

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: P962501

Luminaire Tested: **NAV-SB2C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962501
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-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16052.5 lumens
Efficiency: N/A
Efficacy: 159.1 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



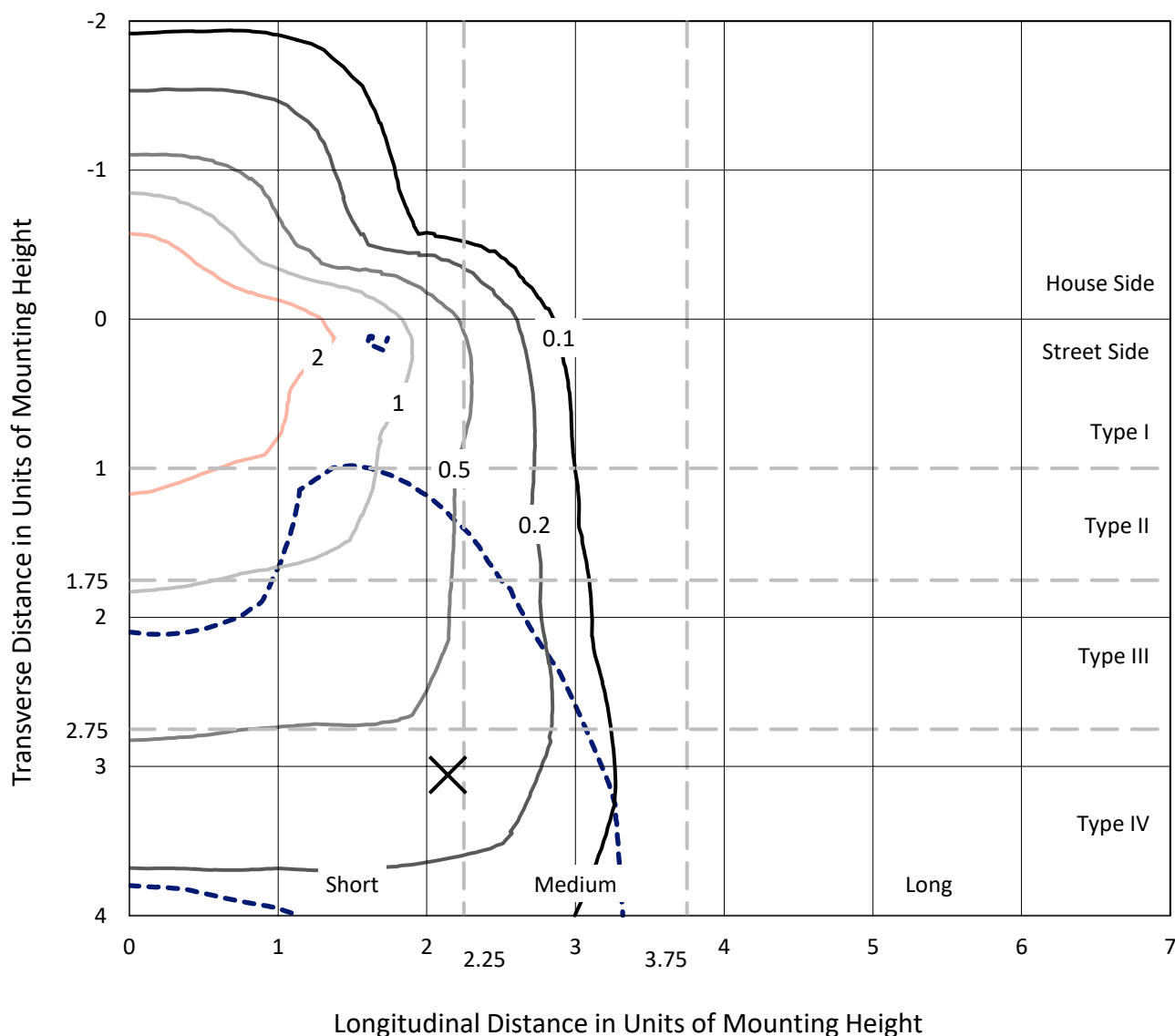
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

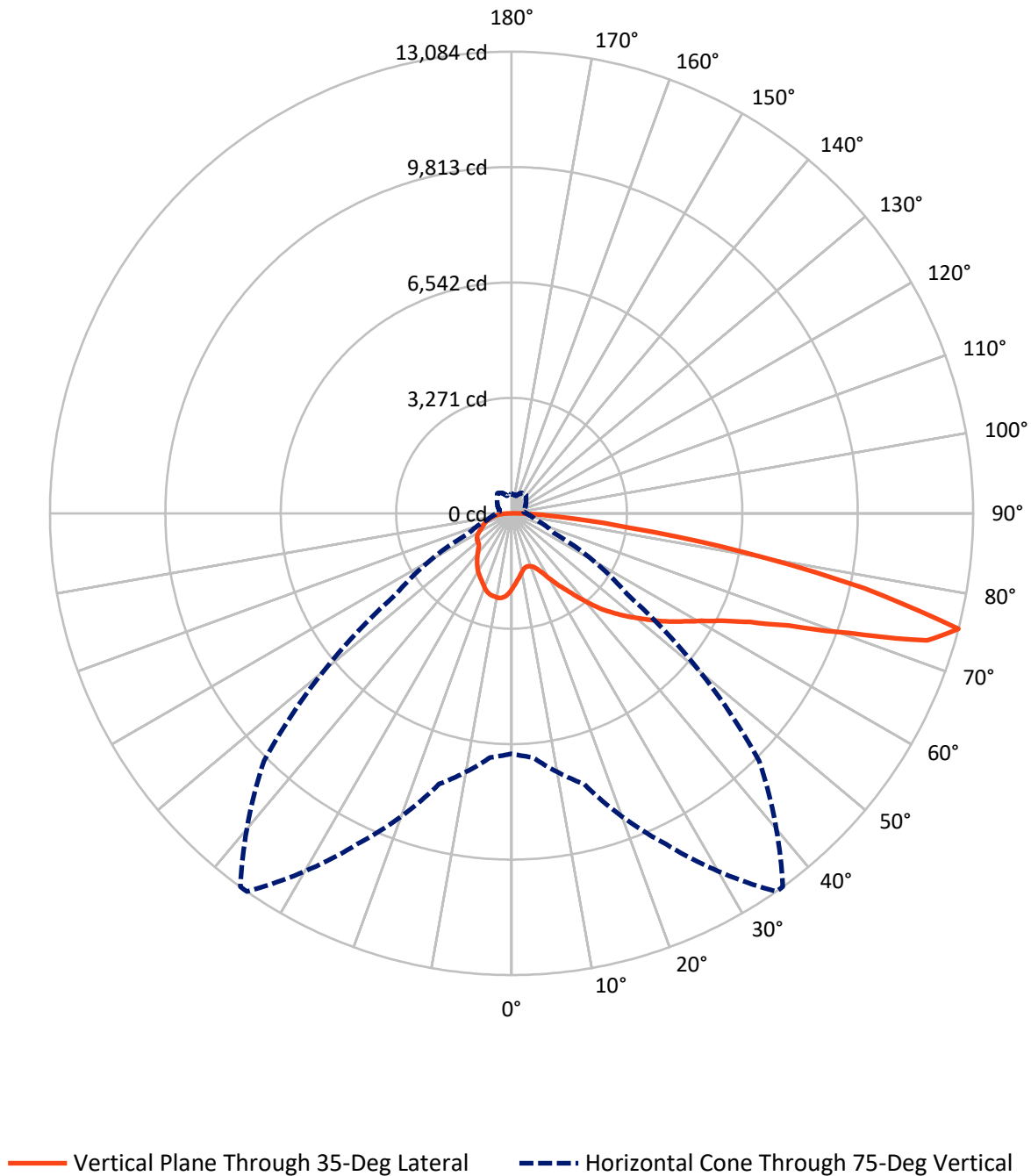


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

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	3820.1	0.0	3820.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12232.4	0.0	12232.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	16052.5	0.0	16052.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.3
10°-20°	584.2	3.6
20°-30°	981.0	6.1
30°-40°	1524.6	9.5
40°-50°	2262.9	14.1
50°-60°	3124.1	19.5
60°-70°	3790.3	23.6
70°-80°	3132.4	19.5
80°-90°	450.5	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°	16052.5	100.0
0°-180°	16052.5	100.0

Coefficient of Utilization



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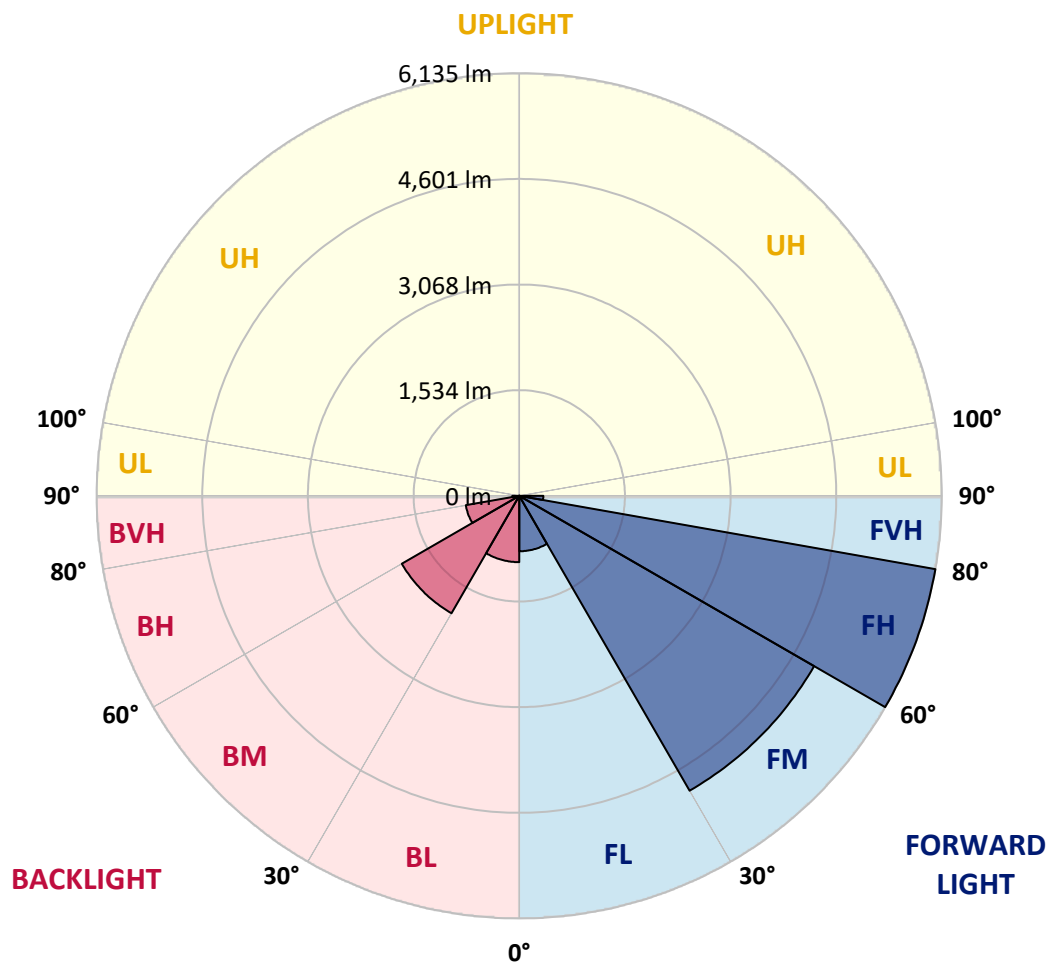
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.0	5.0			
FM	(30°-60°)	4943.3	30.8			
FH	(60°-80°)	6135.0	38.2			G3/7500
FVH	(80°-90°)	349.1	2.2			G3/500
BL	(0°-30°)	962.7	6.0	B2/1000		
BM	(30°-60°)	1968.3	12.3	B2/2500		
BH	(60°-80°)	787.6	4.9	B2/1000		G2/1000
