

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: P970031

Luminaire Tested: **NAV-SB6A-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26549.5 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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



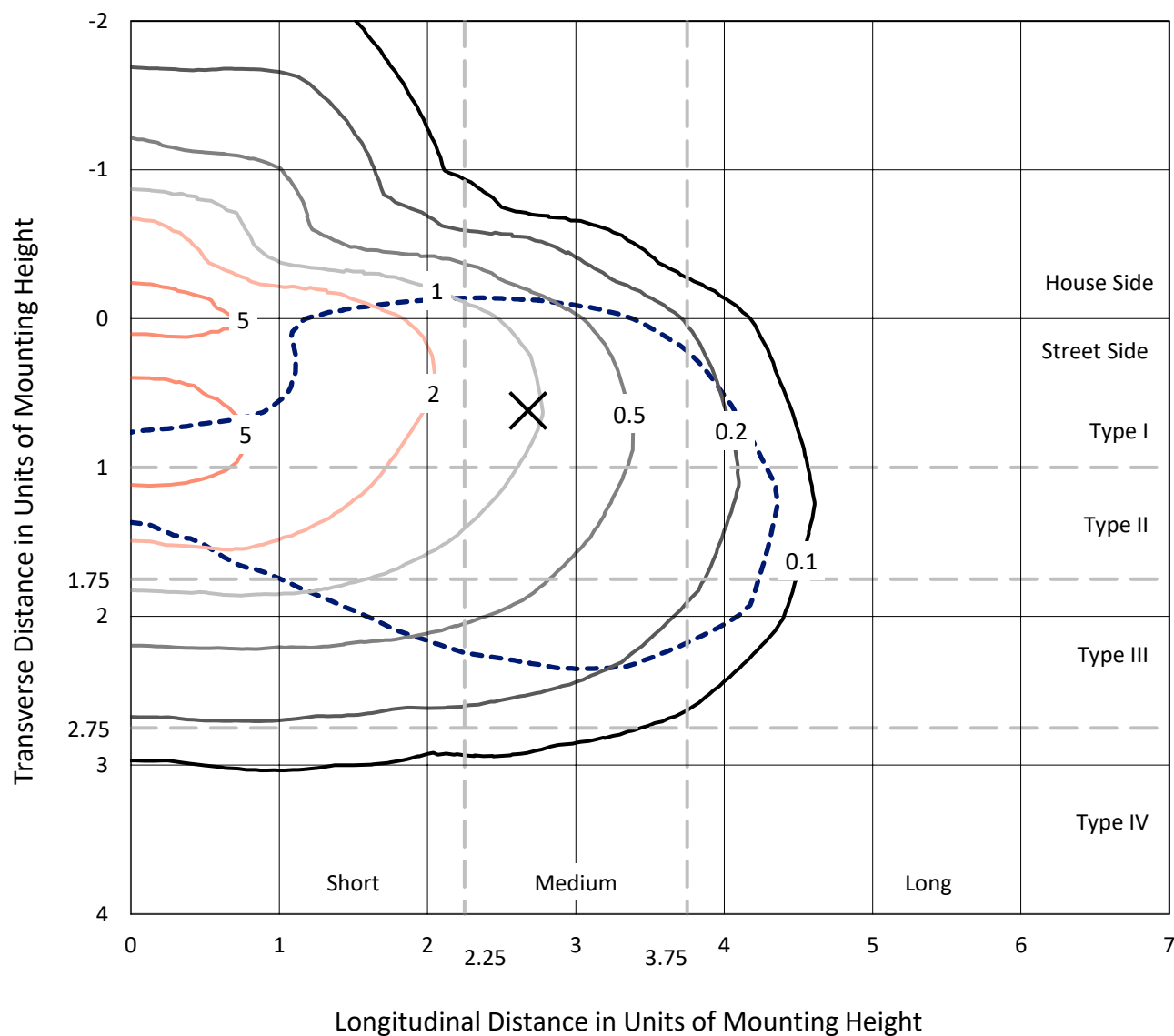
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

