

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: P962513

Luminaire Tested: **NAV-SB2C-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-750-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15873.2 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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



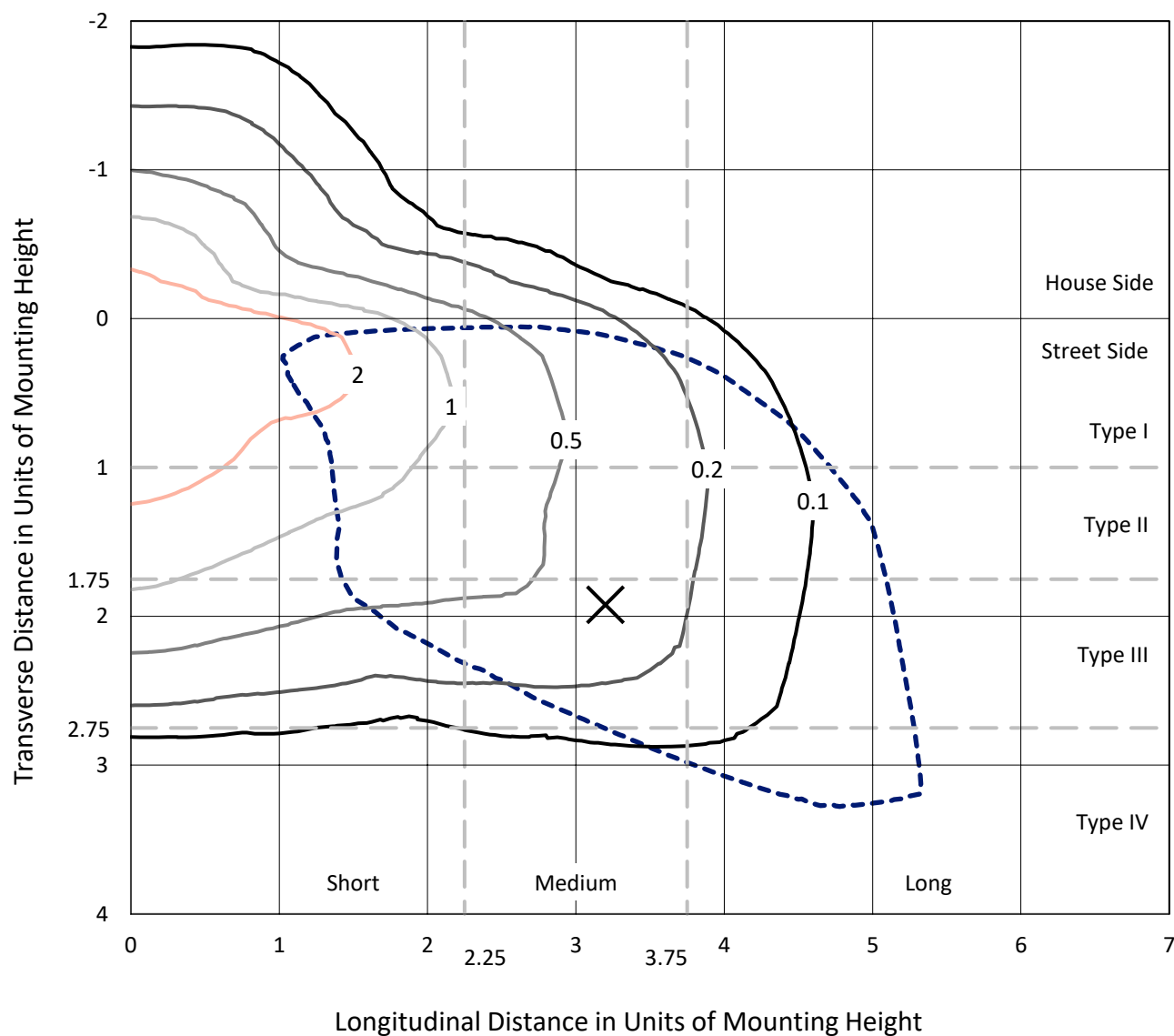
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

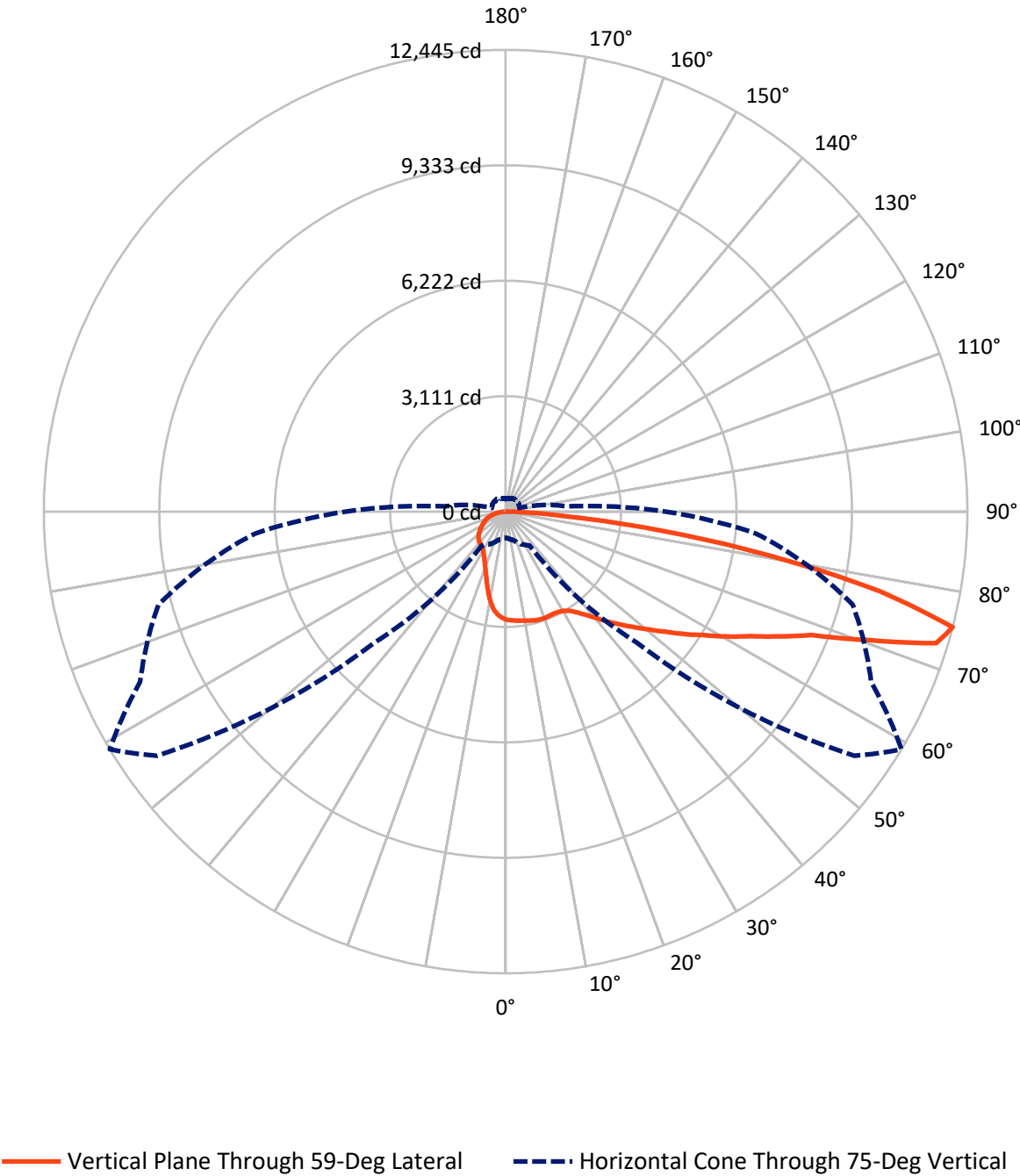
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2977.1	0.0	2977.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12896.0	0.0	12896.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	15873.2	0.0	15873.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.6
10°-20°	667.7	4.2
20°-30°	1014.3	6.4
30°-40°	1507.7	9.5
40°-50°	2242.2	14.1
50°-60°	3043.5	19.2
60°-70°	3715.6	23.4
70°-80°	2915.9	18.4
80°-90°	505.1	3.2
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°	15873.2	100.0
0°-180°	15873.2	100.0

Coefficient of Utilization



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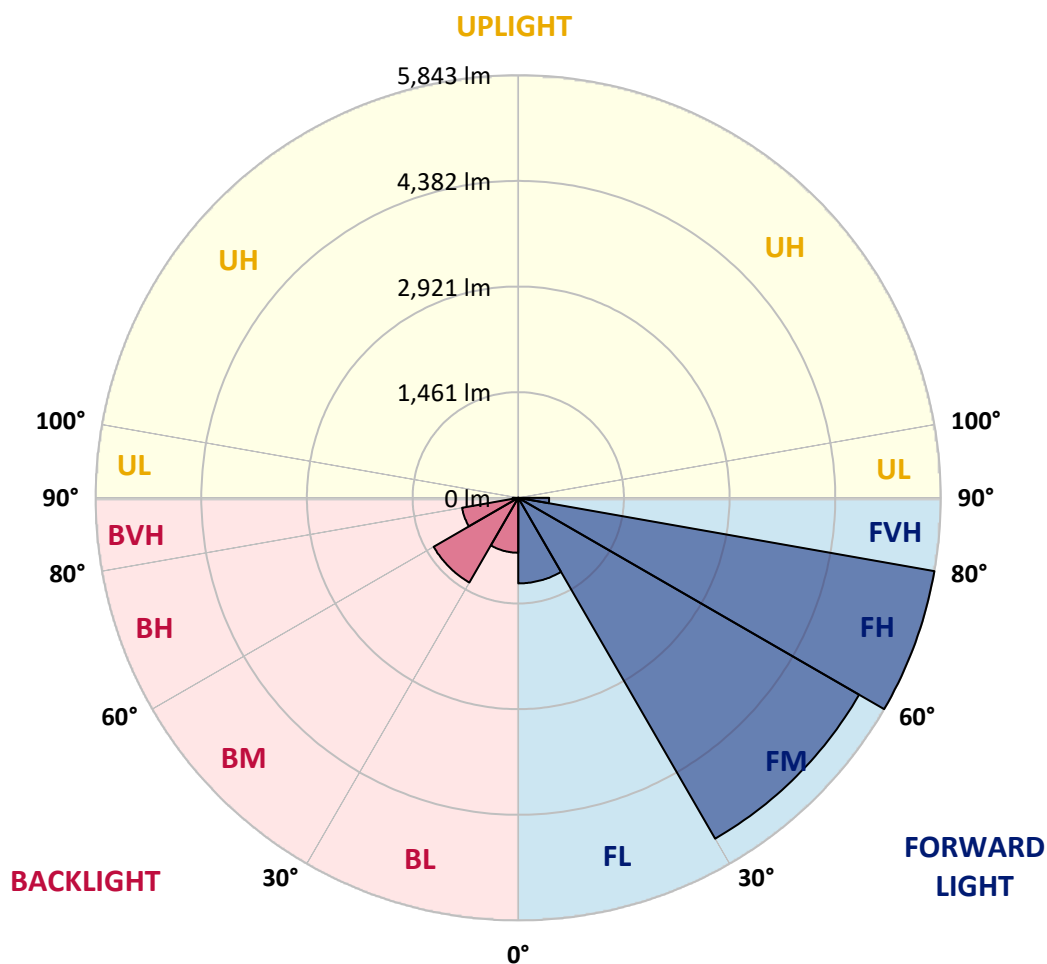
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.5	7.5			
FM	(30°-60°)	5442.0	34.3			
FH	(60°-80°)	5842.7	36.8			G3/7500
FVH	(80°-90°)	427.8	2.7			G3/500
BL	(0°-30°)	759.7	4.8	B2/1000		
BM	(30°-60°)	1351.3	8.5	B2/2500		
BH	(60°-80°)	788.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	77.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	2938.3	2928.0	2938.3	2934.0	2932.2	2928.8	2929.7	2935.7	2932.2	2936.5	2922.1
