

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: P883224

Luminaire Tested: **NAV-SB3C-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17744 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

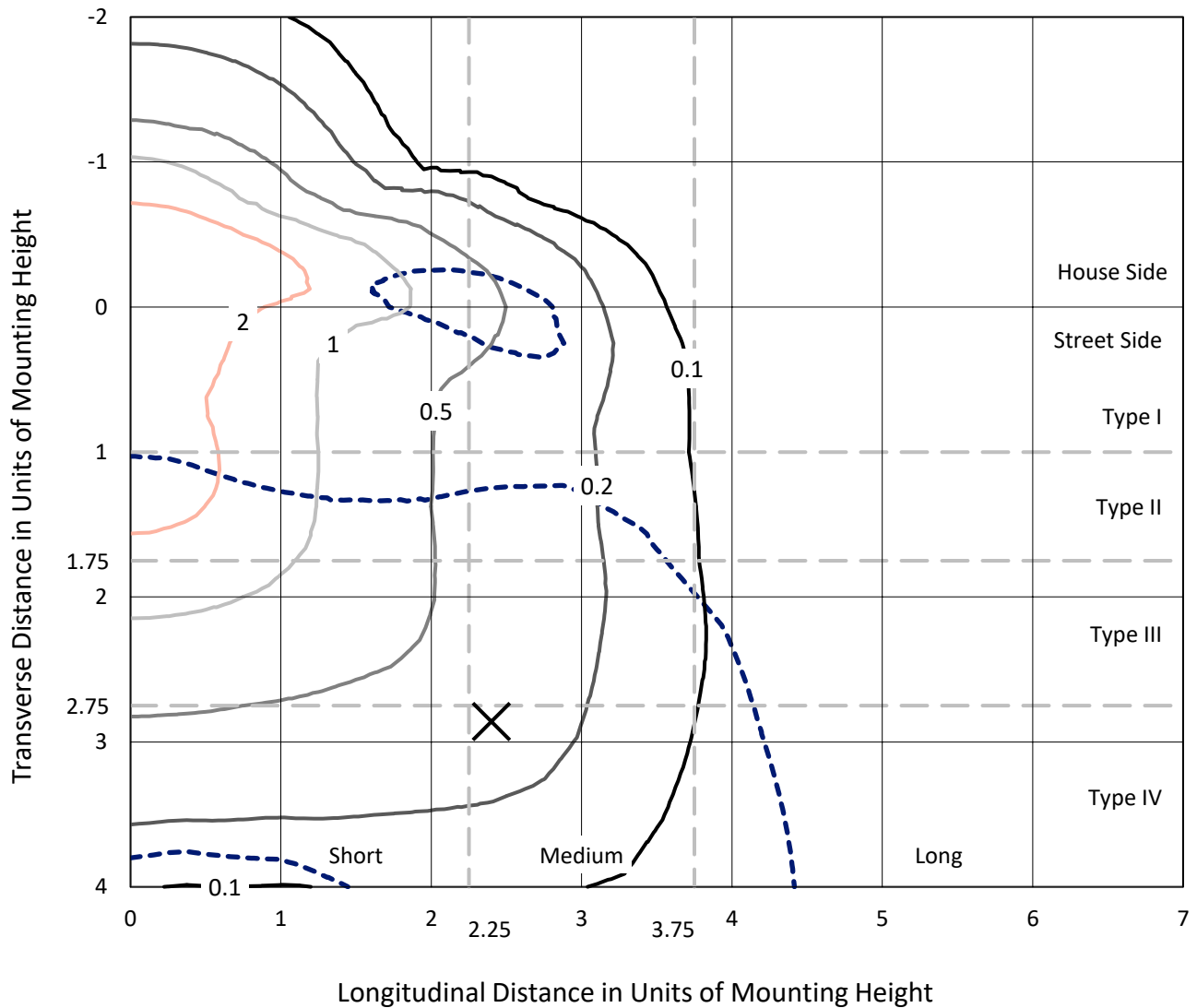
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

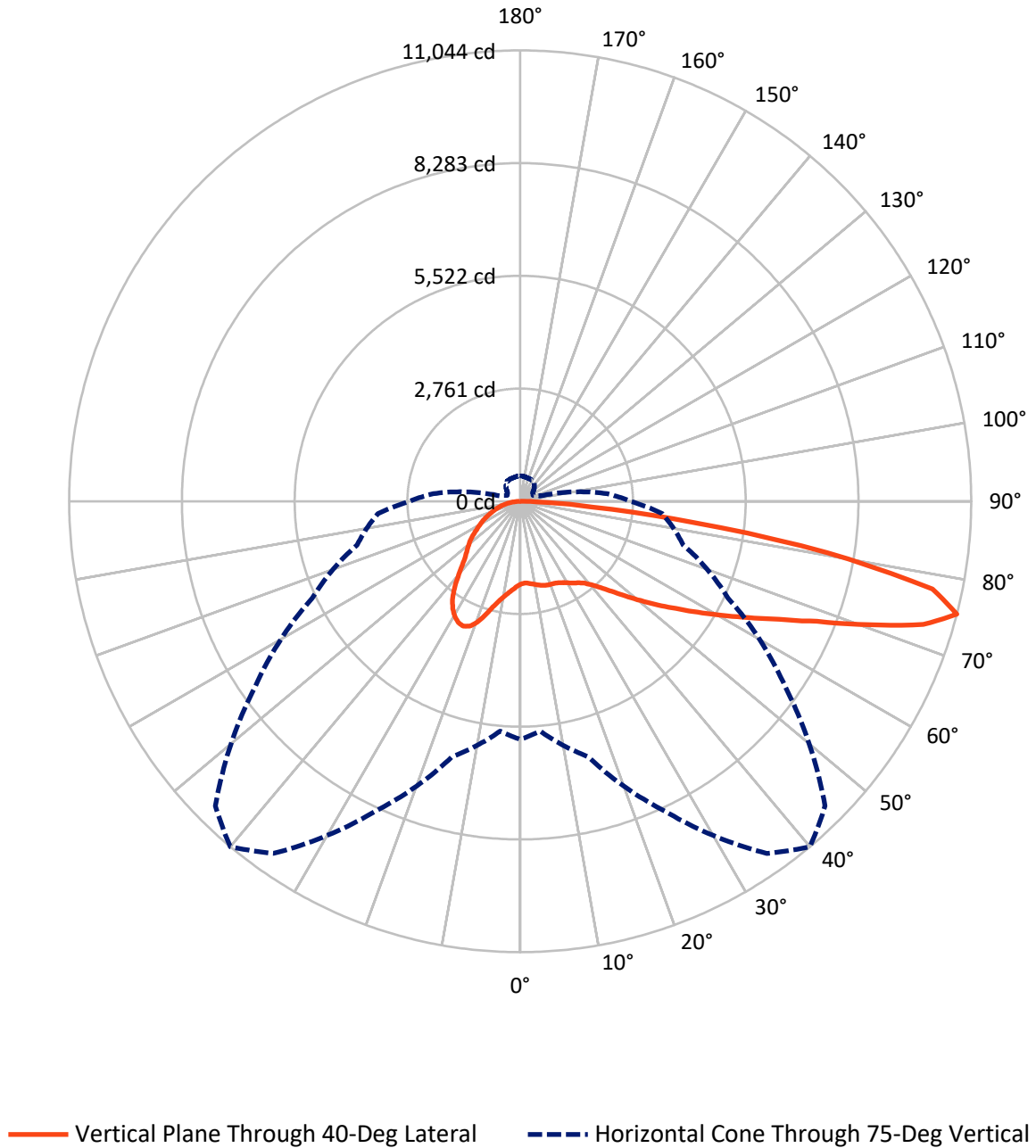
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5497.7	0.0	5497.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12246.3	0.0	12246.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	17744.0	0.0	17744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.1
10°-20°	680.0	3.8
20°-30°	1241.6	7.0
30°-40°	1761.0	9.9
40°-50°	2377.9	13.4
50°-60°	3198.9	18.0
60°-70°	4060.1	22.9
70°-80°	3684.8	20.8
80°-90°	537.1	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°	17744.0	100.0
0°-180°	17744.0	100.0

Coefficient of Utilization



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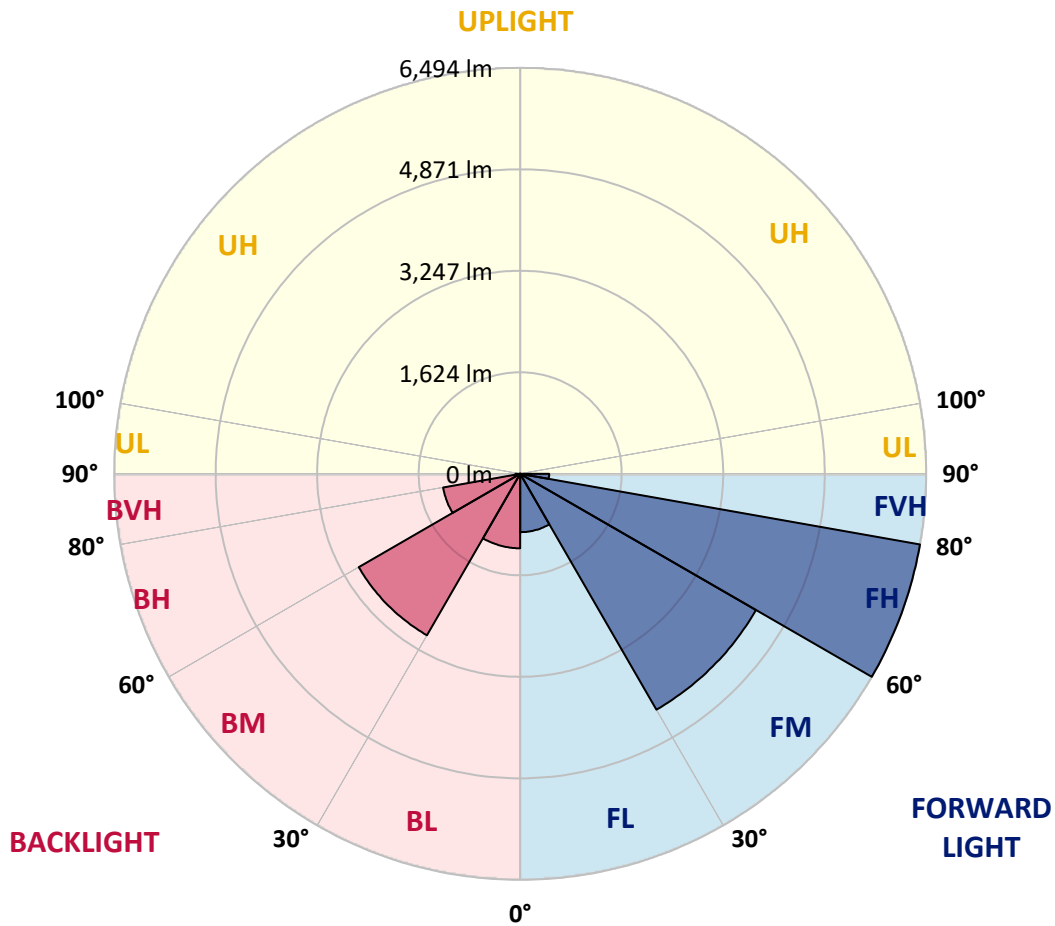
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.4	5.3			
FM (30°-60°)	4355.8	24.5			
FH (60°-80°)	6494.0	36.6			G3/7500
FVH (80°-90°)	463.2	2.6			G3/500
BL (0°-30°)	1190.8	6.7	B3/2500		
BM (30°-60°)	2982.0	16.8	B3/5000		
BH (60°-80°)	1250.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	73.9	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°	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	1998.0	2009.3	2006.5	2002.7	2002.7	2003.6	2002.7	2009.3	2015.9	2022.5	2032.8
