

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: P970005

Luminaire Tested: **NAV-SB6A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970005
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-SB6A-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25004.9 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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

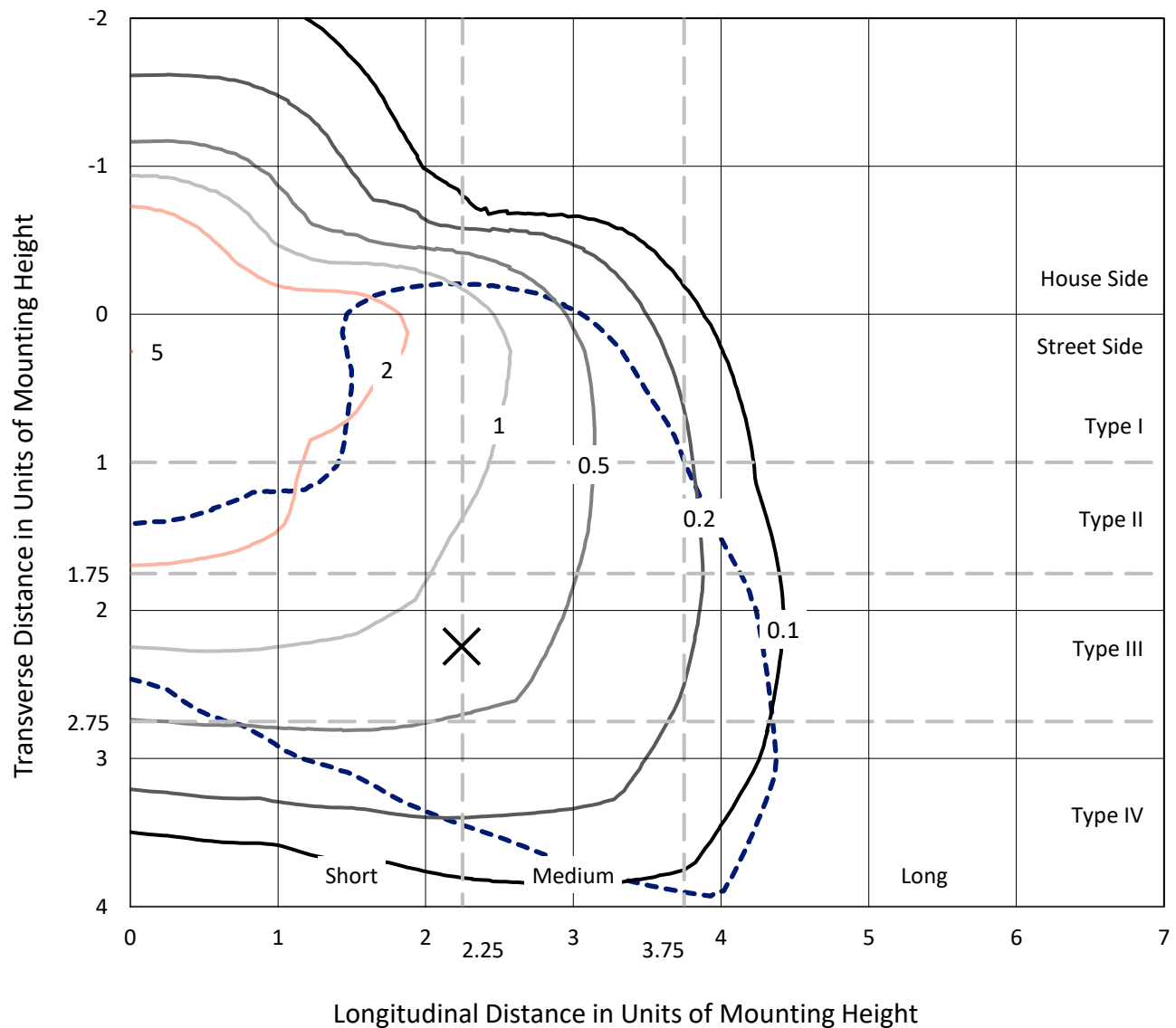


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Iso-Footcandle Lines of Horizontal Illumination

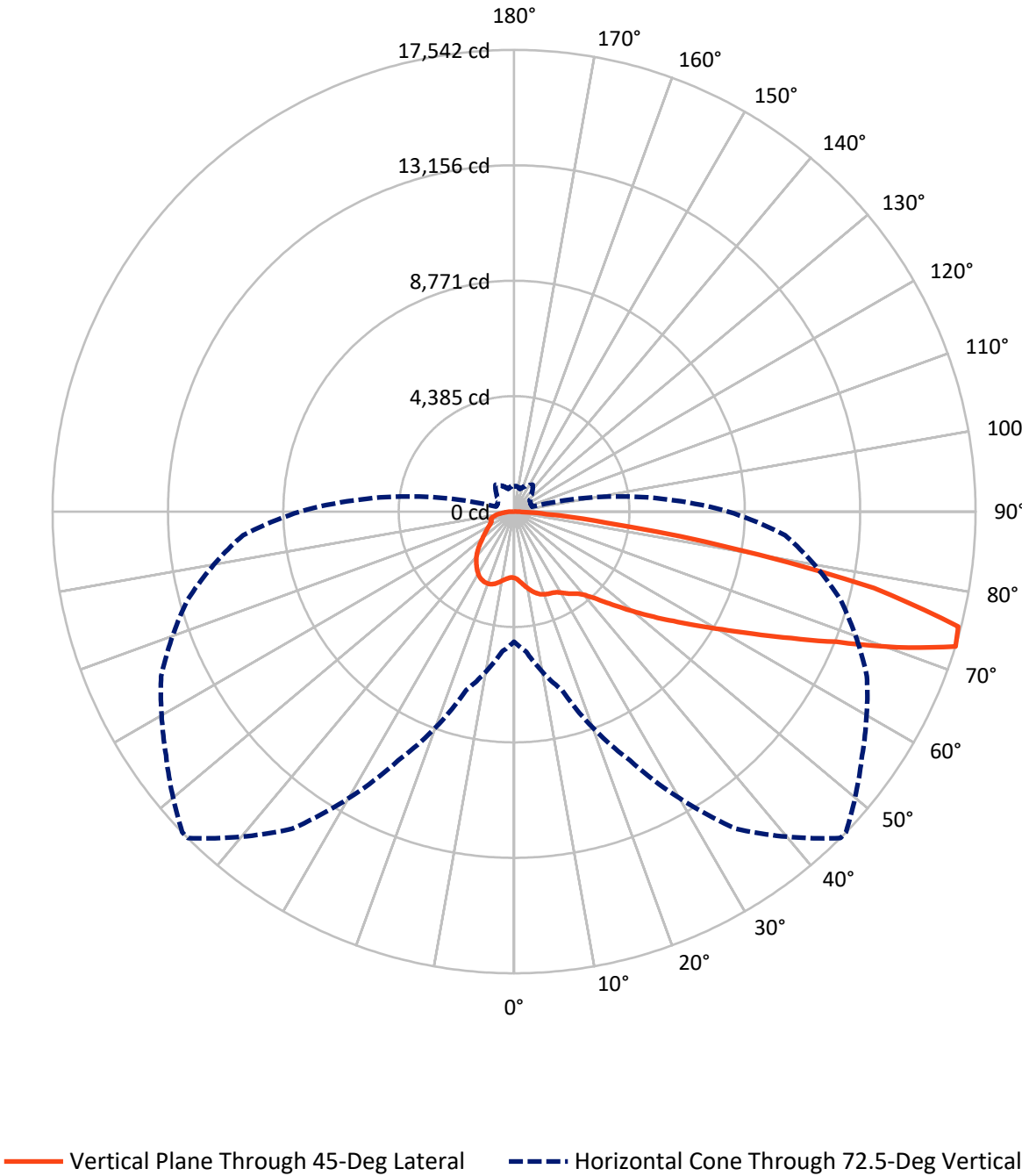
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	5652.7	0.0	5652.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19352.1	0.0	19352.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	25004.9	0.0	25004.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.0
10°-20°	856.0	3.4
20°-30°	1489.1	6.0
30°-40°	2134.7	8.5
40°-50°	3005.7	12.0
50°-60°	4603.9	18.4
60°-70°	6669.4	26.7
70°-80°	5325.9	21.3
80°-90°	663.3	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°	25004.9	100.0
0°-180°	25004.9	100.0

Coefficient of Utilization



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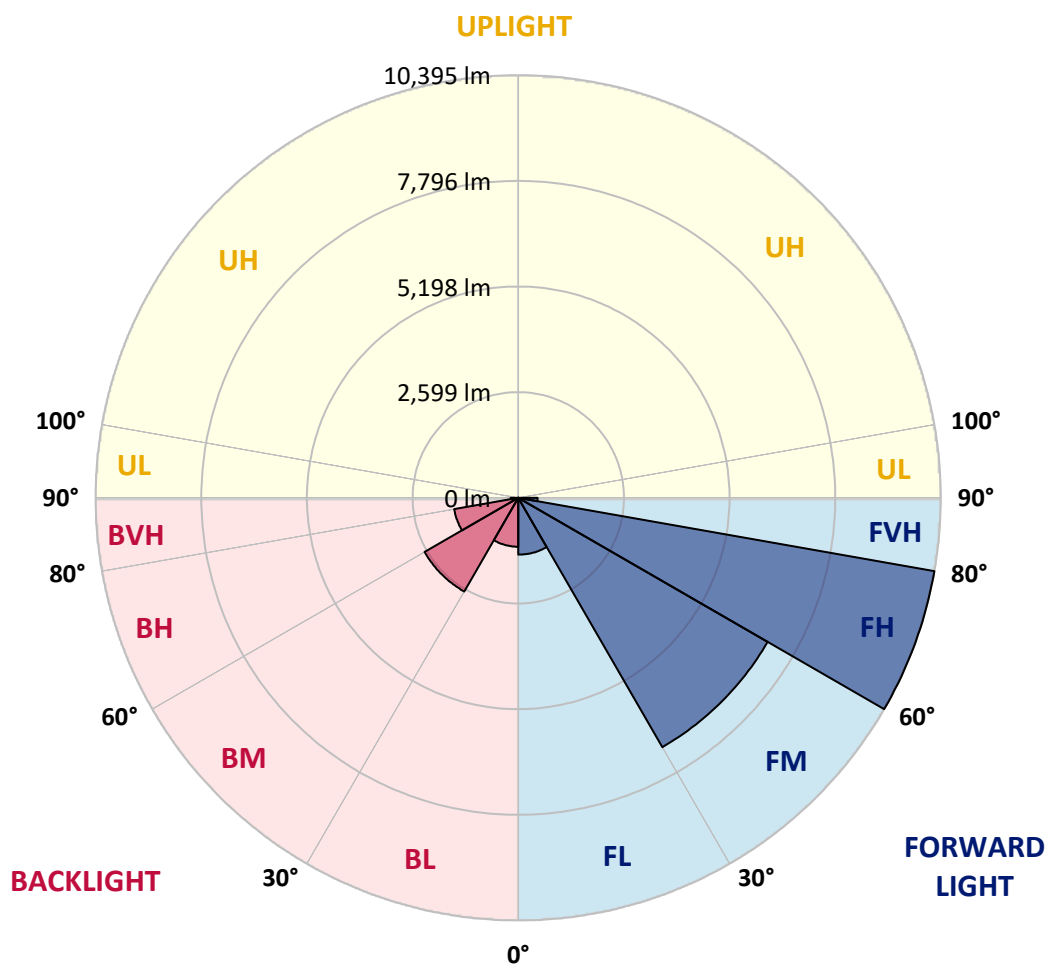
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.3	5.6			
FM	(30°-60°)	7082.7	28.3			
FH	(60°-80°)	10395.3	41.6			G4/12000
FVH	(80°-90°)	475.9	1.9			G3/500
BL	(0°-30°)	1203.5	4.8	B3/2500		
BM	(30°-60°)	2661.6	10.6	B3/5000		