5°	2918.6	2912.6	2922.9	2920.3	2931.4	2933.1	2944.2	2951.1	2955.3	2956.2	2945.0
7.5°	2886.2	2880.1	2894.7	2906.7	2930.6	2937.3	2960.4	2971.6	2977.5	2987.8	2971.6
10°	2767.5	2764.9	2800.8	2846.0	2902.4	2937.3	2972.4	2991.2	3000.6	3028.0	3009.1
12.5°	2557.4	2560.9	2607.8	2694.9	2807.6	2920.3	2986.0	3013.4	3028.0	3062.1	3053.5
15°	2356.8	2355.9	2407.1	2500.2	2658.1	2845.2	2992.9	3039.8	3064.6	3115.0	3108.2
17.5°	2240.6	2237.2	2273.0	2344.0	2490.9	2729.9	2975.8	3054.4	3107.3	3170.5	3164.5
20°	2219.2	2212.5	2231.2	2266.3	2370.4	2603.5	2931.4	3054.4	3141.4	3223.4	3220.0
22.5°	2296.9	2285.9	2278.2	2274.0	2320.0	2499.4	2881.1	3044.1	3191.8	3299.5	3293.4
25°	2453.2	2436.1	2396.9	2358.4	2344.8	2452.4	2836.6	3041.6	3267.0	3401.9	3379.7
27.5°	2706.0	2684.7	2605.2	2513.0	2430.2	2476.3	2817.0	3057.0	3349.8	3510.3	3465.9
30°	3019.3	2996.3	2896.4	2754.7	2606.1	2565.1	2841.7	3102.2	3455.7	3654.6	3567.5
32.5°	3300.3	3274.7	3189.3	3045.0	2844.3	2718.8	2920.3	3188.5	3622.2	3855.3	3720.4
35°	3549.7	3519.7	3442.9	3309.7	3136.4	2934.8	3062.1	3341.3	3858.7	4181.5	3927.9
37.5°	3793.8	3758.9	3675.1	3534.3	3413.0	3222.6	3257.6	3537.7	4173.0	4577.8	4202.9
40°	4067.1	4016.7	3915.1	3775.9	3658.1	3559.9	3514.6	3778.5	4492.4	5020.0	4546.1
42.5°	4331.8	4284.0	4162.7	4044.0	3896.3	3868.1	3812.6	4060.2	4841.6	5505.9	4894.5
