

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: P962470

Luminaire Tested: **NAV-SB2C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962470
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-SB2C-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15173.1 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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



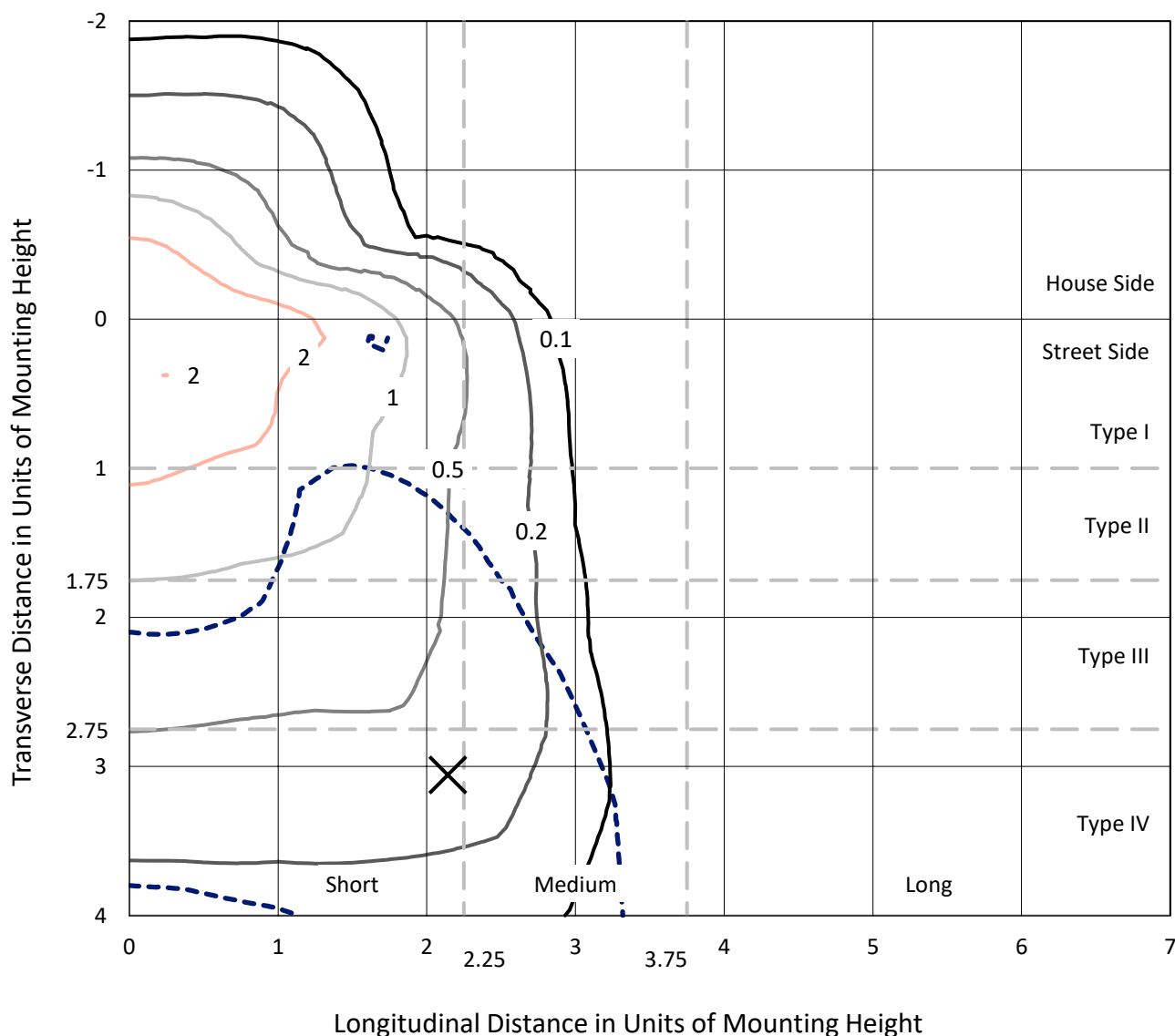
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

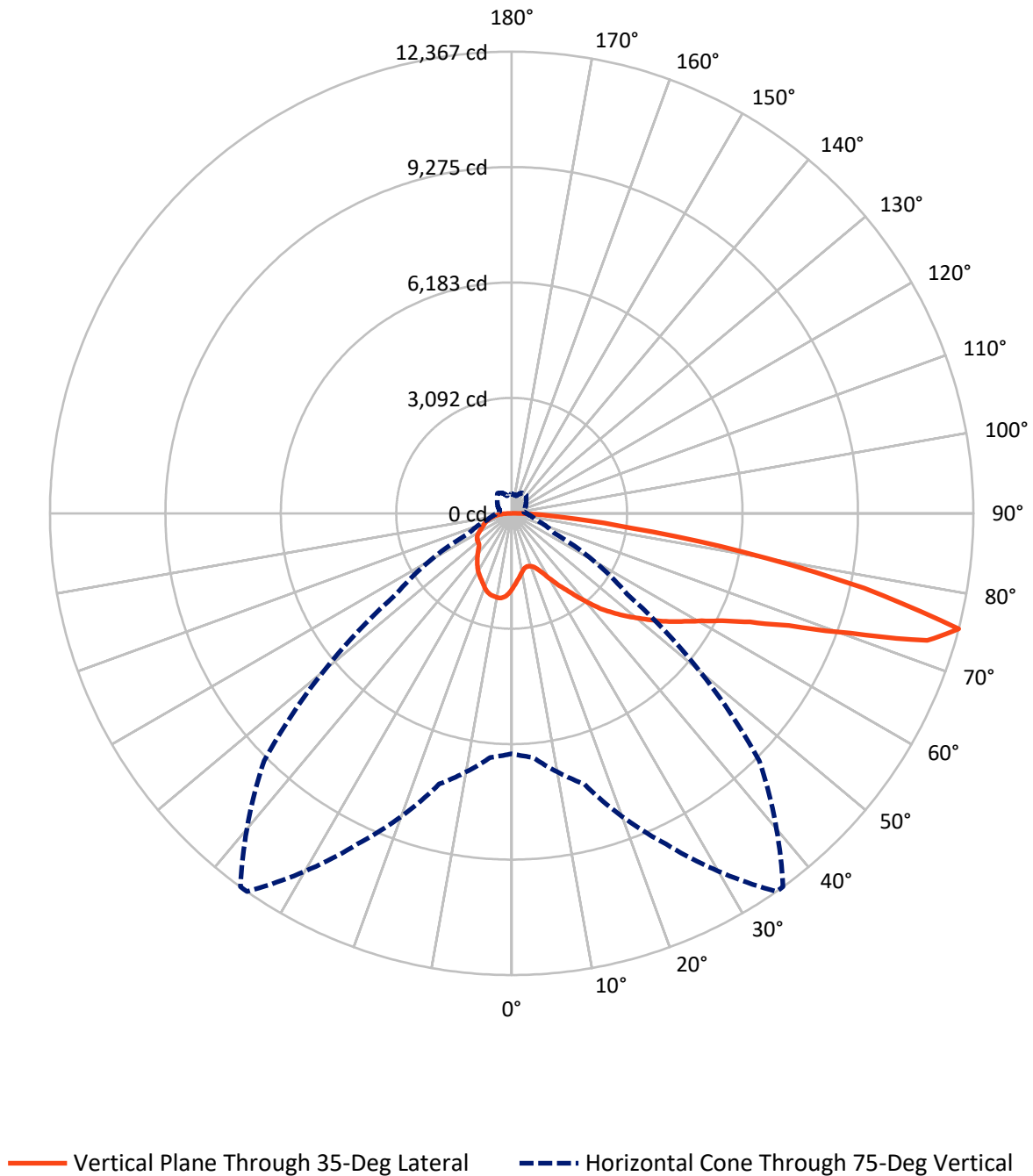


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3610.8	0.0	3610.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11562.3	0.0	11562.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	15173.1	0.0	15173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.3
10°-20°	552.2	3.6
20°-30°	927.3	6.1
30°-40°	1441.1	9.5
40°-50°	2138.9	14.1
50°-60°	2953.0	19.5
60°-70°	3582.6	23.6
70°-80°	2960.8	19.5
80°-90°	425.8	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°	15173.1	100.0
0°-180°	15173.1	100.0

Coefficient of Utilization



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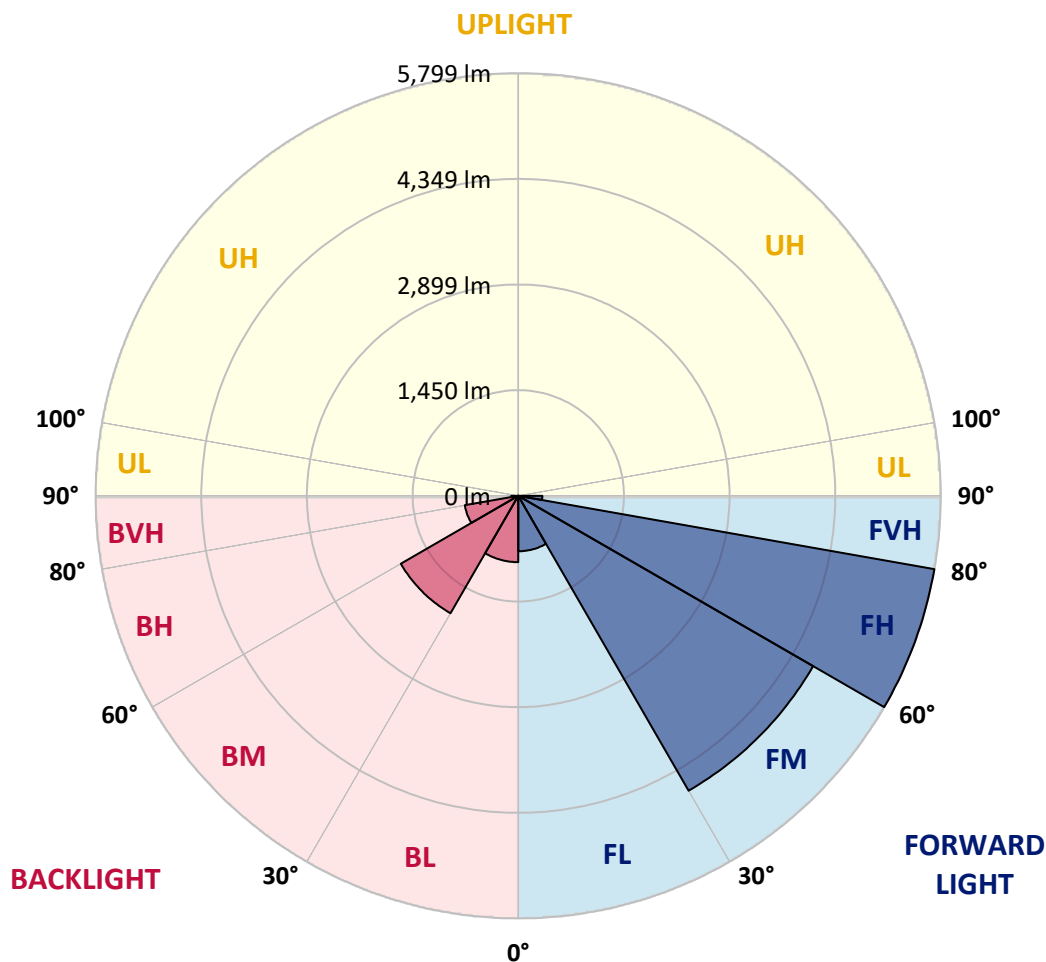
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	760.9	5.0			
FM	(30°-60°)	4672.5	30.8			
FH	(60°-80°)	5798.9	38.2			G3/7500
FVH	(80°-90°)	329.9	2.2			G3/500
BL	(0°-30°)	910.0	6.0	B2/1000		
BM	(30°-60°)	1860.5	12.3	B2/2500		
BH	(60°-80°)	744.4	4.9	B2/1000		G2/1000
