

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: P965646

Luminaire Tested: **NAV-SB4A-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965646
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-SB4A-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

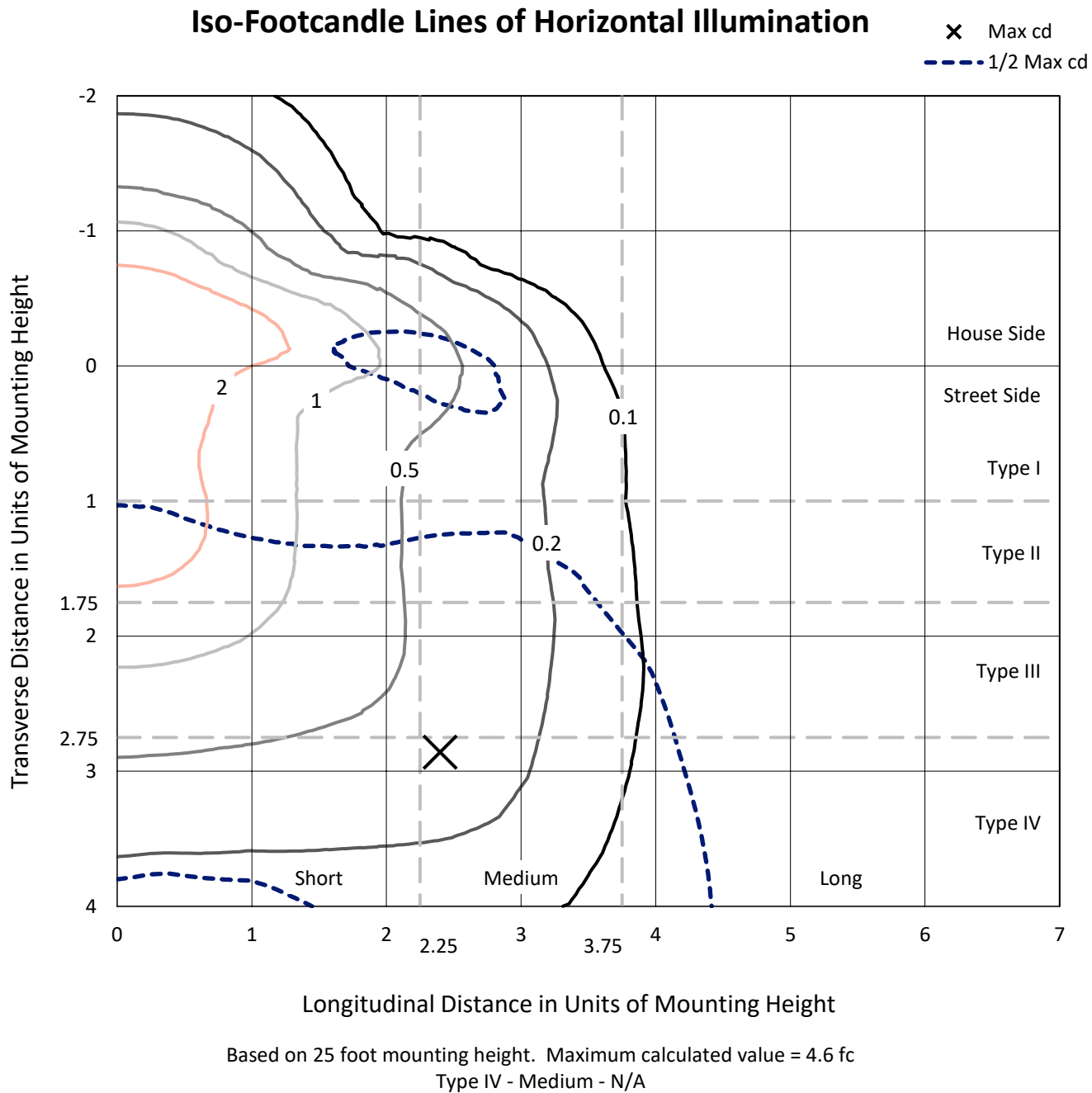
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19325.4 lumens
Efficiency: N/A
Efficacy: 169.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 114
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

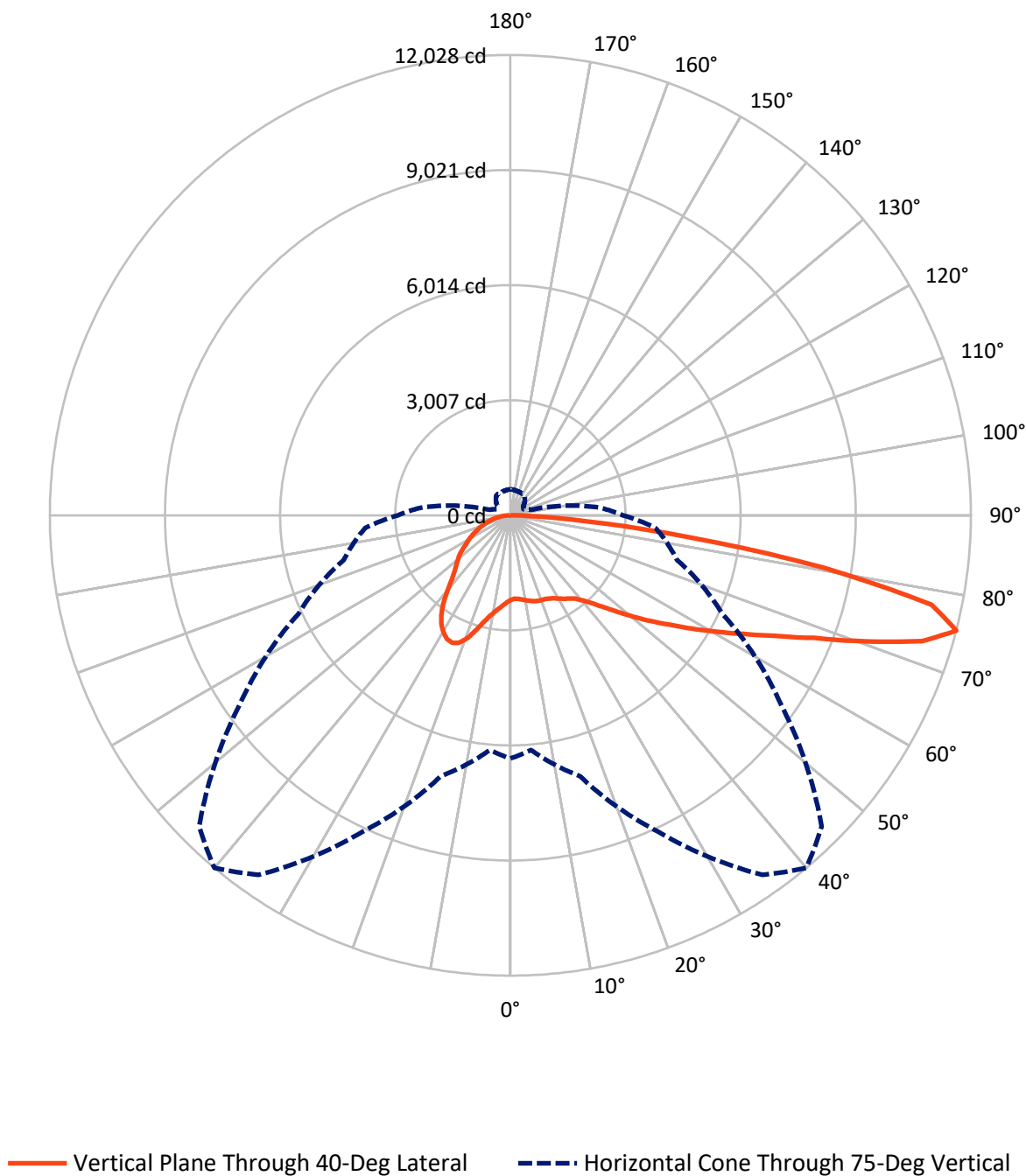


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5987.7	0.0	5987.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13337.7	0.0	13337.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	19325.4	0.0	19325.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.1
10°-20°	740.6	3.8
20°-30°	1352.3	7.0
30°-40°	1918.0	9.9
40°-50°	2589.8	13.4
50°-60°	3484.0	18.0
60°-70°	4421.9	22.9
70°-80°	4013.2	20.8
80°-90°	585.0	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°	19325.4	100.0
0°-180°	19325.4	100.0

Coefficient of Utilization



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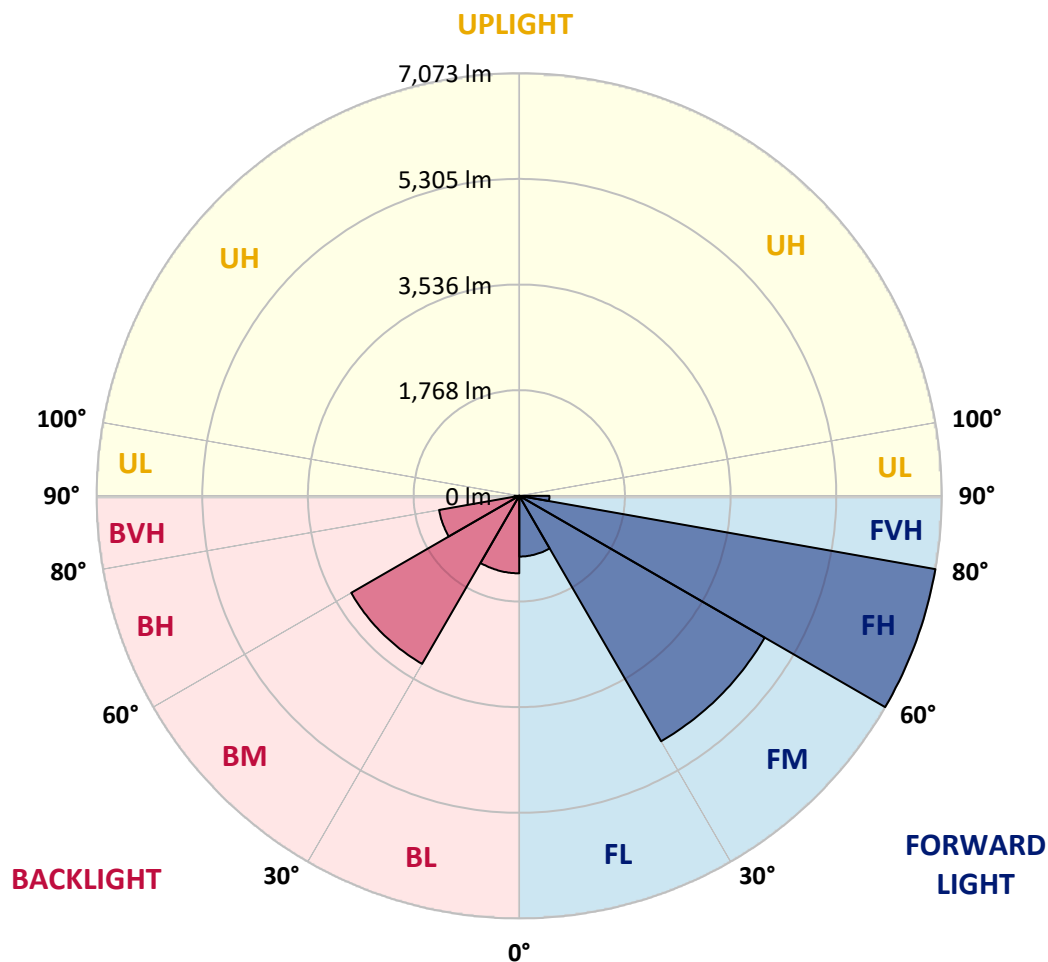
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.5	5.3			
FM	(30°-60°)	4743.9	24.5			
FH	(60°-80°)	7072.8	36.6			G3/7500
FVH	(80°-90°)	504.5	2.6			G4/750
BL	(0°-30°)	1297.0	6.7	B3/2500		
BM	(30°-60°)	3247.8	16.8	B3/5000		