45°	4617.0	4559.8	4412.9	4262.7	4169.6	4073.0	4101.2	4342.0	5183.9	6001.2	5260.0
47.5°	4884.2	4820.3	4646.8	4479.6	4428.3	4245.5	4366.0	4652.0	5540.0	6503.2	5622.0
50°	5028.5	4965.4	4821.1	4669.9	4629.8	4458.1	4652.9	4992.7	5913.2	7003.6	5969.6
52.5°	5149.0	5080.6	4891.9	4808.3	4796.3	4689.6	5006.4	5382.1	6286.3	7445.9	6305.2
55°	5277.0	5201.1	4960.3	4885.2	4939.8	4949.1	5425.6	5823.5	6680.8	7877.1	6621.9
57.5°	5424.8	5328.3	5026.0	4950.0	5079.8	5253.1	5907.2	6281.2	7068.5	8276.8	6903.7
60°	5564.0	5466.6	5152.4	5053.4	5231.0	5605.8	6459.7	6835.4	7507.4	8632.9	7170.2
62.5°	5591.3	5511.0	5253.1	5252.3	5435.9	6017.4	7113.8	7394.8	7890.9	8984.6	7409.2
65°	5118.2	5067.8	4915.0	5244.6	5729.6	6610.0	7842.2	8110.3	8378.3	9292.0	7619.2
67.5°	3895.4	3902.3	3891.2	4527.3	5492.3	7461.3	8896.7	8876.2	8980.4	9637.0	7860.9
70°	1781.2	1821.3	2082.6	3125.2	4400.1	7559.5	10640.3	10374.8	9736.1	10083.6	8070.1
72.5°	962.4	993.1	1099.8	1513.9	2645.3	6721.0	11943.4	12132.1	10741.1	10384.2	7840.4
75°	706.1	723.2	797.6	962.4	1110.9	4995.2	11476.3	12444.6	10866.6	9683.2	6770.5
77.5°	528.6	536.3	596.9	762.5	568.7	2633.4	9170.0	10306.5	9302.3	7955.7	5001.3
80°	383.3	392.0	437.2	572.2	398.7	963.2	6296.6	7234.1	6370.9	5071.3	2492.5
82.5°	264.8	268.1	287.7	389.4	278.4	374.0	3572.6	4242.2	3556.4	1779.5	672.9
85°	159.7	163.9	172.5	227.1	158.0	177.6	1542.1	1595.1	1063.1	425.3	209.2
87.5°	65.7	70.0	76.9	95.6	62.3	49.5	254.5	319.4	199.0	124.6	64.9
