

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: P964065

Luminaire Tested: **NAV-SB3B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18160.9 lumens
Efficiency: N/A
Efficacy: 166.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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



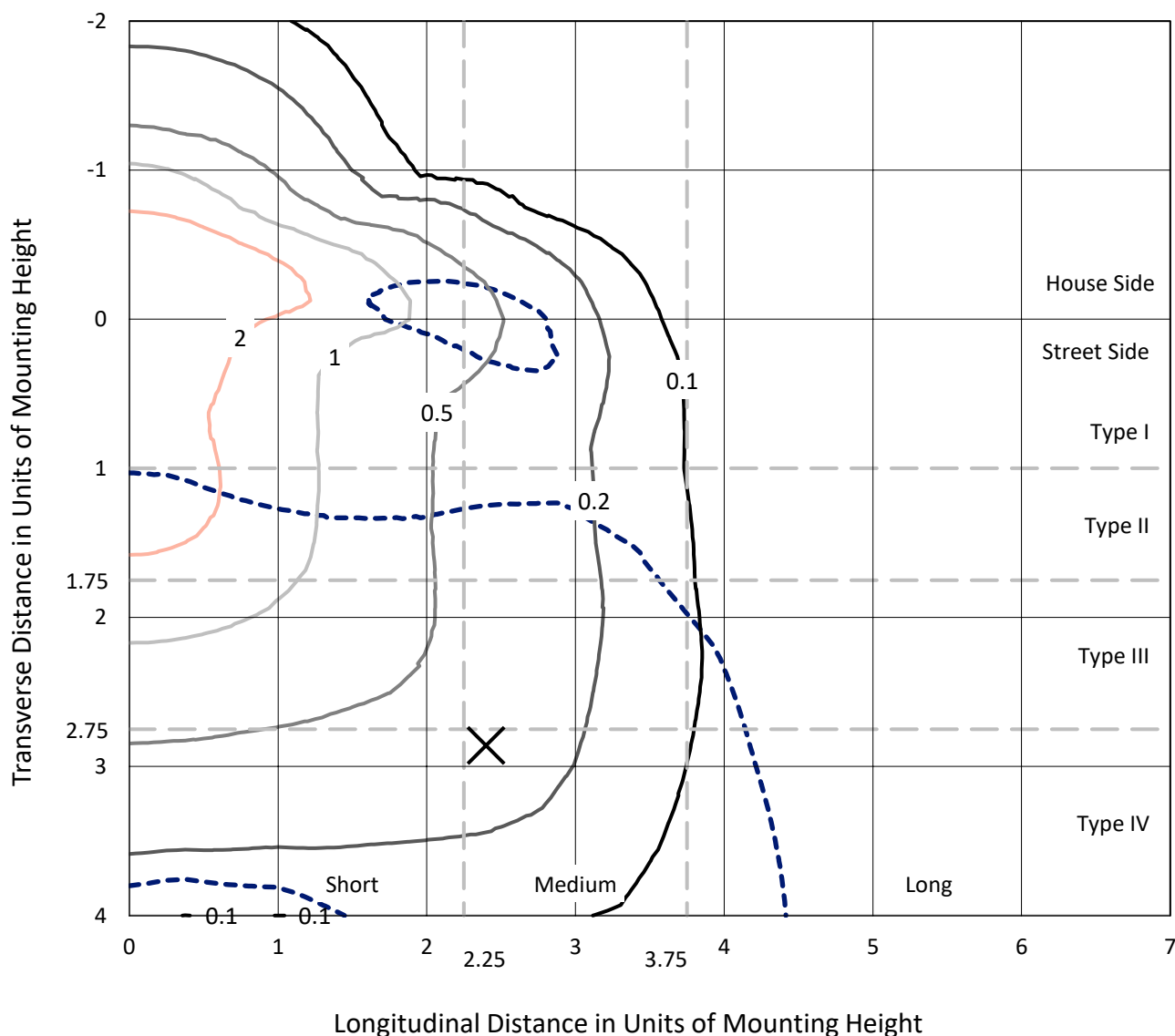
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

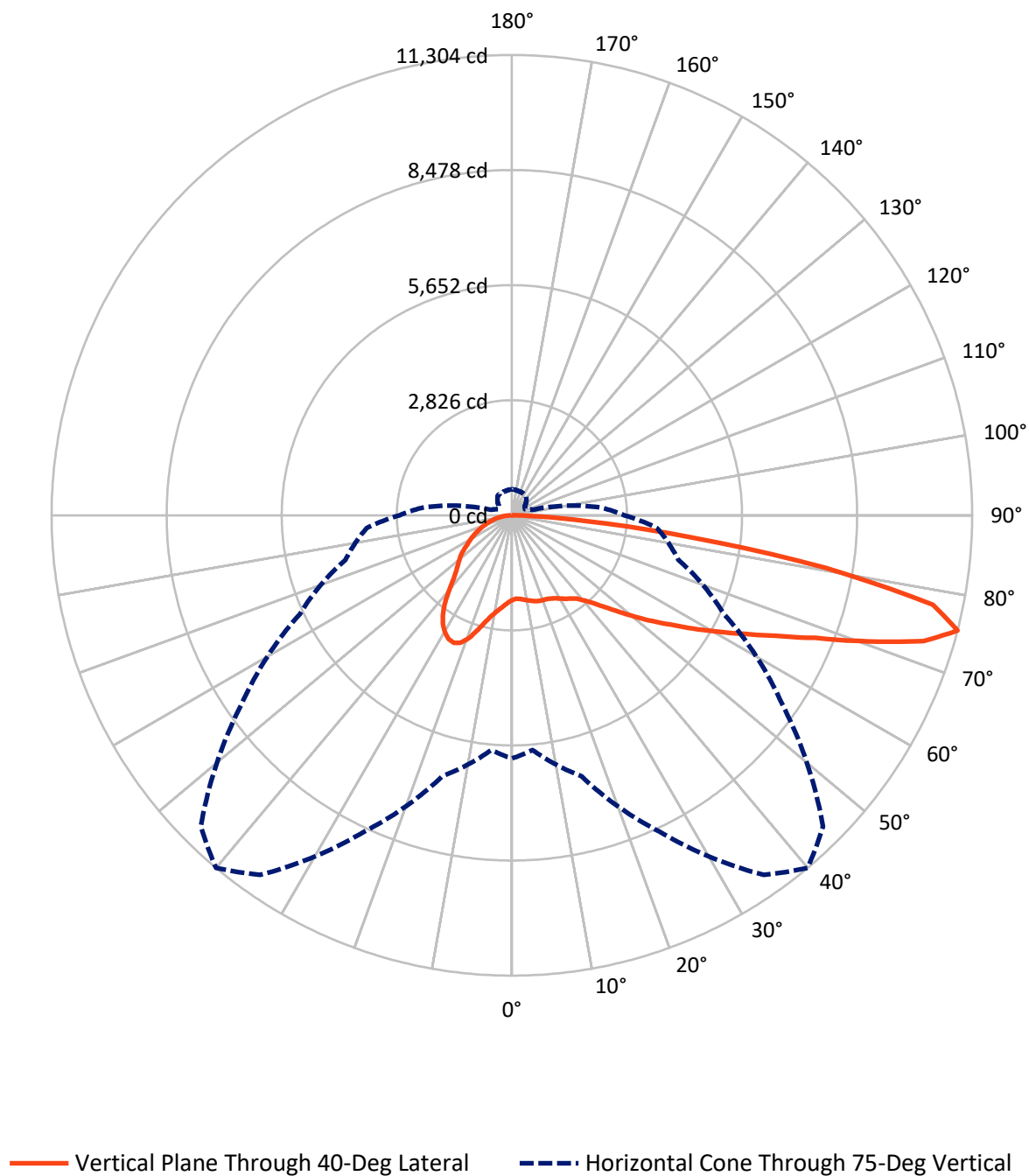
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	5626.9	0.0	5626.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12534.1	0.0	12534.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	18160.9	0.0	18160.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.1
10°-20°	696.0	3.8
20°-30°	1270.8	7.0
30°-40°	1802.4	9.9
40°-50°	2433.7	13.4
50°-60°	3274.0	18.0
60°-70°	4155.5	22.9
70°-80°	3771.4	20.8
80°-90°	549.7	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°	18160.9	100.0
0°-180°	18160.9	100.0

Coefficient of Utilization



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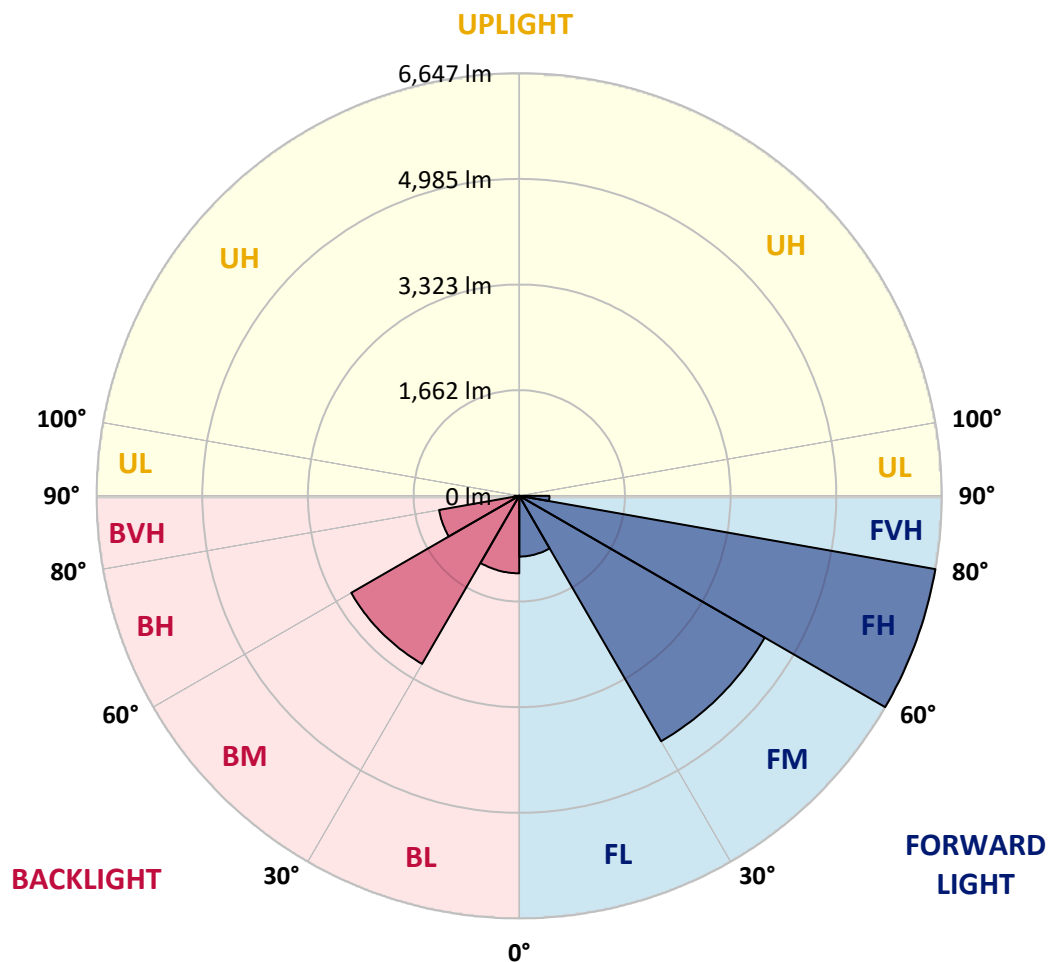
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.3	5.3			
FM	(30°-60°)	4458.1	24.5			
FH	(60°-80°)	6646.6	36.6			G3/7500
FVH	(80°-90°)	474.1	2.6			G3/500
BL	(0°-30°)	1218.8	6.7	B3/2500		
BM	(30°-60°)	3052.1	16.8	B3/5000		
BH	(60°-80°)	1280.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	75.7	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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2045.0	2056.5	2053.6	2049.8	2049.8	2050.7	2049.8	2056.5	2063.2	2070.0	2080.5