BH	(60°-80°)	1600.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	187.4	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°	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5
2.5°	2621.3	2638.5	2622.6	2608.1	2601.6	2584.4	2583.1	2572.5	2566.0	2547.5	2542.3
5°	2804.4	2826.7	2800.4	2771.5	2745.2	2702.9	2697.7	2667.4	2633.1	2593.7	2571.2
7.5°	3011.2	3030.9	3000.7	2957.2	2911.1	2841.3	2840.0	2784.6	2730.6	2663.5	2625.2
10°	3191.6	3218.0	3177.2	3117.8	3059.9	2980.9	2971.7	2908.4	2840.0	2753.0	2695.0
12.5°	3351.0	3369.5	3330.0	3257.6	3190.3	3111.3	3099.5	3029.6	2953.2	2854.4	2780.7
15°	3477.5	3501.2	3448.5	3370.8	3299.7	3222.0	3211.4	3148.2	3071.8	2967.7	2872.9
17.5°	3560.4	3580.2	3526.2	3439.3	3370.8	3306.2	3298.3	3245.7	3178.5	3073.2	2971.7
20°	3592.1	3613.1	3556.5	3468.3	3405.0	3355.0	3351.0	3312.8	3266.8	3170.6	3067.8
22.5°	3623.7	3643.5	3569.7	3477.5	3422.2	3390.6	3389.3	3364.3	3345.8	3266.8	3166.6
25°	3751.5	3756.7	3657.9	3524.9	3445.8	3418.3	3416.9	3415.6	3423.5	3361.6	3273.3
27.5°	3862.1	3860.8	3776.5	3651.4	3528.9	3471.0	3469.6	3482.7	3507.8	3456.4	3383.9
30°	4024.2	4009.7	3909.6	3779.2	3667.1	3577.7	3569.7	3557.9	3577.7	3536.8	3494.6
32.5°	4367.9	4321.8	4159.9	3928.0	3781.7	3713.3	3702.7	3629.0	3636.9	3611.9	3590.8
35°	4860.5	4800.0	4584.0	4209.9	3924.0	3826.5	3821.3	3727.8	3711.9	3689.6	3697.5
37.5°	5446.7	5371.7	5120.1	4618.2	4169.1	3958.2	3950.3	3866.1	3801.5	3777.8	3822.6
40°	6035.6	5940.7	5732.6	5116.2	4530.0	4178.3	4153.2	4025.5	3951.7	3912.2	4007.0
42.5°	6607.3	6528.2	6350.4	5674.6	4975.2	4499.6	4444.4	4225.7	4170.4	4133.5	4304.7