BVH	(80°-90°)	95.9	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°	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9
2.5°	1864.5	1876.0	1880.9	1878.4	1890.7	1889.1	1906.3	1927.6	1957.1	1985.8	2027.7
5°	1720.9	1733.2	1743.8	1753.7	1777.5	1784.8	1811.9	1852.9	1907.1	1962.1	2030.9
7.5°	1587.2	1597.9	1614.3	1632.3	1672.5	1679.9	1725.0	1788.9	1864.5	1944.8	2040.0
10°	1478.0	1488.7	1505.9	1526.5	1576.6	1585.6	1643.0	1728.3	1826.7	1928.4	2049.8
12.5°	1431.3	1434.6	1444.4	1464.9	1508.4	1514.1	1577.4	1675.0	1789.8	1916.1	2064.6
15°	1428.8	1435.4	1436.2	1446.9	1483.0	1485.4	1543.8	1640.5	1766.8	1913.7	2086.7
17.5°	1453.4	1458.4	1451.0	1457.6	1487.9	1492.0	1538.0	1624.1	1759.4	1924.3	2124.4
20°	1519.2	1523.3	1501.0	1492.0	1514.1	1517.5	1562.6	1634.8	1766.8	1946.5	2176.1
22.5°	1658.6	1661.0	1606.9	1570.0	1571.6	1573.3	1612.6	1678.2	1795.5	1986.7	2241.8
25°	1876.0	1874.3	1788.1	1716.8	1675.8	1666.8	1693.0	1748.8	1843.9	2040.0	2326.2
27.5°	2130.2	2117.9	2031.8	1925.2	1835.7	1822.6	1816.8	1840.6	1912.9	2110.5	2429.6
30°	2417.3	2405.8	2313.1	2173.6	2049.8	2028.5	1974.4	1962.1	2015.4	2206.5	2573.2
32.5°	2732.2	2724.9	2614.2	2445.1	2279.5	2254.9	2163.8	2131.0	2172.8	2351.7	2773.2
35°	2996.4	2989.8	2898.0	2724.0	2521.4	2491.1	2398.4	2361.5	2382.8	2537.9	3034.9
37.5°	3235.1	3231.8	3153.0	3016.1	2806.9	2770.0	2665.8	2653.5	2649.4	2783.1	3352.4
40°	3456.5	3448.3	3366.3	3294.1	3139.1	3105.4	3013.6	3002.9	2971.8	3084.9	3711.6
42.5°	3701.8	3680.5	3561.6	3527.8	3486.0	3458.1	3403.2	3404.8	3336.0	3425.3	4092.2