5°	2066.1	2077.7	2071.9	2067.1	2063.2	2062.3	2059.4	2058.4	2062.3	2070.9	2085.4
7.5°	2107.5	2119.1	2110.5	2101.8	2094.1	2090.2	2086.4	2080.5	2077.7	2082.5	2102.7
10°	2153.8	2165.3	2154.8	2139.4	2126.8	2122.0	2118.2	2112.3	2108.5	2111.4	2133.5
12.5°	2200.1	2211.5	2197.1	2176.0	2159.6	2156.7	2151.9	2149.9	2149.0	2148.0	2170.1
15°	2243.4	2253.0	2234.7	2209.7	2192.3	2187.5	2182.6	2185.6	2190.4	2196.2	2221.2
17.5°	2277.0	2286.7	2259.7	2227.0	2210.6	2208.7	2205.8	2215.4	2229.0	2243.4	2274.2
20°	2307.9	2317.5	2282.9	2238.6	2219.3	2219.3	2220.3	2240.4	2259.7	2280.9	2323.4
22.5°	2351.2	2358.9	2316.6	2255.9	2227.9	2229.9	2237.6	2257.8	2281.9	2310.8	2369.6
25°	2415.8	2421.6	2369.6	2288.6	2256.8	2262.6	2269.4	2279.0	2302.1	2335.9	2414.8
27.5°	2519.9	2524.7	2456.2	2346.4	2298.3	2307.9	2317.5	2310.8	2321.4	2350.3	2451.4
30°	2666.2	2669.1	2582.4	2436.9	2368.6	2373.4	2375.3	2347.4	2327.2	2350.3	2477.4
32.5°	2839.7	2838.6	2735.6	2546.8	2448.5	2443.7	2427.3	2372.5	2325.2	2345.5	2500.6
35°	3108.3	3097.8	2964.8	2700.9	2539.1	2509.2	2470.7	2400.3	2334.8	2340.7	2520.8
37.5°	3553.4	3520.6	3336.7	2953.2	2673.9	2597.9	2541.0	2445.6	2356.1	2338.7	2544.9
40°	4055.2	4013.8	3811.5	3299.1	2876.3	2753.9	2662.3	2510.2	2390.7	2347.4	2580.5
42.5°	4650.5	4591.7	4374.1	3706.5	3132.4	2955.2	2817.4	2592.0	2441.8	2375.3	2628.6
