

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: P966130

Luminaire Tested: **NAV-SB4B-730-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4B-730-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23087.1 lumens  
Efficiency: N/A  
Efficacy: 157.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

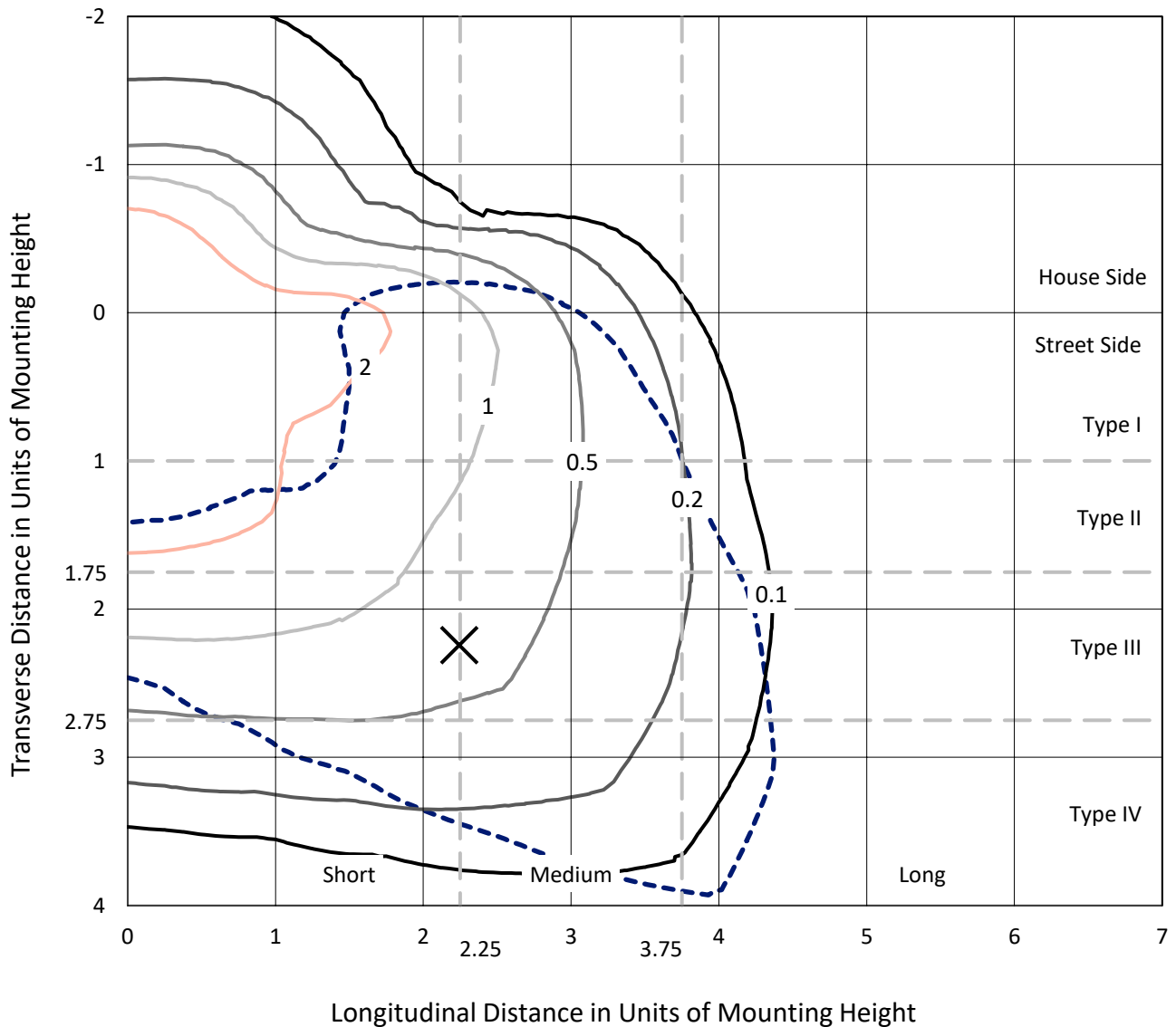
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

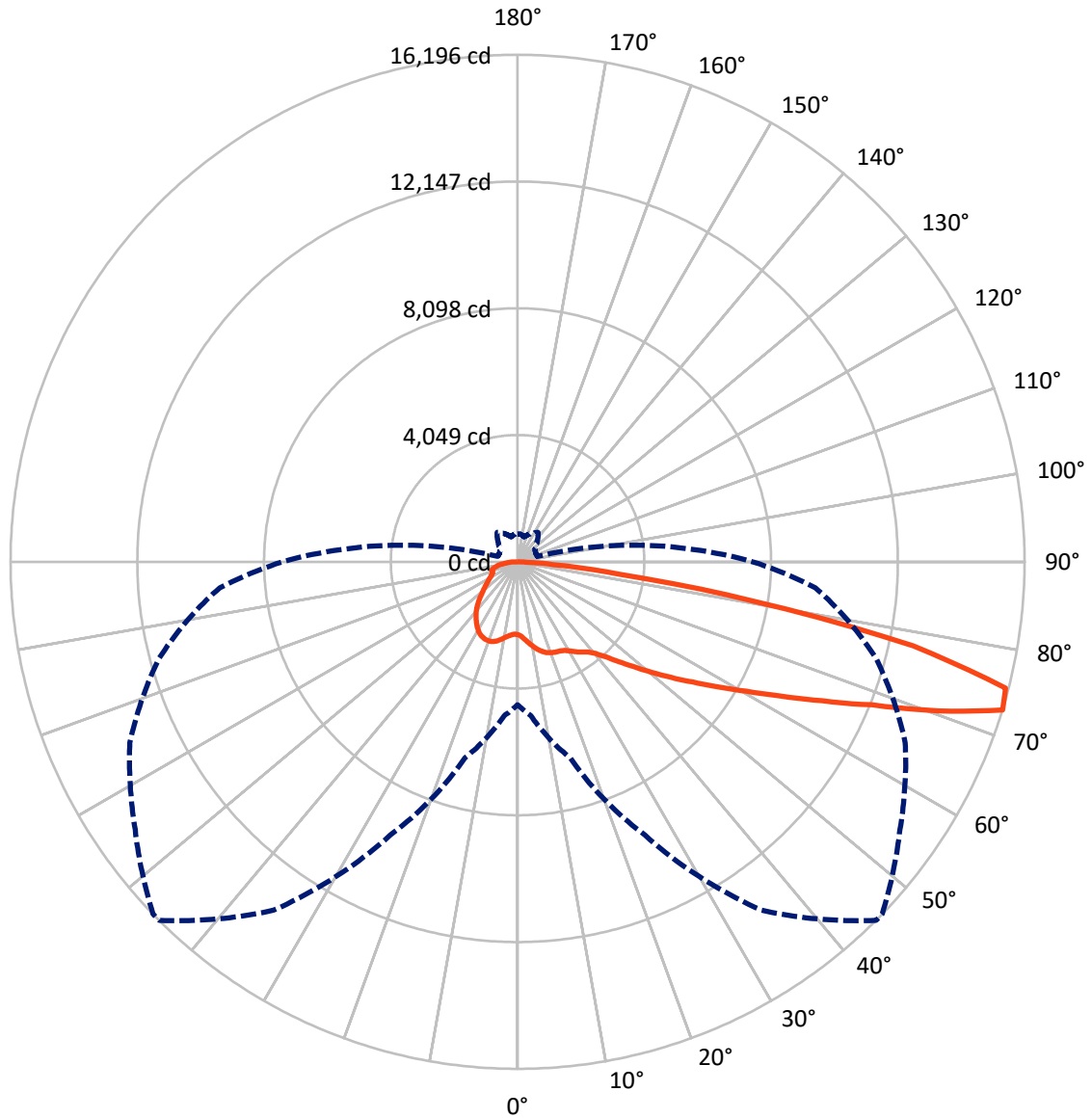
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5219.2	0.0	5219.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17867.9	0.0	17867.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	23087.1	0.0	23087.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.0	1.0
10°-20°	790.4	3.4
20°-30°	1374.9	6.0
30°-40°	1971.0	8.5
40°-50°	2775.2	12.0
50°-60°	4250.8	18.4
60°-70°	6157.9	26.7
70°-80°	4917.5	21.3
80°-90°	612.4	2.7
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°	23087.1	100.0
0°-180°	23087.1	100.0

**Coefficient of Utilization**

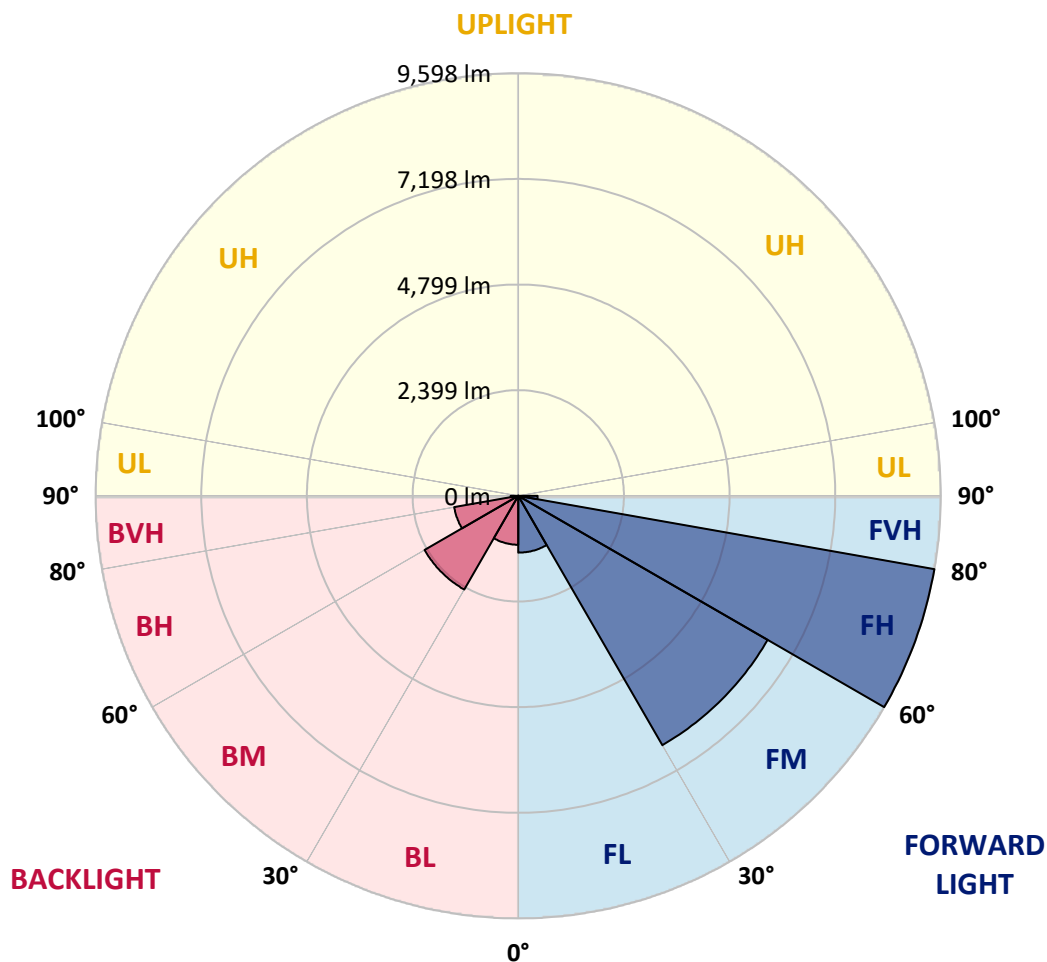


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.1	5.6			
FM (30°-60°)	6539.5	28.3			
FH (60°-80°)	9598.0	41.6			G4/12000
FVH (80°-90°)	439.4	1.9			G3/500
BL (0°-30°)	1111.2	4.8	B3/2500		
BM (30°-60°)	2457.5	10.6	B2/2500		
BH (60°-80°)	1477.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	173.1	0.7			G2/225
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0
