

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: P964206

Luminaire Tested: **NAV-SB3B-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-830-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15380.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

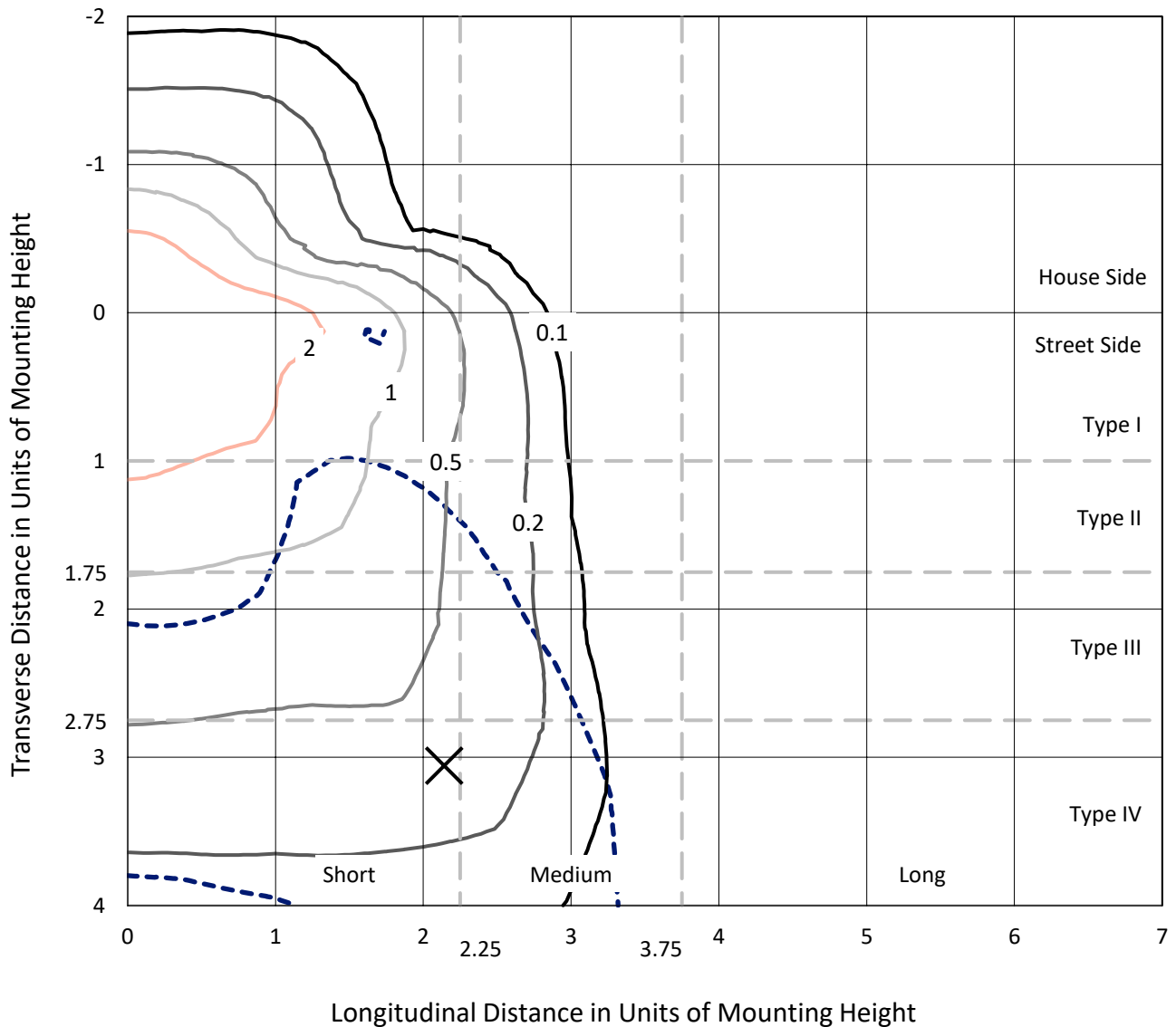
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

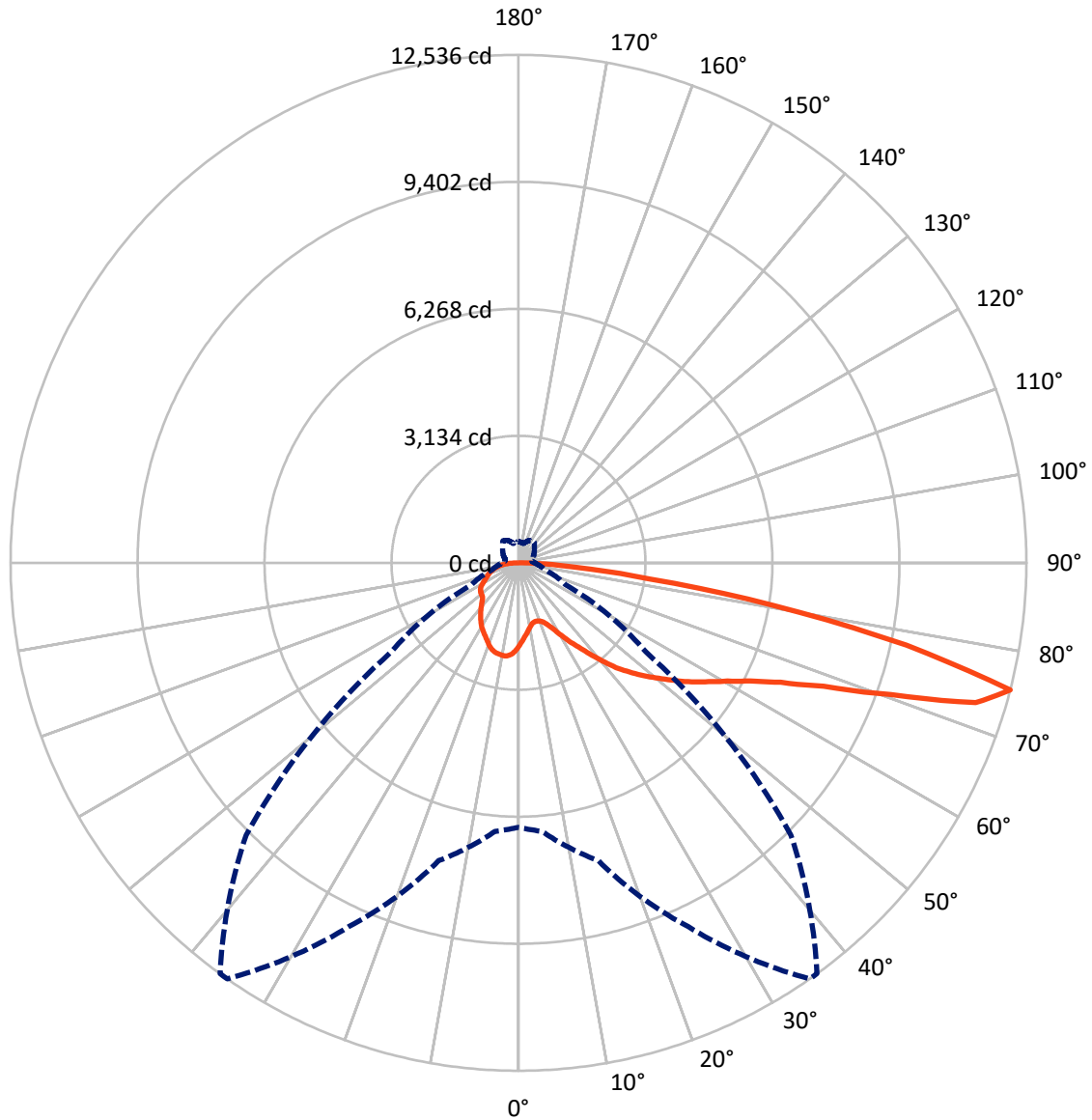
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3660.1	0.0	3660.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11720.0	0.0	11720.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	15380.1	0.0	15380.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	1.3
10°-20°	559.7	3.6
20°-30°	939.9	6.1
30°-40°	1460.7	9.5
40°-50°	2168.1	14.1
50°-60°	2993.2	19.5
60°-70°	3631.5	23.6
70°-80°	3001.2	19.5
80°-90°	431.7	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°	15380.1	100.0
0°-180°	15380.1	100.0

**Coefficient of Utilization**



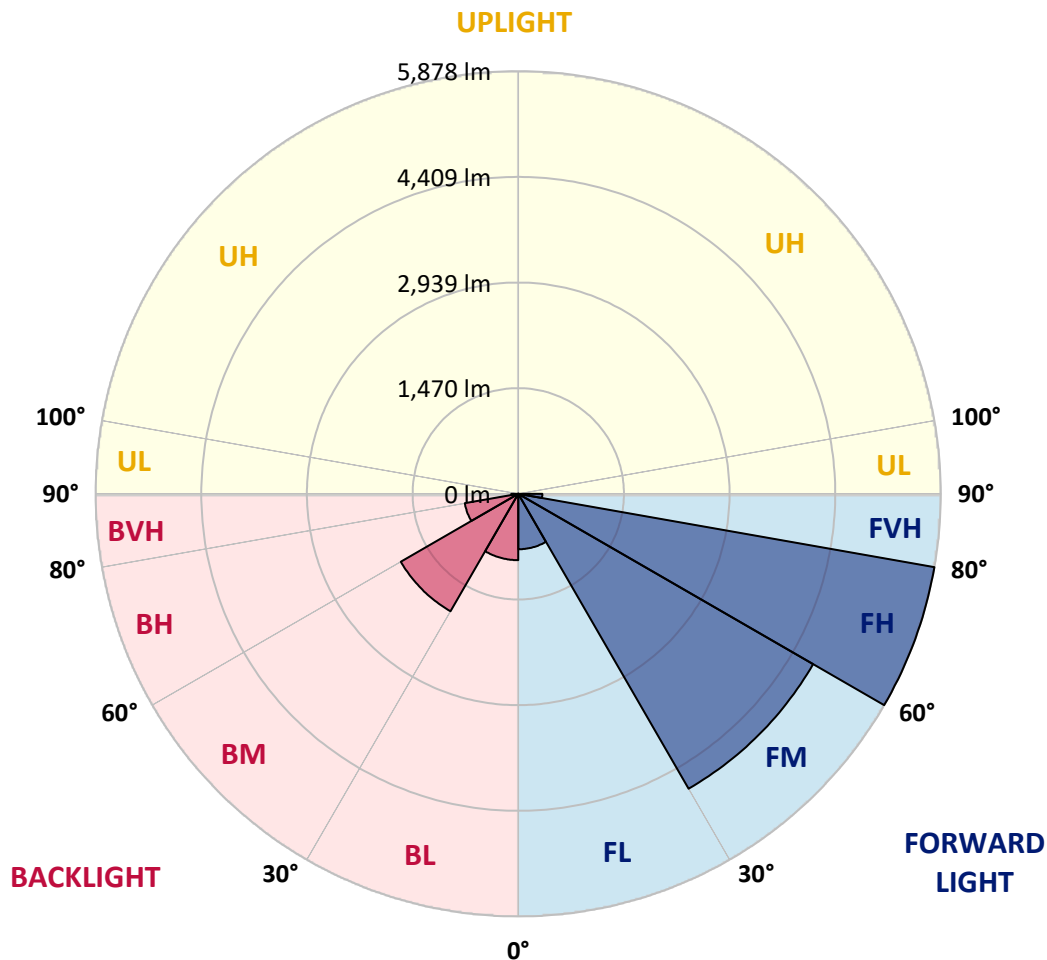
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.3	5.0			
FM (30°-60°)	4736.2	30.8			
FH (60°-80°)	5878.0	38.2			G3/7500
FVH (80°-90°)	334.5	2.2			G3/500
BL (0°-30°)	922.4	6.0	B2/1000		
BM (30°-60°)	1885.9	12.3	B2/2500		
BH (60°-80°)	754.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	97.2	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°	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5