45°	7113.1	7042.0	6911.6	6271.4	5496.9	4937.0	4883.0	4526.0	4508.9	4508.9	4756.5
47.5°	7524.0	7508.2	7370.0	6879.9	6112.0	5435.0	5341.4	4943.6	4989.7	5060.8	5398.1
50°	7979.8	7936.4	7788.8	7479.2	6835.1	6005.3	5928.9	5456.0	5628.6	5823.5	6325.4
52.5°	8398.6	8422.4	8257.7	8103.6	7651.8	6641.5	6507.1	6060.6	6433.4	6756.1	7412.1
55°	8829.5	8830.8	8784.7	8763.5	8508.0	7344.9	7197.3	6787.8	7380.5	7780.9	8679.3
57.5°	9233.8	9236.5	9304.9	9490.7	9501.2	8156.3	7989.1	7680.8	8433.0	8841.2	9986.0
60°	9594.7	9613.2	9800.2	10234.9	10374.5	9086.3	8928.3	8735.9	9521.0	9931.9	11359.9
62.5°	9716.0	9783.1	10199.4	10817.1	11237.4	10227.0	10071.5	9957.0	10664.3	11046.3	12508.5
65°	9510.5	9664.5	10469.3	11298.0	12125.1	11582.4	11428.3	11303.2	11852.5	12212.1	13451.6
67.5°	9006.0	9204.8	10453.6	11802.5	13202.6	13213.2	13069.6	12775.9	13126.3	13264.5	13758.5
70°	7676.8	7974.5	9532.8	11990.8	14439.5	15443.3	15305.0	14548.8	14397.4	13728.2	12894.4
72.5°	4946.2	5346.7	7019.5	10440.4	14714.8	17541.6	17533.8	16149.3	14799.2	12827.3	10341.6
75°	1804.6	2049.6	3261.4	6553.2	12351.8	17434.9	17486.3	15875.3	13509.6	9908.3	6442.6
77.5°	657.3	719.2	1064.4	2518.5	7596.5	13989.0	14095.7	12691.6	9615.8	4972.6	2552.8
80°	345.1	379.4	545.3	977.3	3254.9	8307.8	8475.1	7542.5	4519.4	1497.7	765.3
82.5°	191.0	206.8	305.6	530.8	1466.1	3552.5	3652.7	2979.6	1589.9	634.9	316.1
85°	102.7	109.4	143.6	289.8	716.6	1231.6	1259.3	890.4	633.6	372.8	152.8