BH	(60°-80°)	1362.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	80.5	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9
2.5°	2176.1	2188.4	2185.3	2181.2	2181.2	2182.2	2181.2	2188.4	2195.5	2202.7	2214.0
5°	2198.6	2210.9	2204.8	2199.6	2195.5	2194.5	2191.4	2190.4	2194.5	2203.8	2219.1
7.5°	2242.7	2255.0	2245.8	2236.5	2228.4	2224.2	2220.1	2214.0	2210.9	2216.0	2237.6
10°	2291.9	2304.2	2292.9	2276.5	2263.2	2258.1	2254.0	2247.8	2243.7	2246.8	2270.4
12.5°	2341.1	2353.4	2338.0	2315.5	2298.0	2295.0	2289.8	2287.8	2286.8	2285.8	2309.3
15°	2387.2	2397.5	2378.0	2351.4	2332.9	2327.8	2322.6	2325.7	2330.8	2337.0	2363.6
17.5°	2423.1	2433.4	2404.6	2369.8	2352.4	2350.3	2347.2	2357.5	2371.8	2387.2	2420.0
20°	2455.9	2466.1	2429.2	2382.1	2361.6	2361.6	2362.6	2384.1	2404.6	2427.2	2472.3
22.5°	2502.0	2510.2	2465.1	2400.5	2370.8	2372.9	2381.1	2402.6	2428.2	2459.0	2521.5
25°	2570.7	2576.8	2521.5	2435.4	2401.6	2407.7	2414.9	2425.1	2449.8	2485.6	2569.7
27.5°	2681.4	2686.5	2613.8	2496.9	2445.6	2455.9	2466.1	2459.0	2470.2	2501.0	2608.6
30°	2837.2	2840.3	2748.0	2593.2	2520.5	2525.6	2527.6	2497.9	2476.4	2501.0	2636.3
32.5°	3021.7	3020.7	2911.0	2710.1	2605.5	2600.4	2583.0	2524.6	2474.4	2495.9	2660.9
35°	3307.7	3296.4	3155.0	2874.1	2701.9	2670.1	2629.1	2554.3	2484.6	2490.8	2682.4
37.5°	3781.2	3746.4	3550.6	3142.6	2845.4	2764.4	2704.0	2602.5	2507.1	2488.7	2708.0
40°	4315.2	4271.2	4055.9	3510.6	3060.6	2930.5	2833.1	2671.1	2544.0	2497.9	2746.0
42.5°	4948.7	4886.2	4654.5	3944.2	3333.3	3144.7	2998.1	2758.3	2598.4	2527.6	2797.2