5°	2018.7	2030.0	2024.3	2019.6	2015.9	2014.9	2012.1	2011.2	2014.9	2023.4	2037.5
7.5°	2059.2	2070.5	2062.0	2053.5	2046.0	2042.2	2038.5	2032.8	2030.0	2034.7	2054.5
10°	2104.3	2115.6	2105.3	2090.2	2078.0	2073.3	2069.5	2063.9	2060.1	2062.9	2084.6
12.5°	2149.5	2160.8	2146.7	2126.0	2110.0	2107.2	2102.5	2100.6	2099.6	2098.7	2120.3
15°	2191.9	2201.3	2183.4	2158.9	2142.0	2137.3	2132.6	2135.4	2140.1	2145.7	2170.2
17.5°	2224.8	2234.2	2207.9	2175.9	2159.9	2158.0	2155.2	2164.6	2177.7	2191.9	2222.0
20°	2254.9	2264.3	2230.4	2187.2	2168.3	2168.3	2169.3	2189.0	2207.9	2228.6	2270.0
22.5°	2297.3	2304.8	2263.4	2204.1	2176.8	2178.7	2186.2	2206.0	2229.5	2257.7	2315.1
25°	2360.3	2366.0	2315.1	2236.1	2205.0	2210.7	2217.3	2226.7	2249.3	2282.2	2359.4
27.5°	2462.0	2466.7	2399.9	2292.6	2245.5	2254.9	2264.3	2257.7	2268.1	2296.3	2395.1
30°	2605.0	2607.8	2523.1	2381.0	2314.2	2318.9	2320.8	2293.5	2273.7	2296.3	2420.6
32.5°	2774.4	2773.5	2672.8	2488.3	2392.3	2387.6	2371.6	2318.0	2271.9	2291.6	2443.1
35°	3037.0	3026.6	2896.8	2638.9	2480.8	2451.6	2414.0	2345.3	2281.3	2286.9	2462.9
37.5°	3471.8	3439.8	3260.0	2885.5	2612.5	2538.2	2482.7	2389.5	2302.0	2285.0	2486.4
40°	3962.1	3921.6	3724.0	3223.3	2810.2	2690.7	2601.2	2452.6	2335.9	2293.5	2521.3
42.5°	4543.7	4486.3	4273.6	3621.4	3060.5	2887.3	2752.8	2532.5	2385.7	2320.8	2568.3
45°	5258.0	5181.8	4880.6	4070.3	3375.8	3145.2	2965.5	2654.0	2462.0	2373.5	2638.9