2.5°	1889.9	1901.5	1906.5	1904.0	1916.4	1914.8	1932.2	1953.9	1983.8	2012.9	2055.3
5°	1744.3	1756.8	1767.6	1777.7	1801.7	1809.2	1836.7	1878.2	1933.2	1988.8	2058.6
7.5°	1608.8	1619.6	1636.3	1654.6	1695.4	1702.8	1748.5	1813.3	1889.9	1971.4	2067.8
10°	1498.2	1509.1	1526.5	1547.3	1598.1	1607.2	1665.4	1751.8	1851.7	1954.7	2077.8
12.5°	1450.9	1454.2	1464.2	1484.9	1529.0	1534.8	1598.9	1697.8	1814.2	1942.3	2092.7
15°	1448.3	1455.0	1455.8	1466.7	1503.3	1505.7	1564.8	1662.9	1790.9	1939.7	2115.2
17.5°	1473.3	1478.3	1470.8	1477.4	1508.3	1512.4	1558.9	1646.3	1783.4	1950.6	2153.4
20°	1539.9	1544.0	1521.5	1512.4	1534.8	1538.2	1583.9	1657.0	1790.9	1973.0	2205.8
22.5°	1681.2	1683.7	1628.8	1591.4	1593.1	1594.7	1634.6	1701.1	1820.0	2013.7	2272.3
25°	1901.5	1899.8	1812.5	1740.2	1698.6	1689.5	1716.1	1772.6	1869.1	2067.8	2358.0
27.5°	2159.3	2146.8	2059.5	1951.4	1860.8	1847.5	1841.6	1865.8	1938.9	2139.3	2462.8
30°	2450.3	2438.6	2344.7	2203.3	2077.8	2056.1	2001.3	1988.8	2042.8	2236.5	2608.2
32.5°	2769.5	2762.1	2649.8	2478.6	2310.6	2285.6	2193.3	2160.1	2202.5	2383.7	2811.1
35°	3037.3	3030.6	2937.4	2761.2	2555.8	2525.1	2431.1	2393.7	2415.3	2572.4	3076.3
37.5°	3279.2	3275.9	3196.1	3057.2	2845.2	2807.8	2702.2	2689.7	2685.6	2821.1	3398.1
40°	3503.7	3495.4	3412.2	3339.0	3181.9	3147.9	3054.7	3043.9	3012.3	3127.1	3762.3
42.5°	3752.3	3730.7	3610.2	3576.0	3533.6	3505.4	3449.6	3451.3	3381.5	3472.1	4148.1
45°	3955.2	3942.7	3818.8	3798.9	3844.6	3833.0	3881.2	3893.7	3758.2	3833.8	4548.8
