

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: P964576

Luminaire Tested: **NAV-SB3C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23047.1 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

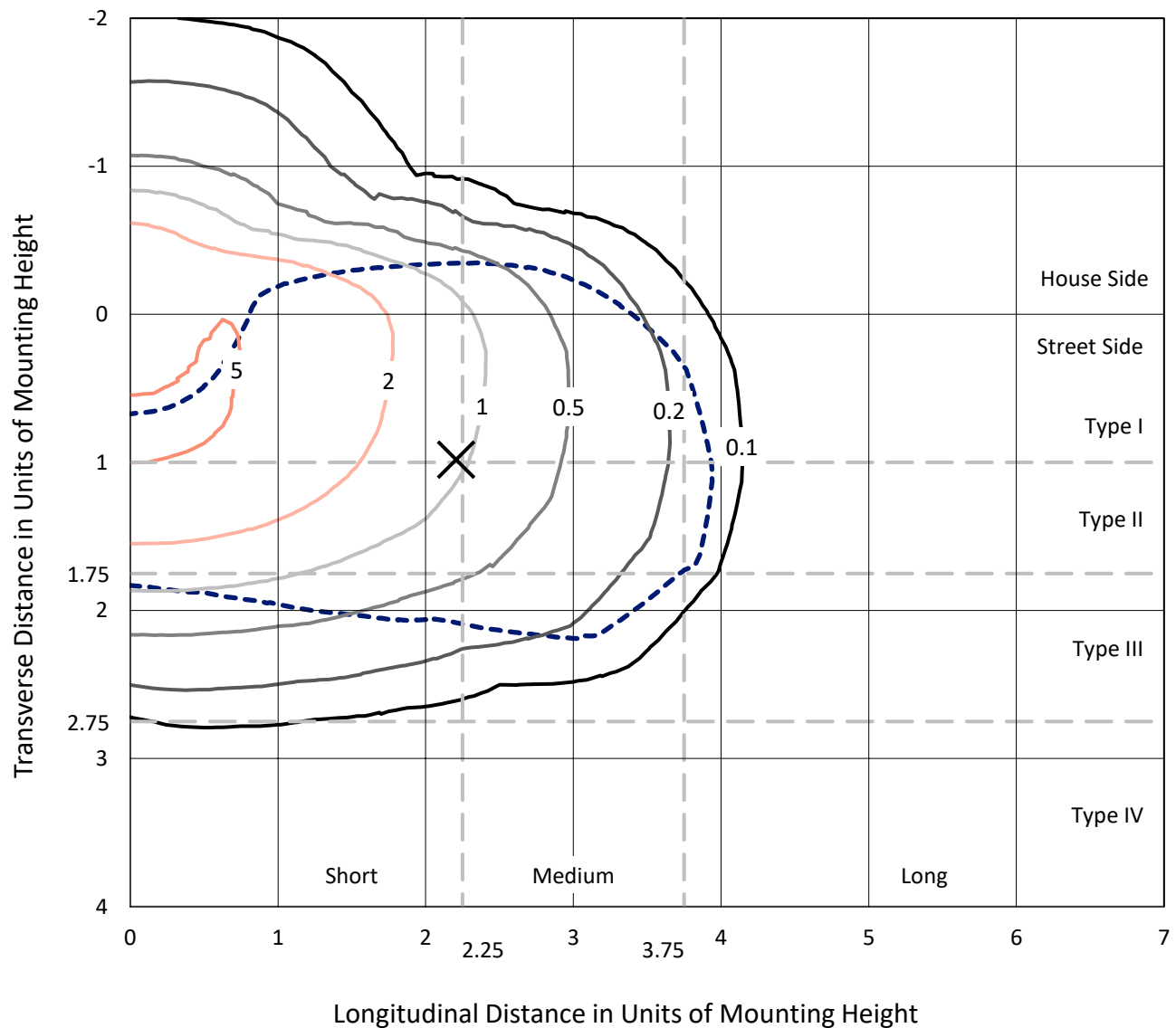
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964576
CATALOG NUMBER: NAV-SB3C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

