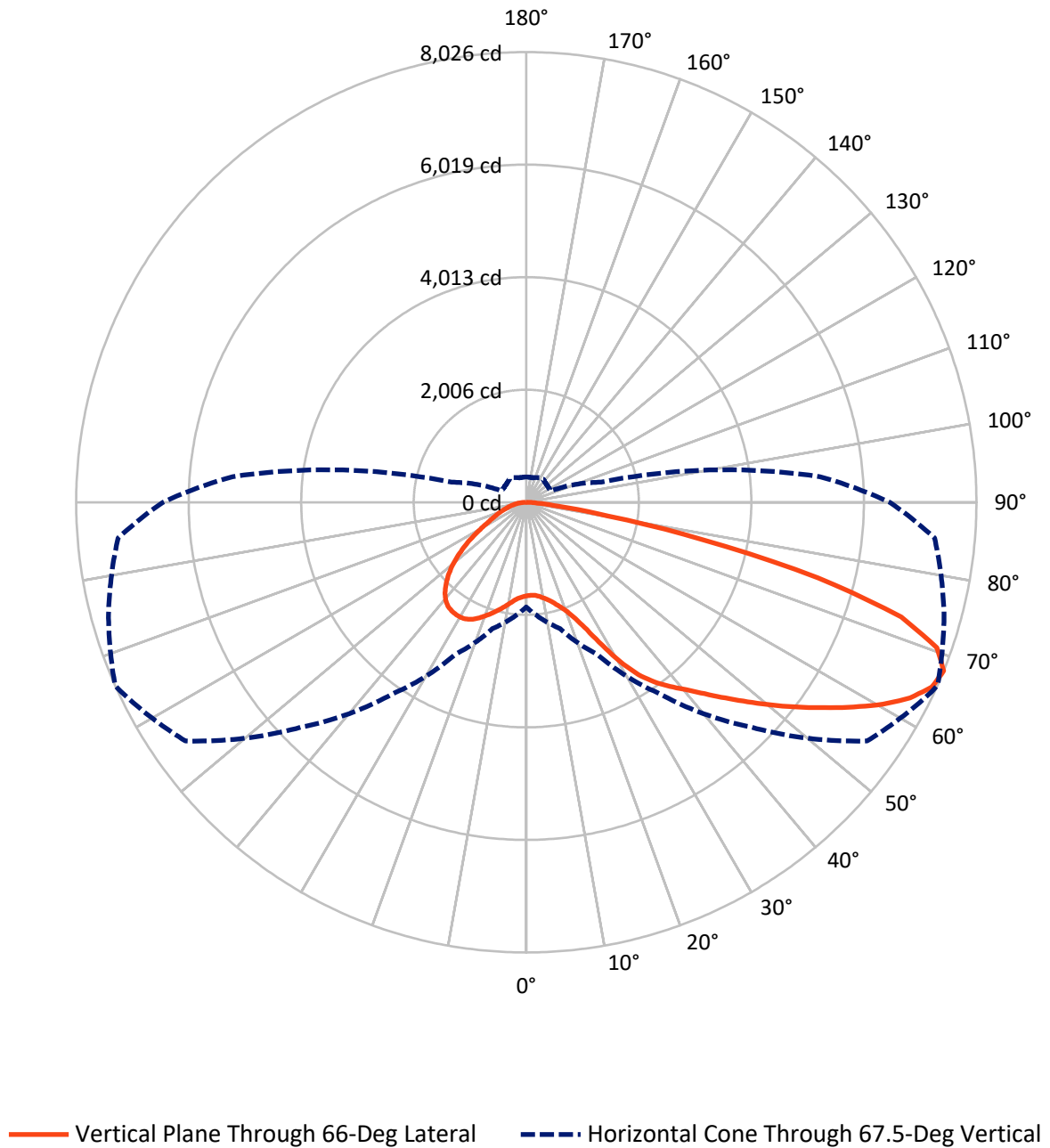
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P882569  
CATALOG NUMBER: NAV-SB2C-730-U-T3

### Luminous Intensity Polar Plot



REPORT NUMBER: P882569  
 CATALOG NUMBER: NAV-SB2C-730-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3738.4	0.0	3738.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	11296.6	0.0	11296.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	15035.0	0.0	15035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.1
10°-20°	546.2	3.6
20°-30°	1052.9	7.0
30°-40°	1846.0	12.3
40°-50°	2744.4	18.3
50°-60°	3478.9	23.1
60°-70°	3404.0	22.6
70°-80°	1623.7	10.8
80°-90°	173.5	1.2
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°	15035.0	100.0
0°-180°	15035.0	100.0

**Coefficient of Utilization**



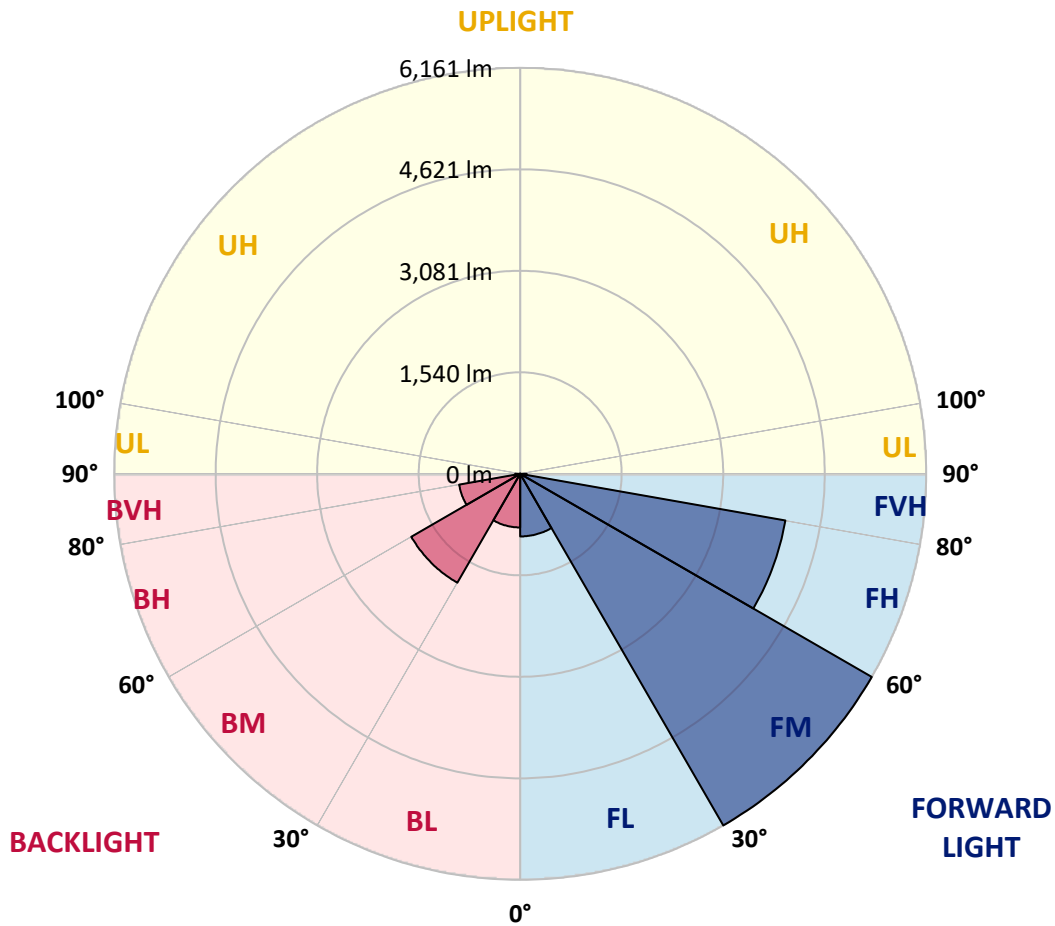
REPORT NUMBER: P882569  
 CATALOG NUMBER: NAV-SB2C-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.1	6.3			
FM (30°-60°)	6161.2	41.0			
FH (60°-80°)	4086.9	27.2			G2/5000
FVH (80°-90°)	98.4	0.7			G1/100
BL (0°-30°)	814.4	5.4	B2/1000		
BM (30°-60°)	1908.1	12.7	B2/2500		
BH (60°-80°)	940.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	75.1	0.5			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 III Short



REPORT NUMBER: P882569  
 CATALOG NUMBER: NAV-SB2C-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6
2.5°	1650.2	1659.7	1657.3	1653.4	1652.6	1654.2	1656.5	1658.9	1658.1	1662.1	1668.4
5°	1645.5	1654.9	1654.2	1654.2	1657.3	1663.6	1667.6	1671.5	1667.6	1672.3	1681.0
7.5°	1648.6	1655.7	1658.9	1662.1	1670.0	1681.8	1691.3	1700.0	1695.2	1700.8	1711.8
10°	1688.9	1694.4	1697.6	1697.6	1703.1	1716.6	1726.0	1741.8	1737.9	1746.6	1760.8
12.5°	1762.4	1767.9	1767.9	1764.7	1768.7	1777.4	1780.5	1797.9	1790.8	1805.0	1819.3