45°	3902.0	3889.7	3767.4	3747.7	3792.8	3781.3	3828.9	3841.2	3707.5	3782.1	4487.6
47.5°	4116.8	4105.3	4002.0	3988.1	4110.2	4113.5	4281.7	4285.8	4070.1	4152.9	4883.7
50°	4381.8	4365.4	4262.9	4280.1	4417.0	4429.3	4736.9	4709.1	4403.9	4529.4	5276.7
52.5°	4556.5	4566.4	4544.1	4572.1	4759.1	4770.6	5184.8	5113.4	4734.5	4901.0	5662.2
55°	4685.3	4705.0	4773.8	4837.8	5120.0	5131.5	5607.3	5498.1	5008.5	5245.5	6024.7
57.5°	4850.9	4823.0	4951.9	5076.5	5462.8	5493.2	6018.2	5868.8	5251.3	5542.4	6273.3
60°	5088.8	5069.1	5169.2	5353.8	5846.7	5895.1	6452.9	6202.7	5429.2	5777.8	6321.7
62.5°	5571.2	5521.9	5537.5	5700.7	6330.7	6394.7	6943.5	6493.9	5517.8	5869.7	6062.5
65°	6292.2	6207.6	6128.9	6242.1	7012.3	7075.5	7497.1	6722.8	5485.0	5691.7	5374.3
67.5°	7200.1	7116.5	7019.7	7126.3	8016.3	8066.3	8180.3	6851.5	5226.7	5006.0	4157.8
70°	7949.1	7917.8	8033.5	8472.3	9619.9	9621.6	9056.4	6744.9	4518.7	3549.3	2405.8
72.5°	7849.8	7830.9	8440.4	9797.1	11641.0	11597.5	9885.6	5937.8	3043.9	1601.2	901.5
75°	6439.8	6561.9	7506.1	9773.3	12366.9	12361.2	9377.9	3774.8	1259.1	663.6	465.9
77.5°	3453.2	3646.8	4873.1	7215.7	9654.4	9799.5	6593.2	1320.6	540.6	424.9	322.4
80°	1126.2	1295.2	1942.4	3673.9	6273.3	6246.2	2825.7	518.4	369.9	301.0	223.1
82.5°	478.2	497.8	867.9	1734.8	3219.5	3169.4	899.8	297.8	260.0	205.9	137.8
85°	187.1	209.2	383.0	802.2	1394.4	1364.1	324.8	147.6	166.5	134.5	82.0
87.5°	61.5	74.6	136.9	274.8	433.9	418.3	79.5	50.8	72.2	61.5	29.5