87.5°	30.3	36.9	47.5	92.2	280.5	276.6	283.2	176.5	250.3	188.4	50.0
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°	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5	2522.5
2.5°	2534.3	2530.4	2516.0	2509.3	2501.4	2500.1	2506.7	2508.0	2509.3	2510.6	2516.0
5°	2558.1	2544.9	2531.8	2523.9	2526.4	2527.8	2541.0	2550.2	2556.8	2562.0	2564.7
7.5°	2604.2	2593.7	2571.2	2569.9	2573.9	2585.8	2602.9	2623.9	2635.8	2645.0	2647.7
10°	2672.7	2652.9	2626.6	2630.6	2638.5	2655.6	2691.1	2708.3	2728.0	2745.2	2741.2
12.5°	2742.5	2725.4	2695.0	2697.7	2710.9	2741.2	2775.4	2796.5	2809.6	2822.8	2828.1
15°	2833.4	2803.1	2770.2	2770.2	2793.8	2826.7	2842.6	2859.7	2867.6	2882.1	2887.4
17.5°	2926.9	2887.4	2843.9	2841.3	2870.2	2886.1	2895.3	2897.9	2900.5	2916.3	2921.7
20°	3020.5	2976.9	2915.0	2909.8	2916.3	2913.8	2912.4	2909.8	2913.8	2933.4	2941.3
22.5°	3112.6	3062.6	2976.9	2953.2	2934.8	2909.8	2908.4	2907.1	2909.8	2929.6	2942.7
25°	3220.7	3160.1	3045.5	2974.3	2912.4	2878.2	2882.1	2883.4	2886.1	2901.9	2923.0
27.5°	3337.9	3270.7	3108.7	2967.7	2855.8	2832.1	2825.5	2829.4	2838.6	2863.6	2888.7
30°	3455.1	3376.0	3166.6	2941.3	2784.6	2751.7	2730.6	2739.8	2768.8	2793.8	2821.5
32.5°	3561.8	3482.7	3212.8	2883.4	2693.7	2642.3	2614.7	2626.6	2655.6	2664.8	2697.7
35°	3686.9	3597.3	3232.5	2791.2	2595.0	2516.0	2479.1	2461.9	2476.4	2467.2	2496.2
37.5°	3826.5	3733.0	3229.9	2670.0	2479.1	2388.1	2336.8	2272.2	2242.0	2210.3	2230.1
40°	4033.4	3899.0	3198.2	2523.9	2335.5	2252.4	2160.3	2050.9	1982.5	1920.5	1924.4