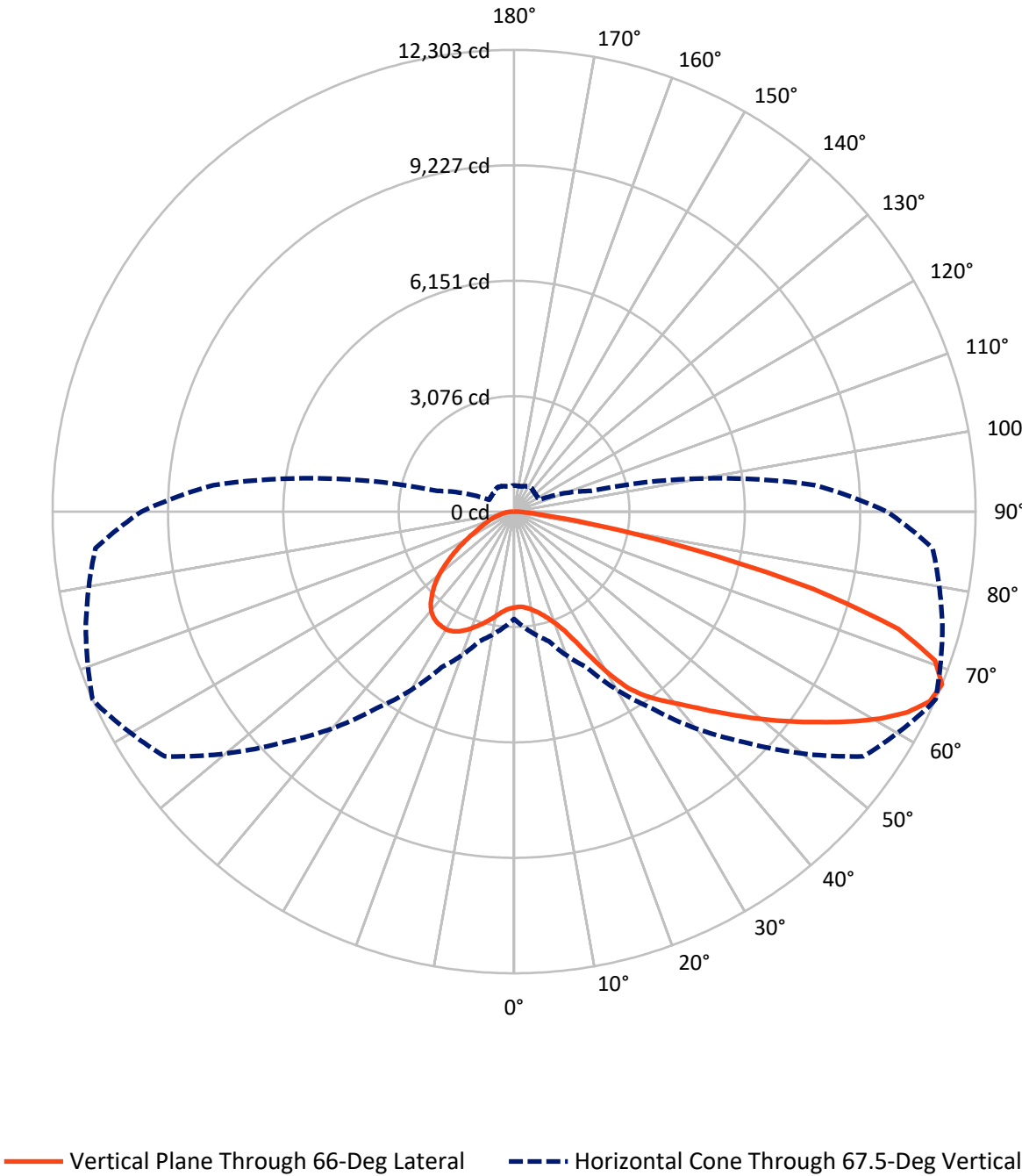
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Short - N/A

REPORT NUMBER: P964576
CATALOG NUMBER: NAV-SB3C-735-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P964576

CATALOG NUMBER: NAV-SB3C-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5730.6	0.0	5730.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17316.5	0.0	17316.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	23047.1	0.0	23047.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	1.1
10°-20°	837.3	3.6
20°-30°	1613.9	7.0
30°-40°	2829.8	12.3
40°-50°	4207.0	18.3
50°-60°	5332.7	23.1
60°-70°	5217.9	22.6
70°-80°	2489.0	10.8
80°-90°	266.0	1.2
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°	23047.1	100.0
0°-180°	23047.1	100.0