47.5°	4173.0	4161.4	4056.6	4042.5	4166.3	4169.7	4340.2	4344.3	4125.6	4209.6	4950.4
50°	4441.5	4424.9	4321.0	4338.5	4477.3	4489.8	4801.6	4773.3	4464.0	4591.2	5348.7
52.5°	4618.6	4628.6	4606.1	4634.4	4824.1	4835.6	5255.6	5183.2	4799.0	4967.9	5739.5
55°	4749.2	4769.1	4839.0	4903.8	5189.9	5201.5	5683.7	5573.1	5076.8	5317.1	6107.0
57.5°	4917.1	4888.8	5019.4	5145.8	5537.4	5568.2	6100.3	5949.0	5322.9	5618.0	6358.9
60°	5158.3	5138.3	5239.8	5426.9	5926.5	5975.5	6540.9	6287.3	5503.3	5856.6	6407.9
62.5°	5647.1	5597.3	5613.1	5778.5	6417.1	6481.9	7038.2	6582.6	5593.1	5949.8	6145.2
65°	6378.0	6292.4	6212.5	6327.3	7108.0	7172.0	7599.4	6814.5	5559.8	5769.4	5447.6
67.5°	7298.4	7213.6	7115.4	7223.6	8125.7	8176.4	8291.9	6945.0	5297.9	5074.3	4214.6
70°	8057.5	8026.0	8143.1	8588.0	9751.1	9752.8	9180.0	6837.0	4580.4	3597.6	2438.6
72.5°	7956.9	7937.8	8555.6	9930.7	11799.8	11755.7	10020.5	6018.8	3085.5	1623.0	913.8
75°	6527.6	6651.5	7608.6	9906.6	12535.6	12529.8	9505.8	3826.3	1276.2	672.6	472.2
77.5°	3500.4	3696.6	4939.6	7314.2	9786.1	9933.3	6683.1	1338.6	548.0	430.7	326.8
80°	1141.5	1312.8	1968.8	3724.0	6358.9	6331.4	2864.4	525.5	374.9	305.1	226.1
82.5°	484.7	504.7	879.7	1758.5	3263.4	3212.7	912.0	301.9	263.5	208.7	139.7
85°	189.5	212.0	388.3	813.1	1413.5	1382.7	329.2	149.6	168.8	136.3	83.1
87.5°	62.3	75.6	138.9	278.5	439.8	424.0	80.7	51.6	73.2	62.3	29.9