42.5°	4315.2	4129.5	3140.3	2363.1	2173.4	2095.7	1970.6	1842.8	1734.8	1632.0	1622.9
45°	4735.5	4431.2	3067.8	2191.9	1998.2	1921.9	1786.2	1642.6	1520.1	1388.4	1372.6
47.5°	5341.4	4836.9	2999.4	1996.9	1813.8	1744.0	1621.6	1488.5	1343.6	1215.9	1201.3
50°	6173.9	5419.1	2936.1	1807.3	1632.0	1579.3	1481.8	1346.2	1200.0	1097.3	1090.7
52.5°	7232.9	6210.8	2909.8	1624.1	1462.2	1442.4	1364.7	1238.2	1099.9	1012.9	1006.3
55°	8448.8	7157.9	2909.8	1448.9	1313.3	1319.9	1265.9	1148.6	1028.8	951.0	943.1
57.5°	9689.6	8116.8	2857.1	1286.9	1186.8	1214.5	1180.3	1077.5	969.4	889.1	876.0
60°	10832.9	8920.3	2643.7	1139.4	1074.8	1118.4	1095.9	1007.7	876.0	808.8	798.3
62.5°	11711.5	9373.4	2232.8	1022.1	982.7	1032.7	1020.9	915.4	858.8	831.2	821.9
65°	12151.5	9299.7	1707.1	918.1	905.0	982.7	957.7	953.7	908.9	877.3	866.7
67.5°	11881.5	8664.7	1238.2	841.7	860.2	936.5	1032.7	1048.5	965.6	903.6	893.1
70°	10697.3	7516.1	922.1	769.3	803.5	937.9	1177.6	1097.3	947.1	874.6	862.7
72.5°	8137.9	5604.8	715.2	692.9	729.7	944.4	1242.2	1074.8	894.4	966.9	959.0
75°	4653.8	3077.0	574.3	599.3	637.6	882.5	1209.2	1016.9	853.5	887.9	887.9
77.5°	1774.3	1182.8	474.2	507.2	512.4	770.6	1156.5	1012.9	812.7	792.9	723.1
80°	615.1	462.4	392.6	403.0	396.5	685.0	1109.2	881.2	665.2	595.4	575.6
82.5°	251.6	230.5	310.9	297.7	281.9	532.2	895.7	720.6	544.0	480.8	475.5
85°	109.4	146.2	205.5	180.5	163.4	368.8	717.9	609.9	459.7	396.5	395.1
87.5°	22.3	55.4	86.9	81.7	84.3	246.3	509.7	433.4	325.3	243.6	191.0
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)