BVH	(80°-90°)	101.4	0.6			G2/225
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°	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1
2.5°	1972.5	1984.6	1989.8	1987.3	2000.3	1998.5	2016.8	2039.3	2070.6	2100.9	2145.2
5°	1820.6	1833.6	1844.9	1855.4	1880.5	1888.4	1917.0	1960.3	2017.6	2075.7	2148.6
7.5°	1679.2	1690.4	1707.9	1726.9	1769.5	1777.2	1825.0	1892.7	1972.5	2057.6	2158.2
10°	1563.7	1575.0	1593.3	1615.0	1667.9	1677.4	1738.2	1828.4	1932.5	2040.2	2168.6
12.5°	1514.3	1517.7	1528.2	1549.9	1595.8	1602.0	1668.8	1772.0	1893.5	2027.1	2184.3
15°	1511.7	1518.6	1519.5	1530.7	1569.0	1571.5	1633.2	1735.6	1869.2	2024.6	2207.6
17.5°	1537.7	1542.9	1535.1	1542.1	1574.2	1578.5	1627.1	1718.2	1861.4	2035.9	2247.6
20°	1607.2	1611.5	1588.0	1578.5	1602.0	1605.5	1653.1	1729.5	1869.2	2059.2	2302.3
22.5°	1754.7	1757.3	1700.0	1660.9	1662.7	1664.4	1706.1	1775.5	1899.6	2101.8	2371.6
25°	1984.6	1982.9	1891.7	1816.3	1772.9	1763.3	1791.1	1850.1	1950.8	2158.2	2461.0
27.5°	2253.7	2240.6	2149.5	2036.7	1942.1	1928.2	1922.2	1947.3	2023.7	2232.9	2570.4
30°	2557.4	2545.3	2447.2	2299.7	2168.6	2146.0	2088.7	2075.7	2132.2	2334.3	2722.3
32.5°	2890.6	2882.8	2765.7	2586.9	2411.6	2385.6	2289.2	2254.5	2298.8	2488.0	2934.0
35°	3170.0	3163.1	3065.9	2881.9	2667.6	2635.5	2537.4	2498.3	2520.9	2685.0	3210.8
37.5°	3422.6	3419.1	3335.8	3190.8	2969.6	2930.6	2820.3	2807.3	2803.0	2944.4	3546.7
40°	3656.9	3648.2	3561.5	3485.1	3321.0	3285.4	3188.3	3177.0	3144.0	3263.8	3926.8