Coefficient of Utilization



REPORT NUMBER: P964576

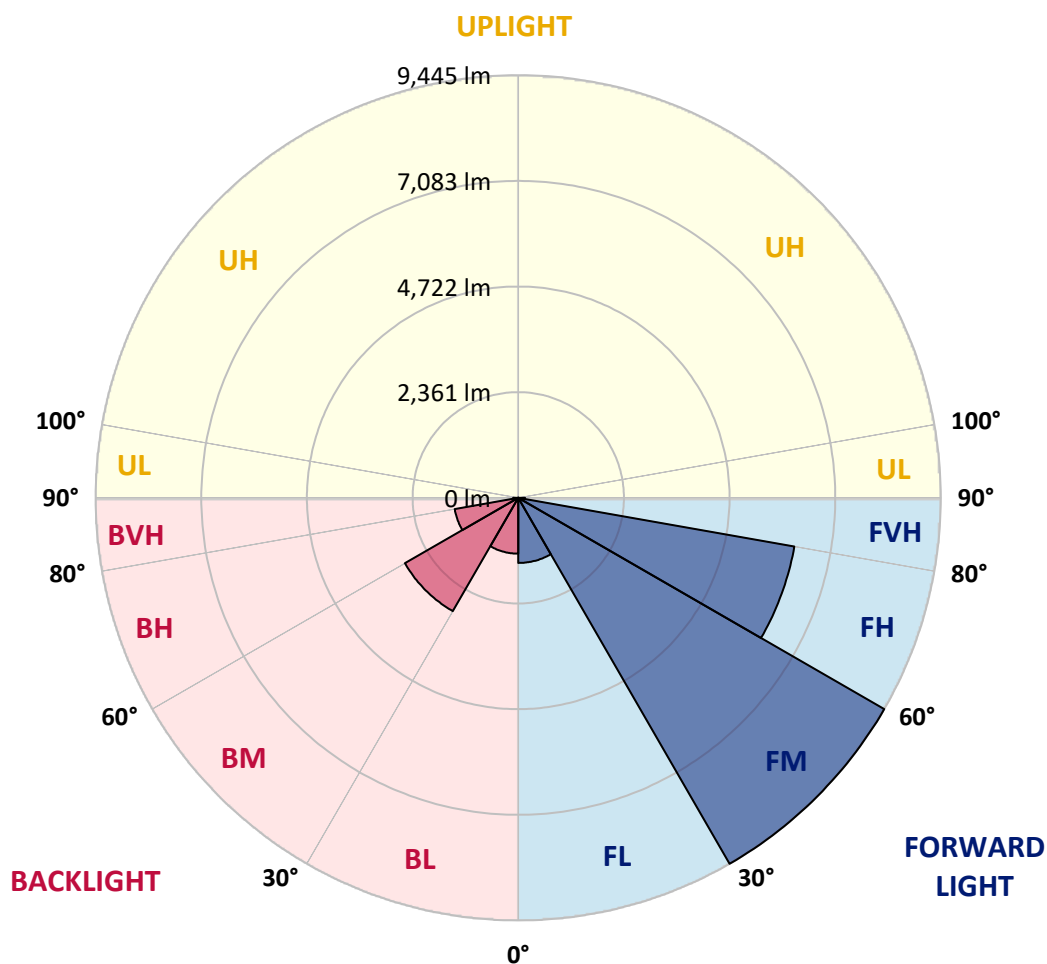
CATALOG NUMBER: NAV-SB3C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1456.3	6.3			
FM	(30°-60°)	9444.5	41.0			
FH	(60°-80°)	6264.8	27.2			G3/7500
FVH	(80°-90°)	150.8	0.7			G2/225
BL	(0°-30°)	1248.3	5.4	B3/2500		
BM	(30°-60°)	2925.0	12.7	B3/5000		
BH	(60°-80°)	1442.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	115.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P964576