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°	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5
2.5°	2067.0	2080.2	2096.0	2119.4	2139.3	2155.9	2173.4	2184.2	2188.4	2200.8	2200.0
5°	2082.0	2111.0	2150.1	2188.4	2225.8	2248.2	2268.2	2278.2	2287.3	2294.0	2295.6
7.5°	2106.9	2144.3	2205.8	2255.7	2287.3	2305.6	2318.9	2315.6	2318.9	2320.6	2323.1
10°	2128.5	2180.9	2254.1	2301.4	2325.5	2326.3	2323.1	2311.4	2305.6	2306.5	2308.1
12.5°	2154.2	2212.5	2291.5	2331.4	2338.0	2319.7	2305.6	2285.6	2278.2	2274.8	2273.1
15°	2189.2	2255.7	2332.2	2347.1	2330.5	2307.3	2283.2	2250.7	2234.1	2220.8	2225.0
17.5°	2231.6	2304.7	2363.8	2353.0	2317.2	2279.0	2239.9	2190.8	2156.8	2142.7	2143.5
20°	2290.7	2356.3	2387.9	2340.5	2286.5	2228.2	2161.7	2101.9	2070.3	2056.1	2054.5
22.5°	2362.1	2425.4	2411.2	2318.9	2242.4	2149.3	2066.1	2022.0	2006.2	1996.3	1997.9
25°	2447.8	2501.8	2427.8	2287.3	2170.0	2044.6	1980.5	1966.4	1958.9	1951.4	1951.4
27.5°	2559.2	2588.3	2440.3	2240.8	2057.0	1933.2	1909.8	1912.3	1909.8	1897.4	1899.8
30°	2706.3	2700.6	2451.9	2165.1	1927.3	1832.5	1834.1	1845.0	1846.6	1838.3	1842.4
32.5°	2900.0	2841.0	2457.7	2067.0	1803.4	1744.3	1746.0	1757.7	1766.0	1751.8	1758.5
35°	3134.6	3004.8	2448.6	1943.9	1707.8	1660.4	1647.9	1651.3	1653.7	1640.4	1649.5
37.5°	3408.1	3188.6	2407.8	1807.6	1628.8	1578.1	1551.4	1529.0	1515.8	1503.3	1511.6
40°	3708.2	3389.0	2333.0	1674.5	1540.7	1490.8	1450.9	1408.5	1363.6	1347.0	1354.4
42.5°	4022.5	3595.2	2242.4	1547.3	1439.2	1398.5	1356.1	1294.6	1227.2	1193.1	1197.3