47.5°	5979.9	5998.7	5570.5	4584.2	3754.1	3463.3	3231.8	2836.5	2573.0	2458.2	2752.8
50°	6746.9	6760.0	6256.6	5153.6	4183.3	3822.8	3531.1	3040.8	2727.4	2578.7	2923.1
52.5°	7345.4	7347.3	6879.6	5749.3	4630.3	4218.1	3853.9	3274.1	2906.2	2738.7	3149.9
55°	7720.0	7715.3	7316.3	6313.0	5144.2	4633.1	4211.5	3539.5	3124.5	2926.9	3435.1
57.5°	7992.0	7977.9	7617.4	6797.7	5691.9	5123.4	4616.2	3840.7	3382.4	3150.9	3810.6
60°	8095.5	8087.0	7821.6	7216.5	6267.8	5665.5	5083.0	4177.6	3675.1	3415.3	4293.4
62.5°	8135.0	8151.0	8022.1	7622.1	6884.3	6266.0	5595.9	4580.4	4004.5	3714.6	4802.5
65°	8274.3	8303.5	8277.1	8152.9	7580.7	6969.0	6276.3	5059.4	4364.0	4035.5	5334.3
67.5°	8550.1	8579.2	8590.5	8788.2	8431.5	7845.2	7125.2	5656.1	4784.6	4368.7	5734.2
70°	8543.5	8535.0	8734.5	9293.5	9496.8	9058.3	8269.6	6390.2	5286.3	4645.4	5785.1
72.5°	7776.5	7708.7	8180.2	9287.9	10383.4	10325.0	9667.2	7337.0	5719.2	4679.2	5019.9
75°	5834.0	5653.3	6486.2	8370.3	10531.1	11044.0	10555.6	7924.2	5616.6	4134.3	3493.4
77.5°	2494.9	2313.3	3294.9	6196.3	9425.3	10324.1	9740.6	6913.5	4483.5	2733.9	1715.7
80°	653.1	652.2	995.7	2809.2	6410.0	7624.0	6688.5	4464.7	2561.7	976.9	473.4
82.5°	270.1	263.5	366.1	1092.6	3132.0	4278.3	3491.5	1991.4	925.1	264.5	157.2
85°	100.7	99.8	177.9	377.4	1104.9	1764.6	1277.1	509.1	230.6	128.9	70.6
87.5°	28.2	27.3	38.6	130.8	269.2	408.4	218.3	83.8	64.9	50.8	20.7