15°	1852.4	1863.5	1854.8	1849.3	1850.8	1859.5	1858.7	1872.2	1865.1	1876.9	1889.6
17.5°	1952.0	1966.2	1952.0	1951.2	1948.0	1957.5	1958.3	1970.1	1957.5	1966.2	1974.9
20°	2069.7	2089.4	2077.6	2081.5	2074.4	2078.4	2082.3	2099.7	2079.9	2086.3	2083.9
22.5°	2235.6	2259.3	2246.6	2261.6	2256.9	2253.7	2252.9	2283.7	2252.9	2255.3	2232.4
25°	2477.3	2505.7	2483.6	2504.1	2504.1	2514.4	2526.3	2565.8	2514.4	2499.4	2440.1
27.5°	2834.3	2862.8	2819.3	2832.0	2828.0	2853.3	2840.7	2938.6	2883.3	2858.8	2739.5
30°	3264.1	3314.6	3232.5	3229.3	3225.4	3265.6	3283.8	3348.6	3292.5	3268.0	3124.2
32.5°	3728.6	3781.5	3683.5	3655.1	3640.1	3664.6	3649.6	3701.7	3663.0	3625.1	3447.3
35°	4219.9	4272.0	4178.8	4123.5	4063.5	4012.1	3958.4	3971.9	3935.5	3877.9	3693.8
37.5°	4684.4	4780.0	4681.2	4622.0	4511.4	4411.1	4261.0	4198.6	4164.6	4111.7	3926.0
40°	5157.6	5212.1	5137.0	5086.5	4966.4	4809.2	4569.1	4437.1	4391.3	4340.0	4182.8
42.5°	5505.9	5558.1	5517.8	5483.0	5389.0	5206.5	4896.1	4731.0	4664.6	4607.0	4473.5
45°	5782.4	5821.1	5795.8	5808.5	5768.2	5591.3	5235.0	5046.2	4977.5	4907.2	4802.1
47.5°	5893.8	5934.9	5975.2	6050.2	6118.9	5988.6	5599.2	5387.4	5314.8	5242.9	5139.4
50°	5881.2	5923.0	6039.9	6199.5	6412.8	6369.4	5983.1	5750.8	5683.7	5601.5	5505.9
52.5°	5780.0	5827.4	5977.5	6243.0	6582.6	6654.5	6374.1	6126.0	6062.9	5964.9	5869.3
55°	5514.6	5543.1	5768.2	6144.2	6622.9	6853.6	6757.2	6525.8	6462.6	6325.9	6221.6
57.5°	5022.5	5063.6	5391.4	5878.0	6521.8	6988.7	7093.7	6946.0	6885.2	6688.5	6579.5
60°	4380.3	4445.8	4821.1	5430.9	6264.3	6987.9	7399.4	7359.2	7308.6	7045.5	6931.8
62.5°	3653.5	3729.3	4090.4	4798.9	5814.0	6789.6	7590.6	7705.2	7679.1	7375.0	7229.6
65°	2805.9	2858.0	3217.5	3981.3	5113.3	6363.8	7612.7	7941.3	7946.1	7625.4	7385.2