45°	5726.6	5643.5	5315.6	4433.1	3676.7	3425.6	3229.8	2890.5	2681.4	2585.0	2874.1
47.5°	6512.7	6533.2	6066.9	4992.8	4088.7	3772.0	3519.8	3089.4	2802.4	2677.3	2998.1
50°	7348.1	7362.5	6814.1	5612.8	4556.1	4163.5	3845.8	3311.8	2970.4	2808.5	3183.6
52.5°	8000.0	8002.1	7492.6	6261.6	5043.0	4594.0	4197.4	3566.0	3165.2	2982.7	3430.7
55°	8408.0	8402.8	7968.2	6875.6	5602.5	5046.1	4586.9	3855.0	3403.0	3187.7	3741.2
57.5°	8704.2	8688.8	8296.2	7403.5	6199.1	5580.0	5027.6	4183.0	3683.8	3431.7	4150.2
60°	8816.9	8807.7	8518.7	7859.6	6826.4	6170.4	5535.9	4550.0	4002.6	3719.7	4676.0
62.5°	8860.0	8877.4	8737.0	8301.4	7497.8	6824.3	6094.5	4988.7	4361.4	4045.7	5230.6
65°	9011.7	9043.5	9014.8	8879.5	8256.3	7590.0	6835.6	5510.4	4752.9	4395.2	5809.6
67.5°	9312.0	9343.8	9356.1	9571.3	9182.9	8544.3	7760.2	6160.1	5211.1	4758.0	6245.2
70°	9304.8	9295.6	9512.9	10121.8	10343.2	9865.5	9006.6	6959.6	5757.3	5059.4	6300.6
72.5°	8469.5	8395.7	8909.2	10115.6	11308.7	11245.2	10528.7	7990.8	6228.8	5096.3	5467.3
75°	6353.9	6157.1	7064.2	9116.2	11469.6	12028.3	11496.3	8630.4	6117.1	4502.8	3804.8
77.5°	2717.3	2519.4	3588.5	6748.5	10265.3	11244.1	10608.6	7529.5	4883.1	2977.6	1868.6
80°	711.3	710.3	1084.4	3059.6	6981.2	8303.4	7284.6	4862.6	2790.0	1063.9	515.6
82.5°	294.2	287.0	398.7	1190.0	3411.2	4659.6	3802.7	2168.9	1007.6	288.0	171.2
85°	109.7	108.6	193.7	411.0	1203.4	1921.9	1390.9	554.5	251.1	140.4	76.9
87.5°	30.7	29.7	42.0	142.5	293.2	444.8	237.8	91.2	70.7	55.4	22.5