45°	4348.5	3806.3	2153.4	1421.8	1335.3	1317.8	1268.7	1194.7	1121.7	1078.4	1075.0
47.5°	4667.7	4005.9	2022.9	1295.4	1238.0	1257.2	1218.9	1150.8	1069.3	1001.0	993.5
50°	4972.9	4193.0	1809.2	1167.4	1159.1	1238.8	1202.2	1104.1	1011.1	923.7	916.2
52.5°	5275.5	4344.3	1535.7	1050.9	1116.6	1233.9	1180.7	1072.6	958.7	867.2	857.2
55°	5532.4	4422.5	1272.1	951.2	1055.1	1191.5	1154.9	1035.1	884.7	787.4	779.1
57.5°	5678.7	4359.2	1052.6	853.1	970.3	1121.7	1110.8	955.3	796.5	721.7	711.8
60°	5615.6	4103.2	873.0	767.4	889.6	1045.9	1034.3	876.4	729.2	658.5	648.5
62.5°	5267.2	3615.1	730.8	692.6	816.5	968.6	957.9	815.7	677.6	609.5	598.6
65°	4565.5	2940.8	620.2	630.3	742.5	875.6	891.3	765.0	636.9	570.4	559.5
67.5°	3482.1	2130.2	533.8	576.2	670.1	784.0	829.7	728.4	602.8	539.6	529.6
70°	1984.6	1209.7	460.6	523.8	606.1	699.3	782.4	699.3	566.2	513.8	507.2
72.5°	752.5	555.4	398.2	471.4	544.6	627.7	730.0	653.5	523.8	484.7	478.1
75°	401.6	338.4	335.1	409.9	474.0	557.9	664.3	608.6	492.2	512.2	528.8
77.5°	273.6	239.4	280.2	350.9	396.6	480.6	594.5	540.5	426.5	424.9	391.7
80°	189.5	169.6	227.9	282.7	306.8	404.1	518.9	463.9	347.6	324.3	310.2
82.5°	113.9	110.6	170.5	211.2	217.0	311.8	429.9	389.1	284.3	247.7	249.4
85°	62.3	65.7	109.0	123.9	126.4	217.8	336.7	300.9	218.6	183.8	185.4
87.5°	17.4	22.4	39.9	49.1	60.7	113.1	200.4	178.8	109.8	76.5	76.5
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)