42.5°	3916.3	3893.8	3768.0	3732.3	3688.2	3658.6	3600.5	3602.2	3529.3	3623.9	4329.4
45°	4128.1	4115.1	3985.8	3964.9	4012.7	4000.5	4050.9	4063.9	3922.5	4001.4	4747.7
47.5°	4355.4	4343.3	4234.0	4219.2	4348.5	4351.9	4529.9	4534.2	4306.0	4393.7	5166.8
50°	4635.8	4618.3	4509.9	4528.1	4673.1	4686.1	5011.5	4982.0	4659.1	4792.0	5582.5
52.5°	4820.6	4831.0	4807.6	4837.1	5034.9	5047.1	5485.3	5409.8	5008.9	5185.1	5990.4
55°	4956.8	4977.6	5050.6	5118.2	5416.7	5428.9	5932.2	5816.8	5298.7	5549.6	6374.0
57.5°	5132.1	5102.7	5238.9	5370.8	5779.5	5811.6	6367.0	6209.0	5555.6	5863.7	6636.9
60°	5383.8	5363.0	5468.8	5664.0	6185.7	6236.8	6826.9	6562.3	5743.9	6112.7	6688.1
62.5°	5894.1	5842.0	5858.5	6031.2	6697.7	6765.3	7345.9	6870.3	5837.7	6210.0	6413.8
65°	6656.9	6567.5	6484.2	6603.9	7418.7	7485.6	7931.7	7112.5	5802.9	6021.6	5685.8
67.5°	7617.5	7528.9	7426.5	7539.4	8481.0	8533.8	8654.5	7248.7	5529.6	5296.2	4398.8
70°	8409.8	8376.8	8499.2	8963.4	10177.4	10179.2	9581.3	7135.8	4780.7	3755.0	2545.3
72.5°	8304.8	8284.8	8929.6	10364.9	12315.7	12269.8	10458.6	6281.9	3220.3	1693.9	953.7
75°	6813.1	6942.3	7941.2	10339.8	13083.7	13077.7	9921.5	3993.6	1332.1	702.0	492.9
77.5°	3653.4	3858.2	5155.5	7634.0	10213.9	10367.5	6975.3	1397.2	571.8	449.6	341.0
80°	1191.5	1370.2	2054.9	3886.8	6636.9	6608.3	2989.5	548.5	391.3	318.5	236.1
82.5°	505.9	526.7	918.1	1835.4	3406.1	3353.2	951.9	315.0	275.1	217.8	145.8
85°	197.8	221.3	405.3	848.7	1475.3	1443.1	343.7	156.2	176.2	142.3	86.8