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°	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9
2.5°	2217.1	2222.2	2231.4	2238.6	2247.8	2258.1	2272.4	2281.6	2290.9	2297.0	2292.9
5°	2226.3	2237.6	2261.1	2284.7	2312.4	2338.0	2367.8	2389.3	2406.7	2411.8	2413.9
7.5°	2246.8	2265.2	2305.2	2345.2	2389.3	2431.3	2474.4	2511.2	2541.0	2552.2	2553.3
10°	2282.7	2307.3	2363.6	2420.0	2478.4	2543.0	2598.4	2651.7	2693.7	2711.1	2712.1
12.5°	2327.8	2358.5	2432.3	2510.2	2591.2	2680.4	2752.1	2817.7	2870.0	2893.6	2893.6
15°	2386.2	2426.2	2520.5	2625.0	2743.9	2868.0	2959.2	3032.0	3090.4	3119.1	3117.0
17.5°	2449.8	2503.0	2622.0	2779.8	2950.0	3112.9	3219.5	3272.8	3333.3	3361.0	3360.0
20°	2511.2	2576.8	2747.0	2976.6	3203.1	3376.4	3462.4	3476.8	3480.9	3484.0	3492.2
22.5°	2574.8	2663.0	2903.8	3224.6	3467.6	3587.5	3599.8	3538.3	3452.2	3412.2	3423.5
25°	2644.5	2761.4	3108.8	3498.3	3695.1	3709.5	3615.2	3465.5	3302.6	3227.7	3239.0
27.5°	2712.1	2875.1	3354.8	3759.7	3859.1	3733.0	3530.1	3317.9	3121.1	3042.2	3051.4
30°	2779.8	3005.3	3626.4	3988.3	3934.0	3674.6	3395.8	3159.0	2961.2	2878.2	2887.4
32.5°	2848.5	3157.0	3939.1	4153.3	3920.6	3550.6	3228.7	2980.7	2806.4	2719.3	2730.6
35°	2926.4	3343.6	4235.3	4243.5	3831.4	3368.2	3008.4	2767.5	2615.8	2546.1	2561.5
37.5°	3027.8	3580.3	4496.7	4266.0	3675.6	3100.6	2734.7	2515.4	2390.3	2358.5	2381.1
40°	3153.9	3865.3	4696.5	4230.2	3445.0	2775.7	2435.4	2260.1	2189.4	2196.6	2221.2
42.5°	3317.9	4184.0	4837.0	4137.9	3124.2	2440.5	2173.0	2095.1	2128.9	2157.6	2184.3