2.5°	2420.2	2436.0	2421.5	2408.1	2402.0	2386.2	2385.0	2375.2	2369.2	2352.2	2347.2
5°	2589.4	2610.0	2585.7	2558.9	2534.6	2495.7	2490.8	2462.9	2431.2	2394.7	2374.0
7.5°	2780.2	2798.5	2770.5	2730.4	2687.9	2623.4	2622.2	2571.1	2521.2	2459.2	2423.9
10°	2946.9	2971.2	2933.4	2878.8	2825.2	2752.3	2743.7	2685.4	2622.2	2541.9	2488.4
12.5°	3094.1	3111.1	3074.6	3007.7	2945.6	2872.7	2861.7	2797.3	2726.7	2635.5	2567.4
15°	3210.8	3232.6	3184.1	3112.3	3046.6	2974.9	2965.1	2906.7	2836.2	2740.1	2652.6
17.5°	3287.4	3305.6	3255.8	3175.6	3112.3	3052.7	3045.4	2996.7	2934.7	2837.4	2743.7
20°	3316.6	3336.1	3283.8	3202.3	3143.9	3097.7	3094.1	3058.8	3016.2	2927.4	2832.6
22.5°	3345.8	3364.0	3295.9	3210.8	3159.7	3130.6	3129.3	3106.2	3089.1	3016.2	2923.8
25°	3463.8	3468.6	3377.4	3254.6	3181.6	3156.1	3154.8	3153.6	3160.9	3103.8	3022.3
27.5°	3565.9	3564.7	3486.8	3371.3	3258.3	3204.7	3203.5	3215.6	3238.8	3191.3	3124.4
30°	3715.5	3702.1	3609.7	3489.3	3385.9	3303.3	3295.9	3285.0	3303.3	3265.5	3226.6
32.5°	4033.0	3990.4	3840.8	3626.8	3491.8	3428.5	3418.8	3350.6	3358.0	3334.8	3315.4
35°	4487.9	4431.9	4232.4	3887.0	3623.1	3533.1	3528.3	3441.8	3427.3	3406.6	3413.9
37.5°	5029.1	4959.7	4727.4	4264.0	3849.3	3654.7	3647.4	3569.6	3510.0	3488.1	3529.5
40°	5572.6	5485.1	5292.9	4723.7	4182.5	3857.8	3834.7	3716.8	3648.6	3612.1	3699.7
42.5°	6100.5	6027.5	5863.3	5239.4	4593.6	4154.5	4103.5	3901.6	3850.5	3816.5	3974.5
45°	6567.5	6501.9	6381.4	5790.3	5075.3	4558.4	4508.5	4178.9	4163.0	4163.0	4391.7