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°	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	2035.6	2040.3	2048.8	2055.4	2063.9	2073.3	2086.5	2094.9	2103.4	2109.0	2105.3
5°	2044.1	2054.5	2076.1	2097.8	2123.2	2146.7	2174.0	2193.7	2209.7	2214.5	2216.3
7.5°	2062.9	2079.9	2116.6	2153.3	2193.7	2232.3	2271.9	2305.7	2333.0	2343.4	2344.3
10°	2095.9	2118.5	2170.2	2222.0	2275.6	2334.9	2385.7	2434.7	2473.3	2489.3	2490.2
12.5°	2137.3	2165.5	2233.3	2304.8	2379.1	2461.0	2526.9	2587.1	2635.1	2656.8	2656.8
15°	2190.9	2227.6	2314.2	2410.2	2519.4	2633.2	2717.0	2783.8	2837.5	2863.8	2861.9
17.5°	2249.3	2298.2	2407.4	2552.3	2708.5	2858.2	2956.1	3005.0	3060.5	3085.9	3085.0
20°	2305.7	2366.0	2522.2	2733.0	2941.0	3100.0	3179.1	3192.3	3196.0	3198.9	3206.4
22.5°	2364.1	2445.0	2666.2	2960.8	3183.8	3293.9	3305.2	3248.7	3169.7	3133.0	3143.3
25°	2428.1	2535.4	2854.4	3212.0	3392.7	3405.9	3319.3	3181.9	3032.3	2963.6	2973.9
27.5°	2490.2	2639.8	3080.3	3452.0	3543.3	3427.6	3241.2	3046.4	2865.7	2793.2	2801.7
30°	2552.3	2759.4	3329.7	3661.9	3612.0	3373.9	3117.9	2900.5	2718.9	2642.7	2651.1
32.5°	2615.4	2898.6	3616.7	3813.4	3599.8	3260.0	2964.5	2736.8	2576.8	2496.8	2507.1
35°	2686.9	3069.9	3888.7	3896.2	3517.9	3092.5	2762.2	2541.0	2401.7	2337.7	2351.9
37.5°	2780.1	3287.3	4128.7	3916.9	3374.8	2846.9	2510.9	2309.5	2194.7	2165.5	2186.2
40°	2895.8	3549.0	4312.2	3884.0	3163.1	2548.5	2236.1	2075.2	2010.2	2016.8	2039.4
42.5°	3046.4	3841.6	4441.1	3799.3	2868.5	2240.8	1995.2	1923.6	1954.7	1981.1	2005.5