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°	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9	2021.9
2.5°	2039.1	2052.3	2067.8	2090.8	2110.5	2126.9	2144.1	2154.8	2158.9	2171.2	2170.3
5°	2053.9	2082.6	2121.1	2158.9	2195.9	2218.0	2237.7	2247.5	2256.5	2263.1	2264.7
7.5°	2078.5	2115.4	2176.1	2225.4	2256.5	2274.6	2287.7	2284.4	2287.7	2289.3	2291.8
10°	2099.8	2151.5	2223.7	2270.5	2294.3	2295.1	2291.8	2280.3	2274.6	2275.4	2277.0
12.5°	2125.2	2182.6	2260.6	2300.0	2306.6	2288.5	2274.6	2254.9	2247.5	2244.2	2242.6
15°	2159.7	2225.4	2300.8	2315.6	2299.2	2276.2	2252.4	2220.5	2204.1	2190.9	2195.0
17.5°	2201.6	2273.8	2332.0	2321.3	2286.1	2248.3	2209.8	2161.3	2127.7	2113.8	2114.6
20°	2259.8	2324.6	2355.8	2309.0	2255.7	2198.3	2132.6	2073.6	2042.4	2028.5	2026.8
22.5°	2330.3	2392.7	2378.7	2287.7	2212.3	2120.3	2038.3	1994.9	1979.3	1969.4	1971.1
25°	2414.8	2468.1	2395.1	2256.5	2140.8	2017.0	1953.9	1939.9	1932.5	1925.2	1925.2
27.5°	2524.7	2553.5	2407.4	2210.6	2029.3	1907.1	1884.2	1886.6	1884.2	1871.9	1874.3
30°	2669.9	2664.2	2418.9	2135.9	1901.4	1807.8	1809.4	1820.1	1821.7	1813.5	1817.6
32.5°	2861.0	2802.8	2424.6	2039.1	1779.1	1720.9	1722.5	1734.0	1742.2	1728.3	1734.8
35°	3092.3	2964.4	2415.6	1917.8	1684.8	1638.1	1625.8	1629.0	1631.5	1618.4	1627.4
37.5°	3362.2	3145.6	2375.4	1783.2	1606.9	1556.9	1530.6	1508.4	1495.3	1483.0	1491.2
40°	3658.3	3343.3	2301.6	1652.0	1520.0	1470.7	1431.3	1389.5	1345.2	1328.8	1336.2