CATALOG NUMBER: NAV-SB3C-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2
2.5°	2529.6	2544.2	2540.5	2534.4	2533.2	2535.6	2539.2	2542.9	2541.7	2547.7	2557.5
5°	2522.3	2536.9	2535.6	2535.6	2540.5	2550.2	2556.2	2562.3	2556.2	2563.5	2576.8
7.5°	2527.1	2538.1	2542.9	2547.7	2559.8	2578.0	2592.5	2605.9	2598.6	2607.1	2624.0
10°	2588.9	2597.5	2602.3	2602.3	2610.7	2631.3	2645.8	2670.0	2664.0	2677.3	2699.1
12.5°	2701.5	2710.0	2710.0	2705.2	2711.2	2724.6	2729.4	2756.0	2745.2	2766.9	2788.7
15°	2839.6	2856.6	2843.2	2834.7	2837.2	2850.5	2849.3	2869.9	2858.9	2877.1	2896.5
17.5°	2992.2	3013.9	2992.2	2991.0	2986.1	3000.6	3001.8	3020.1	3000.6	3013.9	3027.2
20°	3172.6	3202.8	3184.7	3190.7	3179.9	3185.9	3192.0	3218.6	3188.4	3198.0	3194.4
22.5°	3426.9	3463.2	3443.8	3466.9	3459.6	3454.8	3453.5	3500.8	3453.5	3457.1	3422.1
25°	3797.4	3841.0	3807.1	3838.6	3838.6	3854.3	3872.4	3933.0	3854.3	3831.3	3740.5
27.5°	4344.8	4388.3	4321.7	4341.1	4335.0	4373.8	4354.4	4504.6	4419.8	4382.3	4199.4
30°	5003.4	5081.0	4955.1	4950.2	4944.2	5005.9	5033.8	5133.1	5047.1	5009.6	4789.1
32.5°	5715.5	5796.6	5646.5	5602.9	5579.9	5617.4	5594.4	5674.3	5615.0	5556.8	5284.4
35°	6468.7	6548.6	6405.7	6321.0	6228.9	6150.2	6067.9	6088.5	6032.7	5944.4	5662.2
37.5°	7180.7	7327.2	7175.8	7085.0	6915.5	6761.7	6531.6	6436.0	6383.9	6302.8	6018.2
40°	7906.0	7989.6	7874.6	7797.1	7613.0	7372.0	7003.9	6801.7	6731.5	6652.8	6411.8
42.5°	8440.1	8520.0	8458.2	8404.9	8260.8	7981.1	7505.3	7252.2	7150.4	7062.0	6857.4
45°	8863.9	8923.2	8884.5	8903.9	8842.1	8570.8	8024.7	7735.3	7629.9	7522.2	7361.1
47.5°	9034.6	9097.6	9159.3	9274.4	9379.7	9179.9	8582.9	8258.4	8147.0	8036.8	7878.2
50°	9015.2	9079.4	9258.6	9503.2	9830.2	9763.5	9171.4	8815.4	8712.5	8586.5	8440.1
52.5°	8860.2	8932.9	9163.0	9569.8	10090.5	10200.7	9770.8	9390.6	9293.8	9143.6	8997.0
55°	8453.4	8496.9	8842.1	9418.4	10152.3	10505.8	10358.1	10003.3	9906.4	9697.0	9537.1
57.5°	7699.0	7761.9	8264.5	9010.4	9997.2	10712.9	10874.0	10647.5	10554.3	10252.8	10085.7
60°	6714.5	6815.0	7390.1	8325.0	9602.5	10711.7	11342.5	11280.8	11203.4	10800.1	10625.8
62.5°	5600.5	5716.7	6270.1	7356.3	8912.3	10407.7	11635.6	11811.2	11771.3	11305.0	11082.2
65°	4301.1	4381.1	4932.0	6103.0	7838.2	9755.1	11669.5	12173.3	12180.6	11688.9	11320.8
67.5°	2863.8	3093.9	3572.2	4579.7	6399.7	8688.3	11371.7	12232.7	12302.9	11820.9	11200.9
70°	1397.4	1700.2	2168.7	2976.4	4579.7	7052.3	10593.1	11745.8	11902.0	11435.8	10486.5
72.5°	580.0	678.1	933.6	1468.8	2628.9	4758.9	9028.5	10425.9	10715.3	10132.9	8816.6
75°	391.1	423.8	534.0	753.2	1197.6	2346.7	6511.1	7774.0	8240.3	7653.0	6255.6
77.5°	301.6	322.1	388.7	526.7	712.0	887.5	3485.0	4685.0	4925.9	4560.3	3254.9
80°	237.3	253.1	290.6	383.9	504.9	474.7	1187.9	2122.8	2262.0	1897.5	1046.2
82.5°	205.8	211.9	208.3	260.3	335.4	277.3	389.9	783.4	864.6	627.3	341.4
85°	148.9	165.8	173.1	161.0	178.0	140.4	159.8	277.3	305.1	272.4	192.5
87.5°	60.6	89.6	110.2	104.1	65.4	40.0	49.6	81.2	93.3	101.7	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964576