45°	5381.6	5303.6	4995.3	4166.0	3455.1	3219.1	3035.1	2716.4	2519.9	2429.2	2700.9
47.5°	6120.4	6139.6	5701.4	4691.9	3842.3	3544.7	3307.8	2903.2	2633.4	2516.0	2817.4
50°	6905.4	6918.9	6403.6	5274.6	4281.5	3912.6	3614.0	3112.2	2791.5	2639.3	2991.8
52.5°	7518.1	7519.9	7041.2	5884.4	4739.1	4317.2	3944.4	3351.1	2974.4	2803.0	3223.9
55°	7901.4	7896.6	7488.1	6461.4	5265.0	4742.0	4310.4	3622.8	3197.9	2995.7	3515.7
57.5°	8179.8	8165.4	7796.4	6957.4	5825.6	5243.8	4724.6	3931.0	3461.8	3224.9	3900.1
60°	8285.7	8277.1	8005.5	7386.0	6415.2	5798.6	5202.4	4275.8	3761.4	3495.6	4394.3
62.5°	8326.2	8342.6	8210.6	7801.2	7046.1	6413.2	5727.4	4688.0	4098.6	3801.8	4915.4
65°	8468.8	8498.6	8471.6	8344.5	7758.8	7132.8	6423.8	5178.3	4466.5	4130.3	5459.6
67.5°	8750.9	8780.9	8792.3	8994.7	8629.6	8029.5	7292.7	5789.0	4897.0	4471.4	5868.9
70°	8744.2	8735.6	8939.7	9511.9	9720.0	9271.1	8463.9	6540.3	5410.5	4754.6	5921.0
72.5°	7959.2	7889.8	8372.4	9506.2	10627.3	10567.6	9894.3	7509.4	5853.6	4789.2	5137.9
75°	5971.0	5786.1	6638.6	8566.9	10778.6	11303.5	10803.6	8110.4	5748.6	4231.5	3575.5
77.5°	2553.5	2367.6	3372.2	6341.9	9646.8	10566.6	9969.5	7075.9	4588.8	2798.1	1755.9
80°	668.5	667.5	1019.1	2875.2	6560.6	7803.1	6845.7	4569.6	2622.0	999.8	484.5
82.5°	276.4	269.7	374.7	1118.3	3205.7	4378.9	3573.6	2038.2	946.9	270.7	160.8
85°	103.1	102.1	182.0	386.2	1130.9	1806.0	1307.1	521.1	236.0	131.9	72.3
87.5°	28.9	28.0	39.5	133.9	275.5	418.0	223.4	85.7	66.4	52.0	21.2