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°	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5	2913.5
2.5°	2917.8	2911.8	2895.5	2873.4	2852.9	2827.3	2816.2	2806.8	2798.2	2782.0	2774.3
5°	2935.7	2919.5	2875.9	2819.6	2755.5	2685.5	2617.1	2570.2	2530.1	2500.2	2475.5
7.5°	2963.0	2932.2	2852.9	2737.6	2590.7	2440.4	2304.6	2208.2	2135.6	2109.1	2063.0
10°	2991.2	2954.5	2816.2	2612.9	2359.3	2127.9	1947.7	1848.7	1790.6	1771.8	1742.8
12.5°	3024.5	2970.7	2758.9	2439.6	2100.5	1846.9	1689.8	1631.8	1601.9	1591.6	1594.2
15°	3073.2	2984.4	2672.7	2222.7	1853.8	1642.0	1540.5	1500.3	1484.9	1484.1	1487.5
17.5°	3109.8	2987.0	2538.6	1990.4	1664.2	1518.2	1434.6	1419.2	1429.5	1444.7	1450.8
20°	3150.8	2963.9	2362.7	1778.7	1531.0	1409.8	1374.7	1385.0	1409.8	1432.0	1439.6
22.5°	3179.9	2922.1	2150.1	1613.9	1415.7	1347.5	1345.7	1367.0	1380.8	1391.8	1397.8
25°	3205.5	2851.1	1924.6	1475.5	1321.0	1309.8	1328.7	1321.8	1312.4	1321.8	1327.8
27.5°	3224.3	2739.3	1723.1	1354.2	1254.4	1284.2	1273.2	1257.8	1257.0	1262.1	1270.6
30°	3218.3	2589.9	1557.5	1239.0	1207.4	1236.5	1210.0	1207.4	1204.9	1207.4	1216.8
32.5°	3218.3	2419.9	1430.3	1159.6	1177.5	1166.4	1163.9	1157.8	1147.6	1146.8	1157.8
35°	3236.2	2250.0	1321.0	1116.9	1152.7	1126.3	1128.0	1113.5	1092.1	1081.9	1092.1
37.5°	3272.9	2113.3	1212.6	1096.4	1109.3	1108.3	1101.6	1076.8	1039.1	1006.8	1017.8
40°	3361.8	2073.3	1138.3	1087.0	1088.8	1099.0	1081.1	1033.2	947.8	894.9	901.7