42.5°	3968.4	3546.8	2212.3	1526.5	1419.8	1379.6	1337.8	1277.1	1210.7	1177.0	1181.2
45°	4289.9	3755.1	2124.4	1402.6	1317.3	1300.1	1251.7	1178.6	1106.5	1063.8	1060.6
47.5°	4604.9	3952.0	1995.7	1278.0	1221.4	1240.2	1202.5	1135.2	1054.8	987.6	980.2
50°	4906.0	4136.5	1784.8	1151.6	1143.4	1222.2	1186.1	1089.3	997.4	911.3	903.9
52.5°	5204.4	4285.8	1514.9	1036.8	1101.6	1217.3	1164.7	1058.1	945.8	855.6	845.7
55°	5457.9	4362.9	1255.0	938.4	1040.9	1175.4	1139.3	1021.2	872.8	776.7	768.5
57.5°	5602.3	4300.6	1038.4	841.5	957.2	1106.5	1095.8	942.5	785.8	712.0	702.1
60°	5539.9	4047.9	861.3	757.1	877.7	1031.9	1020.4	864.6	719.3	649.6	639.8
62.5°	5196.2	3566.5	721.0	683.3	805.4	955.6	944.9	804.6	668.5	601.3	590.6
65°	4504.0	2901.3	611.9	621.8	732.5	863.8	879.3	754.6	628.3	562.7	552.1
67.5°	3435.2	2101.5	526.6	568.5	661.1	773.5	818.6	718.5	594.7	532.4	522.5
70°	1958.0	1193.5	454.4	516.8	598.0	689.8	771.8	689.8	558.6	507.0	500.3
72.5°	742.3	548.0	392.9	465.0	537.3	619.3	720.2	644.7	516.8	478.2	471.6
75°	396.2	333.8	330.6	404.4	467.5	550.4	655.4	600.4	485.5	505.2	521.7
77.5°	269.9	236.3	276.4	346.1	391.2	474.1	586.5	533.2	420.8	419.1	386.3
80°	187.1	167.3	224.8	278.9	302.7	398.6	511.9	457.7	342.9	319.9	306.0
82.5°	112.3	109.1	168.1	208.4	214.1	307.6	424.0	383.9	280.5	244.5	246.1
85°	61.5	64.8	107.4	122.2	124.6	214.9	332.2	296.9	215.8	181.3	183.0
87.5°	17.2	22.1	39.4	48.4	59.9	111.5	197.7	176.4	108.2	75.4	75.4
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)