67.5°	1868.2	2018.3	2330.3	2987.6	4174.9	5667.9	7418.4	7980.1	8025.9	7711.5	7307.0
70°	911.6	1109.1	1414.8	1941.7	2987.6	4600.7	6910.5	7662.5	7764.4	7460.3	6840.9
72.5°	378.4	442.4	609.0	958.2	1715.0	3104.5	5889.9	6801.5	6990.2	6610.3	5751.6
75°	255.2	276.5	348.4	491.3	781.3	1530.9	4247.6	5071.5	5375.6	4992.5	4080.9
77.5°	196.7	210.1	253.6	343.6	464.5	579.0	2273.5	3056.3	3213.5	2974.9	2123.4
80°	154.8	165.1	189.6	250.4	329.4	309.7	774.9	1384.8	1475.6	1237.8	682.5
82.5°	134.3	138.2	135.9	169.8	218.8	180.9	254.4	511.1	564.0	409.2	222.8
85°	97.2	108.2	113.0	105.1	116.1	91.6	104.3	180.9	199.1	177.7	125.6
87.5°	39.5	58.5	71.9	67.9	42.7	26.1	32.4	52.9	60.8	66.4	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P882569  
 CATALOG NUMBER: NAV-SB2C-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6	1667.6
2.5°	1669.2	1674.7	1678.6	1683.4	1686.5	1691.3	1700.8	1706.3	1707.1	1711.0	1710.2
5°	1684.2	1692.1	1700.8	1713.4	1727.6	1739.5	1757.6	1770.3	1775.0	1779.0	1778.2
7.5°	1716.6	1727.6	1743.4	1765.5	1786.1	1801.9	1824.0	1839.0	1854.0	1859.5	1860.3
10°	1764.7	1780.5	1803.5	1833.5	1855.6	1876.1	1899.0	1911.7	1926.7	1933.0	1936.2
12.5°	1824.8	1841.4	1871.4	1913.3	1933.8	1948.0	1955.9	1952.8	1955.9	1961.4	1963.0
15°	1893.5	1911.7	1945.6	1990.7	2004.9	1992.2	1974.9	1959.1	1956.7	1958.3	1963.8
17.5°	1974.9	1988.3	2027.8	2065.7	2055.4	2003.3	1965.4	1940.1	1927.5	1923.5	1929.1
20°	2088.6	2088.6	2121.0	2144.7	2076.0	1987.5	1928.3	1887.2	1861.1	1850.1	1847.7
22.5°	2226.9	2214.2	2234.8	2218.2	2072.0	1943.3	1861.1	1790.0	1750.5	1734.7	1732.4
25°	2402.2	2387.2	2381.7	2279.0	2043.6	1873.0	1739.5	1653.4	1618.6	1609.9	1611.5
27.5°	2666.9	2628.9	2557.1	2312.2	1991.5	1762.4	1597.3	1517.5	1497.7	1498.5	1500.9
30°	3019.2	2943.3	2767.2	2317.7	1906.1	1606.0	1451.9	1395.0	1385.6	1389.5	1402.9