45°	3242.2	4145.6	4521.1	3655.3	2535.4	1980.1	1853.1	1870.0	1893.5	1896.4	1915.2
47.5°	3492.5	4453.4	4573.8	3437.9	2195.6	1796.6	1762.7	1766.5	1761.8	1742.0	1757.1
50°	3804.9	4752.6	4620.9	3149.9	1906.7	1681.8	1636.6	1623.4	1558.5	1494.5	1503.0
52.5°	4160.7	5027.5	4640.7	2792.3	1681.8	1585.8	1512.4	1429.6	1308.2	1288.4	1295.0
55°	4556.0	5281.6	4589.8	2352.8	1492.6	1462.5	1351.4	1251.7	1238.5	1221.6	1224.4
57.5°	5028.4	5555.4	4486.3	1862.5	1298.7	1318.5	1210.3	1221.6	1198.0	1171.7	1167.0
60°	5545.1	5838.7	4304.7	1415.4	1098.3	1138.8	1173.6	1172.6	1166.0	1144.4	1136.9
62.5°	6010.0	6025.0	3947.0	1084.2	922.3	999.5	1094.5	1093.6	1087.9	1075.7	1071.0
65°	6286.7	5996.8	3350.4	853.6	777.4	884.7	987.2	994.8	995.7	994.8	994.8
67.5°	6237.7	5666.5	2531.6	679.5	657.8	768.0	880.9	891.2	898.8	900.6	902.5
70°	5684.4	4940.9	1650.7	542.1	551.5	665.4	780.2	790.5	797.1	804.7	808.4
72.5°	4430.8	3632.7	944.9	438.6	458.3	576.9	680.4	692.7	696.4	710.5	716.2
75°	2700.1	2136.3	510.1	345.4	376.4	493.1	581.6	595.7	602.3	619.3	621.1
77.5°	1283.7	925.1	290.8	269.2	303.0	402.8	491.3	507.3	489.4	498.8	491.3
80°	433.9	343.5	183.5	205.2	231.5	314.3	393.4	409.4	371.7	369.9	366.1
82.5°	151.5	139.3	116.7	136.5	149.6	224.9	297.4	318.1	276.7	275.7	262.6
85°	59.3	56.5	64.9	74.3	89.4	138.3	195.8	206.1	170.3	137.4	135.5
87.5°	12.2	13.2	16.0	16.9	27.3	48.0	70.6	86.6	68.7	58.3	53.6
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)