47.5°	6946.9	6932.4	6804.7	6352.2	5643.2	5018.1	4931.7	4564.4	4607.0	4672.7	4984.1
50°	7367.8	7327.6	7191.4	6905.6	6310.9	5544.7	5474.1	5037.6	5196.9	5376.8	5840.2
52.5°	7754.5	7776.5	7624.4	7482.1	7064.9	6132.2	6008.0	5595.8	5940.0	6237.9	6843.6
55°	8152.2	8153.5	8110.9	8091.5	7855.5	6781.6	6645.4	6267.2	6814.4	7184.1	8013.6
57.5°	8525.6	8528.1	8591.3	8762.8	8772.5	7530.8	7376.3	7091.7	7786.2	8163.2	9220.1
60°	8858.9	8875.9	9048.6	9450.0	9578.8	8389.4	8243.5	8065.9	8790.7	9170.2	10488.6
62.5°	8970.8	9032.8	9417.1	9987.5	10375.5	9442.6	9299.1	9193.3	9846.5	10199.2	11549.1
65°	8781.1	8923.3	9666.5	10431.4	11195.2	10694.1	10551.9	10436.2	10943.4	11275.5	12419.9
67.5°	8315.2	8498.9	9651.8	10897.2	12190.0	12199.8	12067.2	11796.0	12119.5	12247.2	12703.3
70°	7088.1	7362.9	8801.7	11071.1	13332.1	14258.9	14131.2	13433.0	13293.1	12675.4	11905.5
72.5°	4566.9	4936.6	6481.2	9639.7	13586.3	16196.2	16189.0	14910.7	13664.1	11843.5	9548.5
75°	1666.2	1892.5	3011.3	6050.7	11404.4	16097.7	16145.2	14657.7	12473.4	9148.3	5948.5
77.5°	606.9	664.1	982.7	2325.4	7013.9	12916.1	13014.6	11718.2	8878.3	4591.2	2357.0
80°	318.7	350.2	503.5	902.4	3005.3	7670.6	7825.1	6964.1	4172.8	1382.8	706.6
82.5°	176.3	191.0	282.2	490.2	1353.6	3280.1	3372.6	2751.1	1468.0	586.2	291.9
85°	94.9	101.0	132.5	267.5	661.6	1137.1	1162.7	822.2	585.0	344.2	141.0
87.5°	28.0	34.0	43.8	85.2	259.0	255.4	261.5	163.0	231.0	173.9	46.2