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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2083.5	2088.3	2096.9	2103.7	2112.3	2122.0	2135.5	2144.2	2152.8	2158.6	2154.8
5°	2092.1	2102.7	2124.9	2147.1	2173.1	2197.1	2225.1	2245.3	2261.7	2266.5	2268.4
7.5°	2111.4	2128.7	2166.3	2203.9	2245.3	2284.8	2325.2	2360.0	2387.8	2398.4	2399.4
10°	2145.1	2168.3	2221.2	2274.2	2329.1	2389.8	2441.8	2491.9	2531.3	2547.7	2548.7
12.5°	2187.5	2216.4	2285.8	2358.9	2435.1	2518.8	2586.3	2647.9	2697.1	2719.2	2719.2
15°	2242.4	2280.0	2368.6	2466.9	2578.6	2695.1	2780.8	2849.2	2904.1	2931.1	2929.1
17.5°	2302.1	2352.2	2464.0	2612.3	2772.2	2925.4	3025.5	3075.6	3132.4	3158.4	3157.5
20°	2360.0	2421.6	2581.5	2797.2	3010.1	3172.9	3253.8	3267.3	3271.2	3274.1	3281.7
22.5°	2419.6	2502.4	2728.9	3030.3	3258.6	3371.3	3382.9	3325.1	3244.1	3206.6	3217.2
25°	2485.1	2595.0	2921.5	3287.5	3472.5	3485.9	3397.4	3256.7	3103.5	3033.2	3043.8
27.5°	2548.7	2701.9	3152.7	3533.2	3626.6	3508.1	3317.4	3117.9	2933.0	2858.8	2867.5
30°	2612.3	2824.2	3407.9	3747.9	3696.9	3453.2	3191.2	2968.7	2782.8	2704.8	2713.4
32.5°	2676.8	2966.8	3701.7	3903.0	3684.4	3336.7	3034.2	2801.1	2637.3	2555.4	2566.1
35°	2750.1	3142.0	3980.1	3987.8	3600.5	3165.2	2827.1	2600.7	2458.2	2392.7	2407.1
37.5°	2845.4	3364.6	4225.7	4009.0	3454.1	2913.8	2569.9	2363.8	2246.3	2216.4	2237.6
40°	2963.9	3632.4	4413.5	3975.3	3237.5	2608.4	2288.6	2123.9	2057.5	2064.2	2087.3
42.5°	3117.9	3931.9	4545.5	3888.5	2935.9	2293.4	2042.0	1968.8	2000.6	2027.7	2052.7