CATALOG NUMBER: NAV-SB3C-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2	2556.2
2.5°	2558.6	2567.1	2573.2	2580.4	2585.3	2592.5	2607.1	2615.6	2616.8	2622.9	2621.6
5°	2581.7	2593.8	2607.1	2626.5	2648.3	2666.4	2694.3	2713.7	2721.0	2727.0	2725.8
7.5°	2631.3	2648.3	2672.5	2706.4	2737.9	2762.1	2796.0	2819.0	2842.0	2850.5	2851.7
10°	2705.2	2729.4	2764.5	2810.5	2844.5	2875.9	2911.0	2930.4	2953.4	2963.1	2968.0
12.5°	2797.2	2822.6	2868.7	2932.8	2964.3	2986.1	2998.2	2993.4	2998.2	3006.7	3009.1
15°	2902.6	2930.4	2982.4	3051.5	3073.3	3053.9	3027.2	3003.0	2999.5	3001.8	3010.3
17.5°	3027.2	3047.8	3108.4	3166.5	3150.7	3070.9	3012.8	2974.0	2954.7	2948.5	2957.0
20°	3201.7	3201.7	3251.3	3287.6	3182.3	3046.6	2955.8	2892.9	2852.9	2836.0	2832.3
22.5°	3413.6	3394.2	3425.7	3400.2	3176.2	2978.9	2852.9	2743.9	2683.3	2659.2	2655.6
25°	3682.4	3659.4	3650.8	3493.5	3132.6	2871.0	2666.4	2534.4	2481.1	2467.8	2470.2
27.5°	4088.0	4029.9	3919.7	3544.3	3052.7	2701.5	2448.4	2326.1	2295.9	2297.1	2300.7
30°	4628.1	4511.8	4241.9	3552.9	2922.0	2461.7	2225.7	2138.5	2123.9	2130.0	2150.6
32.5°	5128.2	5018.0	4571.2	3514.1	2721.0	2226.8	2025.8	1967.7	1946.0	1953.2	1962.9
35°	5520.5	5490.3	4876.3	3459.6	2473.9	2006.4	1846.6	1797.0	1754.6	1745.0	1752.2
37.5°	5891.1	5879.0	5105.2	3383.3	2229.3	1850.2	1702.5	1637.1	1575.4	1541.5	1542.7
40°	6297.9	6285.8	5255.4	3265.9	2012.5	1714.6	1573.0	1487.0	1410.7	1349.0	1355.0
42.5°	6755.7	6684.2	5326.8	3097.5	1828.5	1599.6	1467.6	1351.4	1250.9	1193.9	1197.6
45°	7255.8	7094.7	5325.6	2883.2	1673.5	1494.2	1355.0	1190.3	1097.1	1043.8	1041.4
47.5°	7786.1	7487.0	5260.2	2645.8	1523.4	1378.0	1180.6	1054.7	992.9	960.2	952.9
50°	8333.5	7854.0	5148.8	2373.4	1369.5	1246.0	1071.6	985.6	938.5	908.2	897.3
52.5°	8848.1	8187.0	5014.4	2064.6	1213.3	1117.7	1023.3	956.6	907.0	873.1	858.5
55°	9326.5	8474.0	4824.3	1748.5	1086.2	1031.7	1000.2	944.5	887.5	847.7	831.9
57.5°	9751.4	8660.4	4496.1	1451.9	995.4	972.3	976.0	923.9	858.5	824.6	802.9
60°	10105.1	8797.3	4010.5	1177.0	921.5	914.2	938.5	885.2	808.9	770.2	753.2
62.5°	10316.9	8794.8	3414.8	963.9	858.5	861.0	888.8	836.7	759.2	722.9	712.0
65°	10298.8	8579.2	2760.8	824.6	798.0	800.4	836.7	783.4	718.1	696.3	695.1
67.5°	9934.3	8053.7	2117.9	733.8	731.4	742.3	784.6	747.1	692.6	690.2	693.8
70°	8947.4	6962.7	1525.7	661.1	662.4	678.1	733.8	724.2	679.4	684.2	683.0
72.5°	7174.6	5308.7	1024.4	584.9	586.1	611.5	685.4	705.9	666.0	730.2	739.8
75°	4778.2	3310.6	658.8	503.8	504.9	537.6	643.0	670.9	629.7	727.7	733.8
77.5°	2295.9	1488.2	477.1	423.8	423.8	454.1	555.9	600.6	536.4	565.5	518.2
80°	793.1	559.4	375.4	341.4	334.3	354.8	468.6	520.7	462.6	426.2	399.6
82.5°	312.4	290.6	301.6	265.2	241.0	254.3	364.5	429.9	340.3	307.6	306.4
85°	179.2	188.9	213.1	175.6	139.3	156.2	267.6	308.8	256.8	226.4	231.2
87.5°	48.5	66.6	98.1	90.8	62.9	66.6	127.1	170.8	147.7	113.8	117.5
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)