45°	3531.1	4515.1	4924.1	3981.1	2761.4	2156.6	2018.2	2036.7	2062.3	2065.4	2085.9
47.5°	3803.8	4850.3	4981.5	3744.3	2391.3	1956.7	1919.8	1923.9	1918.8	1897.3	1913.7
50°	4144.1	5176.2	5032.8	3430.7	2076.6	1831.7	1782.5	1768.1	1697.4	1627.7	1636.9
52.5°	4531.5	5475.5	5054.3	3041.2	1831.7	1727.1	1647.2	1557.0	1424.7	1403.2	1410.4
55°	4962.0	5752.2	4998.9	2562.5	1625.6	1592.8	1471.9	1363.2	1348.9	1330.4	1333.5
57.5°	5476.6	6050.5	4886.2	2028.5	1414.5	1436.0	1318.1	1330.4	1304.8	1276.1	1271.0
60°	6039.2	6359.0	4688.3	1541.6	1196.2	1240.2	1278.2	1277.1	1270.0	1246.4	1238.2
62.5°	6545.5	6561.9	4298.8	1180.8	1004.5	1088.6	1192.1	1191.0	1184.9	1171.6	1166.4
65°	6846.9	6531.2	3649.0	929.7	846.6	963.5	1075.2	1083.4	1084.4	1083.4	1083.4
67.5°	6793.6	6171.4	2757.2	740.0	716.5	836.4	959.4	970.7	978.9	980.9	983.0
70°	6190.9	5381.2	1797.8	590.4	600.6	724.7	849.7	861.0	868.2	876.4	880.5
72.5°	4825.7	3956.5	1029.1	477.6	499.2	628.3	741.1	754.4	758.5	773.9	780.0
75°	2940.7	2326.8	555.6	376.2	410.0	537.1	633.4	648.8	656.0	674.4	676.5
77.5°	1398.1	1007.6	316.7	293.2	330.0	438.7	535.0	552.5	533.0	543.2	535.0
80°	472.5	374.1	199.9	223.4	252.2	342.3	428.4	445.9	404.9	402.8	398.7
82.5°	165.0	151.7	127.1	148.6	163.0	245.0	323.9	346.4	301.3	300.3	286.0
85°	64.6	61.5	70.7	81.0	97.4	150.7	213.2	224.5	185.5	149.6	147.6
87.5°	13.3	14.3	17.4	18.4	29.7	52.3	76.9	94.3	74.8	63.6	58.4
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)