45°	3318.3	4243.0	4627.4	3741.1	2595.0	2026.6	1896.6	1914.0	1938.1	1940.9	1960.2
47.5°	3574.6	4558.0	4681.3	3518.7	2247.2	1838.8	1804.1	1808.0	1803.2	1783.0	1798.4
50°	3894.4	4864.3	4729.5	3223.9	1951.5	1721.3	1675.1	1661.5	1595.1	1529.6	1538.3
52.5°	4258.5	5145.6	4749.7	2857.9	1721.3	1623.1	1548.0	1463.2	1338.9	1318.7	1325.4
55°	4663.0	5405.6	4697.7	2408.0	1527.7	1496.9	1383.2	1281.1	1267.6	1250.3	1253.2
57.5°	5146.5	5686.0	4591.7	1906.2	1329.2	1349.5	1238.7	1250.3	1226.2	1199.2	1194.4
60°	5675.3	5975.9	4405.9	1448.7	1124.1	1165.5	1201.2	1200.2	1193.4	1171.3	1163.6
62.5°	6151.2	6166.6	4039.8	1109.7	943.9	1023.0	1120.2	1119.3	1113.5	1101.0	1096.1
65°	6434.4	6137.7	3429.1	873.6	795.6	905.5	1010.4	1018.1	1019.1	1018.1	1018.1
67.5°	6384.3	5799.7	2591.1	695.5	673.3	786.0	901.6	912.1	919.9	921.8	923.7
70°	5817.9	5056.9	1689.5	554.8	564.5	681.0	798.5	809.1	815.9	823.6	827.4
72.5°	4534.9	3718.1	967.1	448.8	469.1	590.5	696.4	708.9	712.8	727.2	733.0
75°	2763.5	2186.5	522.0	353.5	385.3	504.7	595.3	609.8	616.4	633.8	635.7
77.5°	1313.8	946.9	297.7	275.5	310.2	412.3	502.8	519.2	500.9	510.6	502.8
80°	444.0	351.6	187.8	210.0	237.0	321.7	402.6	419.0	380.5	378.5	374.7
82.5°	155.1	142.6	119.4	139.7	153.1	230.2	304.4	325.5	283.2	282.2	268.8
85°	60.7	57.8	66.4	76.1	91.5	141.6	200.4	210.9	174.4	140.6	138.7
87.5°	12.5	13.5	16.4	17.3	28.0	49.1	72.3	88.7	70.3	59.8	54.9
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)