87.5°	65.1	78.9	144.9	290.7	459.1	442.6	84.2	53.8	76.4	65.1	31.3
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°	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1	2139.1
2.5°	2157.3	2171.3	2187.7	2212.1	2232.9	2250.2	2268.4	2279.7	2284.0	2297.0	2296.2
5°	2173.0	2203.3	2244.1	2284.0	2323.1	2346.5	2367.3	2377.8	2387.3	2394.2	2395.9
7.5°	2199.0	2238.0	2302.3	2354.3	2387.3	2406.4	2420.2	2416.8	2420.2	2422.0	2424.6
10°	2221.6	2276.2	2352.6	2402.1	2427.2	2428.1	2424.6	2412.4	2406.4	2407.2	2409.0
12.5°	2248.4	2309.2	2391.6	2433.2	2440.2	2421.2	2406.4	2385.6	2377.8	2374.3	2372.6
15°	2284.9	2354.3	2434.2	2449.8	2432.4	2408.1	2382.9	2349.1	2331.8	2317.8	2322.2
17.5°	2329.1	2405.5	2467.2	2455.9	2418.5	2378.6	2337.8	2286.7	2251.0	2236.3	2237.2
20°	2390.8	2459.3	2492.3	2442.9	2386.4	2325.7	2256.2	2193.8	2160.8	2146.0	2144.3
22.5°	2465.4	2531.3	2516.6	2420.2	2340.5	2243.2	2156.5	2110.5	2094.0	2083.6	2085.3
25°	2554.8	2611.2	2533.9	2387.3	2264.9	2133.9	2067.1	2052.4	2044.6	2036.7	2036.7
27.5°	2671.0	2701.4	2546.9	2338.7	2147.0	2017.6	1993.3	1995.9	1993.3	1980.3	1982.9
30°	2824.7	2818.5	2559.1	2259.7	2011.6	1912.6	1914.4	1925.7	1927.4	1918.7	1923.0
32.5°	3026.8	2965.2	2565.2	2157.3	1882.2	1820.6	1822.3	1834.5	1843.2	1828.4	1835.4
35°	3271.6	3136.2	2555.6	2028.9	1782.5	1733.0	1720.0	1723.4	1726.0	1712.2	1721.7
37.5°	3557.1	3328.0	2513.1	1886.6	1700.0	1647.1	1619.3	1595.8	1582.0	1569.0	1577.7
40°	3870.4	3537.1	2435.0	1747.7	1608.0	1555.9	1514.3	1470.1	1423.2	1405.8	1413.7