42.5°	3501.0	2140.7	1122.0	1063.9	1075.0	1085.3	1050.3	939.3	878.6	847.1	847.1
45°	3677.7	2258.6	1157.0	1030.6	1042.6	1060.6	956.3	903.4	876.1	877.0	881.2
47.5°	3901.5	2382.4	1221.9	1001.6	995.7	1005.9	894.0	861.6	824.0	833.4	857.3
50°	4160.2	2507.9	1283.4	962.4	943.5	910.2	853.9	823.2	775.3	753.2	759.1
52.5°	4440.2	2629.1	1308.2	914.5	887.2	848.8	826.6	789.0	730.9	694.2	693.3
55°	4705.8	2739.3	1280.8	857.3	830.9	800.9	797.6	774.5	712.2	660.9	660.9
57.5°	4956.8	2831.5	1212.6	799.2	773.7	755.7	778.8	767.6	689.1	623.3	619.9
60°	5169.5	2894.7	1113.5	740.4	722.4	713.0	748.0	744.6	656.6	583.2	580.7
62.5°	5338.5	2919.5	1004.2	684.0	679.7	662.7	705.3	705.3	615.6	544.0	541.4
65°	5470.9	2895.5	893.2	628.4	637.0	611.4	653.2	648.1	572.2	508.9	505.5
67.5°	5587.9	2817.0	770.2	573.8	593.5	561.0	598.6	586.6	524.3	474.0	470.5
70°	5640.0	2634.2	630.2	519.2	543.0	511.5	544.0	521.7	470.5	436.3	429.5
72.5°	5221.6	2189.4	496.1	462.0	482.5	456.8	485.0	459.4	412.5	397.1	384.3
75°	4319.9	1642.9	381.7	399.6	415.0	395.3	414.1	395.3	352.7	363.8	332.2
77.5°	3137.2	1109.3	292.0	333.8	340.7	330.5	346.7	325.3	286.9	284.3	271.5
80°	1560.0	649.8	228.9	263.8	261.3	254.5	273.3	263.0	230.5	244.3	241.7
82.5°	451.7	278.4	166.5	185.3	180.2	181.8	195.6	200.7	300.5	298.0	304.8
85°	141.8	109.3	99.9	103.3	98.2	100.8	115.3	228.9	211.8	123.8	134.1
87.5°	36.7	37.6	24.8	26.4	27.4	32.5	36.7	139.2	66.6	43.6	46.1
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)