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°	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0	2329.0
2.5°	2340.0	2336.4	2323.0	2316.9	2309.5	2308.4	2314.4	2315.7	2316.9	2318.1	2323.0
5°	2361.9	2349.7	2337.5	2330.2	2332.7	2333.9	2346.0	2354.6	2360.7	2365.5	2368.0
7.5°	2404.4	2394.7	2374.0	2372.8	2376.5	2387.4	2403.2	2422.7	2433.7	2442.2	2444.6
10°	2467.7	2449.4	2425.1	2428.7	2436.0	2451.9	2484.7	2500.5	2518.7	2534.6	2530.9
12.5°	2532.2	2516.4	2488.4	2490.8	2502.9	2530.9	2562.5	2582.0	2594.2	2606.4	2611.2
15°	2616.1	2588.1	2557.7	2557.7	2579.6	2610.0	2624.6	2640.4	2647.7	2661.1	2665.9
17.5°	2702.4	2665.9	2625.8	2623.4	2650.1	2664.7	2673.2	2675.7	2678.1	2692.7	2697.6
20°	2788.7	2748.6	2691.4	2686.6	2692.7	2690.2	2689.1	2686.6	2690.2	2708.5	2715.8
22.5°	2873.9	2827.7	2748.6	2726.7	2709.7	2686.6	2685.4	2684.2	2686.6	2704.9	2717.0
25°	2973.6	2917.7	2811.9	2746.2	2689.1	2657.4	2661.1	2662.2	2664.7	2679.4	2698.7
27.5°	3081.9	3019.9	2870.2	2740.1	2636.7	2614.9	2608.7	2612.4	2620.9	2644.0	2667.2
30°	3190.1	3117.1	2923.8	2715.8	2571.1	2540.7	2521.2	2529.7	2556.5	2579.6	2605.1
32.5°	3288.6	3215.6	2966.4	2662.2	2487.2	2439.7	2414.2	2425.1	2451.9	2460.4	2490.8
35°	3404.1	3321.5	2984.6	2577.2	2395.9	2323.0	2288.9	2273.1	2286.5	2278.0	2304.7
37.5°	3533.1	3446.8	2982.1	2465.2	2288.9	2205.0	2157.5	2098.0	2070.0	2040.8	2059.0
40°	3724.0	3600.0	2952.9	2330.2	2156.3	2079.7	1994.5	1893.7	1830.3	1773.2	1776.8
42.5°	3984.3	3812.8	2899.4	2181.9	2006.7	1935.0	1819.5	1701.5	1601.8	1506.9	1498.3