42.5°	4198.4	3752.3	2340.5	1615.0	1502.1	1459.6	1415.3	1351.2	1280.8	1245.3	1249.6
45°	4538.6	3972.8	2247.6	1483.9	1393.7	1375.4	1324.3	1247.0	1170.7	1125.6	1122.1
47.5°	4871.8	4181.0	2111.3	1352.0	1292.1	1312.1	1272.2	1201.0	1116.0	1044.8	1037.0
50°	5190.3	4376.2	1888.4	1218.4	1209.7	1293.0	1254.8	1152.4	1055.2	964.1	956.3
52.5°	5506.1	4534.2	1602.8	1096.9	1165.4	1287.8	1232.3	1119.4	1000.6	905.1	894.7
55°	5774.3	4615.8	1327.7	992.7	1101.3	1243.5	1205.4	1080.4	923.3	821.8	813.1
57.5°	5927.1	4549.9	1098.6	890.3	1012.7	1170.7	1159.4	997.1	831.4	753.3	742.8
60°	5861.1	4282.6	911.2	800.9	928.5	1091.7	1079.5	914.6	761.1	687.3	676.9
62.5°	5497.5	3773.1	762.8	722.8	852.2	1011.0	999.7	851.3	707.2	636.1	624.8
65°	4765.0	3069.4	647.4	657.7	774.9	913.8	930.3	798.4	664.7	595.3	584.0
67.5°	3634.3	2223.3	557.1	601.4	699.5	818.4	866.0	760.1	629.1	563.2	552.8
70°	2071.4	1262.6	480.7	546.7	632.6	729.8	816.6	729.8	591.0	536.3	529.3
72.5°	785.4	579.6	415.6	492.0	568.4	655.2	761.9	682.0	546.7	505.9	499.0
75°	419.1	353.2	349.7	427.8	494.7	582.3	693.4	635.2	513.7	534.5	552.0
77.5°	285.5	249.9	292.4	366.2	413.9	501.6	620.4	564.1	445.2	443.4	408.8
80°	197.8	177.0	237.8	295.1	320.2	421.8	541.5	484.2	362.7	338.5	323.7
82.5°	118.9	115.4	177.9	220.4	226.5	325.4	448.6	406.1	296.7	258.6	260.3
85°	65.1	68.6	113.7	129.3	131.9	227.3	351.5	314.2	228.3	191.8	193.5
87.5°	18.2	23.5	41.6	51.2	63.3	118.0	209.1	186.5	114.6	79.8	79.8
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)