32.5°	3345.4	3273.5	2982.1	2292.4	1775.0	1452.7	1321.6	1283.7	1269.4	1274.2	1280.5
35°	3601.4	3581.6	3181.1	2256.9	1613.9	1308.9	1204.7	1172.3	1144.6	1138.3	1143.1
37.5°	3843.1	3835.2	3330.4	2207.1	1454.3	1207.0	1110.7	1068.0	1027.7	1005.6	1006.4
40°	4108.5	4100.6	3428.4	2130.5	1312.9	1118.6	1026.1	970.1	920.3	880.0	884.0
42.5°	4407.1	4360.5	3475.0	2020.7	1192.8	1043.5	957.4	881.6	816.0	778.9	781.3
45°	4733.4	4628.3	3474.2	1880.9	1091.7	974.8	884.0	776.5	715.7	680.9	679.4
47.5°	5079.4	4884.2	3431.5	1726.0	993.8	899.0	770.2	688.0	647.8	626.4	621.7
50°	5436.4	5123.6	3358.9	1548.3	893.4	812.9	699.1	643.0	612.2	592.5	585.4
52.5°	5772.1	5340.8	3271.2	1346.9	791.5	729.1	667.5	624.1	591.7	569.6	560.1
55°	6084.2	5528.1	3147.2	1140.7	708.6	673.0	652.5	616.2	579.0	553.0	542.7
57.5°	6361.5	5649.7	2933.1	947.1	649.3	634.3	636.7	602.7	560.1	538.0	523.7
60°	6592.1	5739.0	2616.3	767.8	601.2	596.4	612.2	577.5	527.7	502.4	491.3
62.5°	6730.4	5737.4	2227.7	628.8	560.1	561.7	579.8	545.9	495.3	471.6	464.5
65°	6718.5	5596.8	1801.1	538.0	520.6	522.2	545.9	511.1	468.4	454.2	453.4
67.5°	6480.7	5253.9	1381.6	478.7	477.1	484.2	511.9	487.4	451.9	450.3	452.6
70°	5836.9	4542.2	995.3	431.3	432.1	442.4	478.7	472.4	443.2	446.3	445.5
72.5°	4680.4	3463.1	668.3	381.5	382.3	398.9	447.1	460.5	434.5	476.3	482.7
75°	3117.1	2159.7	429.7	328.6	329.4	350.7	419.5	437.6	410.8	474.8	478.7
77.5°	1497.7	970.8	311.2	276.5	276.5	296.2	362.6	391.8	349.9	368.9	338.1
80°	517.4	365.0	244.9	222.8	218.0	231.5	305.7	339.7	301.8	278.1	260.7
82.5°	203.8	189.6	196.7	173.0	157.2	165.9	237.8	280.4	222.0	200.6	199.9
85°	116.9	123.2	139.0	114.5	90.8	101.9	174.6	201.4	167.5	147.7	150.9
87.5°	31.6	43.4	64.0	59.2	41.1	43.4	82.9	111.4	96.4	74.3	76.6
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)