45°	4372.2	4091.3	2832.6	2023.8	1845.0	1774.5	1649.2	1516.6	1403.5	1281.9	1267.3
47.5°	4931.7	4465.9	2769.3	1843.8	1674.7	1610.3	1497.1	1374.3	1240.6	1122.6	1109.2
50°	5700.3	5003.4	2710.9	1668.6	1506.9	1458.3	1368.3	1242.9	1107.9	1013.1	1007.1
52.5°	6678.2	5734.5	2686.6	1499.6	1350.0	1331.8	1260.0	1143.3	1015.6	935.3	929.2
55°	7800.8	6608.9	2686.6	1337.8	1212.6	1218.6	1168.8	1060.6	949.9	878.1	870.8
57.5°	8946.4	7494.3	2637.9	1188.3	1095.8	1121.4	1089.7	994.9	895.1	820.9	808.8
60°	10002.1	8236.2	2440.9	1052.1	992.4	1032.6	1011.9	930.4	808.8	746.7	737.0
62.5°	10813.3	8654.6	2061.5	943.8	907.3	953.6	942.6	845.2	792.9	767.4	758.9
65°	11219.5	8586.4	1576.2	847.7	835.6	907.3	884.2	880.6	839.2	810.0	800.2
67.5°	10970.2	8000.2	1143.3	777.2	794.2	864.7	953.6	968.1	891.4	834.4	824.6
70°	9876.8	6939.7	851.4	710.2	741.9	865.9	1087.3	1013.1	874.4	807.6	796.6
72.5°	7513.8	5174.9	660.4	639.7	673.7	872.1	1146.9	992.4	825.8	892.7	885.4
75°	4296.9	2841.1	530.2	553.4	588.7	814.9	1116.4	938.9	788.1	819.7	819.7
77.5°	1638.3	1092.1	437.9	468.2	473.1	711.5	1067.8	935.3	750.4	732.2	667.7
80°	568.0	426.9	362.4	372.2	366.0	632.4	1024.1	813.6	614.2	549.7	531.5
82.5°	232.3	212.8	287.0	274.9	260.2	491.4	827.1	665.2	502.2	443.9	439.0
85°	101.0	135.0	189.7	166.7	150.8	340.5	662.9	563.1	424.5	366.0	364.9
87.5°	20.7	51.0	80.3	75.4	77.8	227.4	470.7	400.2	300.4	225.0	176.3
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)