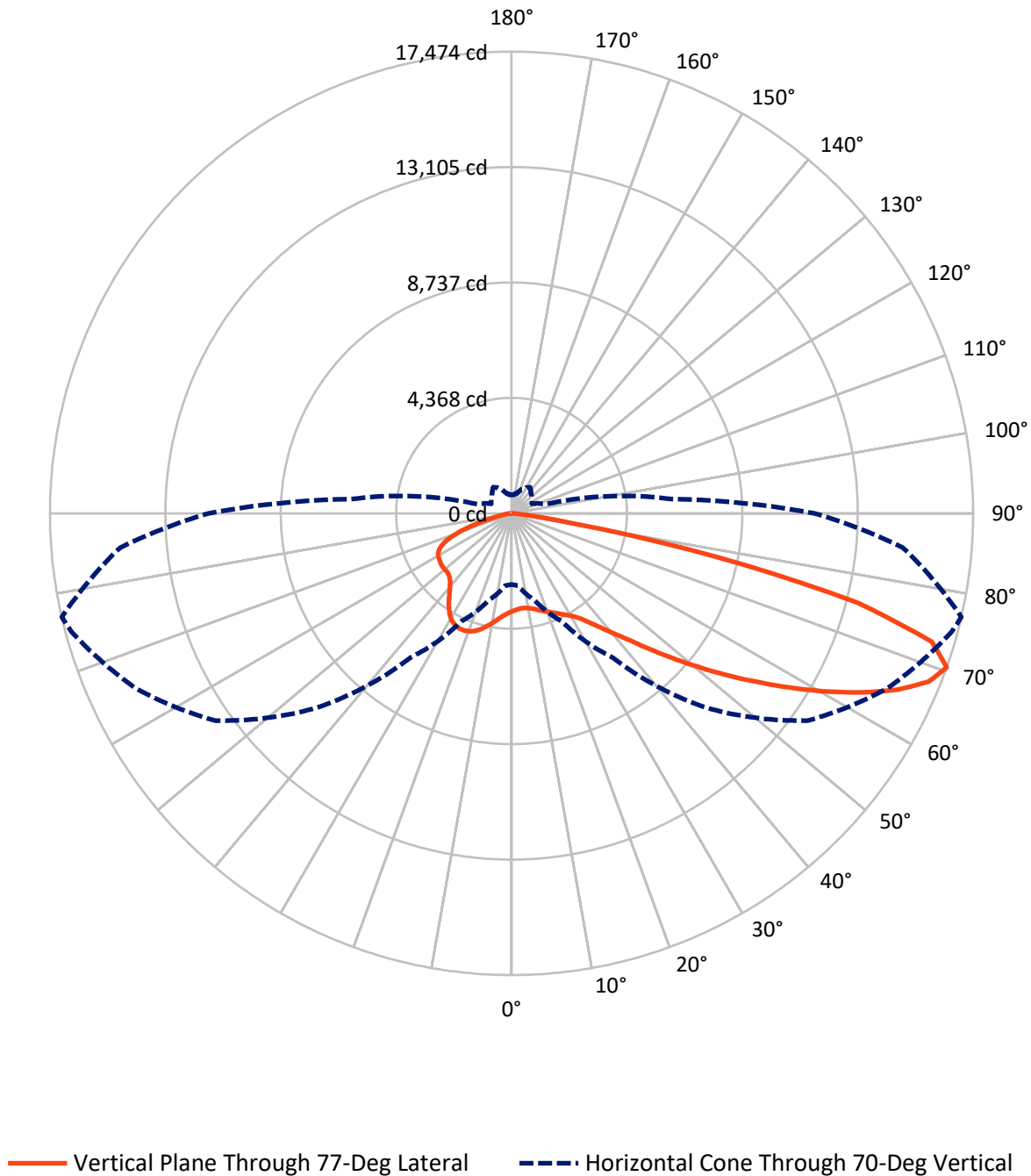
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5813.9	0.0	5813.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20735.6	0.0	20735.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	26549.5	0.0	26549.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.3
10°-20°	1019.5	3.8
20°-30°	1743.5	6.6
30°-40°	2803.8	10.6
40°-50°	4377.4	16.5
50°-60°	5847.2	22.0
60°-70°	6232.2	23.5
70°-80°	3836.5	14.5
80°-90°	336.2	1.3
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°	26549.5	100.0
0°-180°	26549.5	100.0

Coefficient of Utilization



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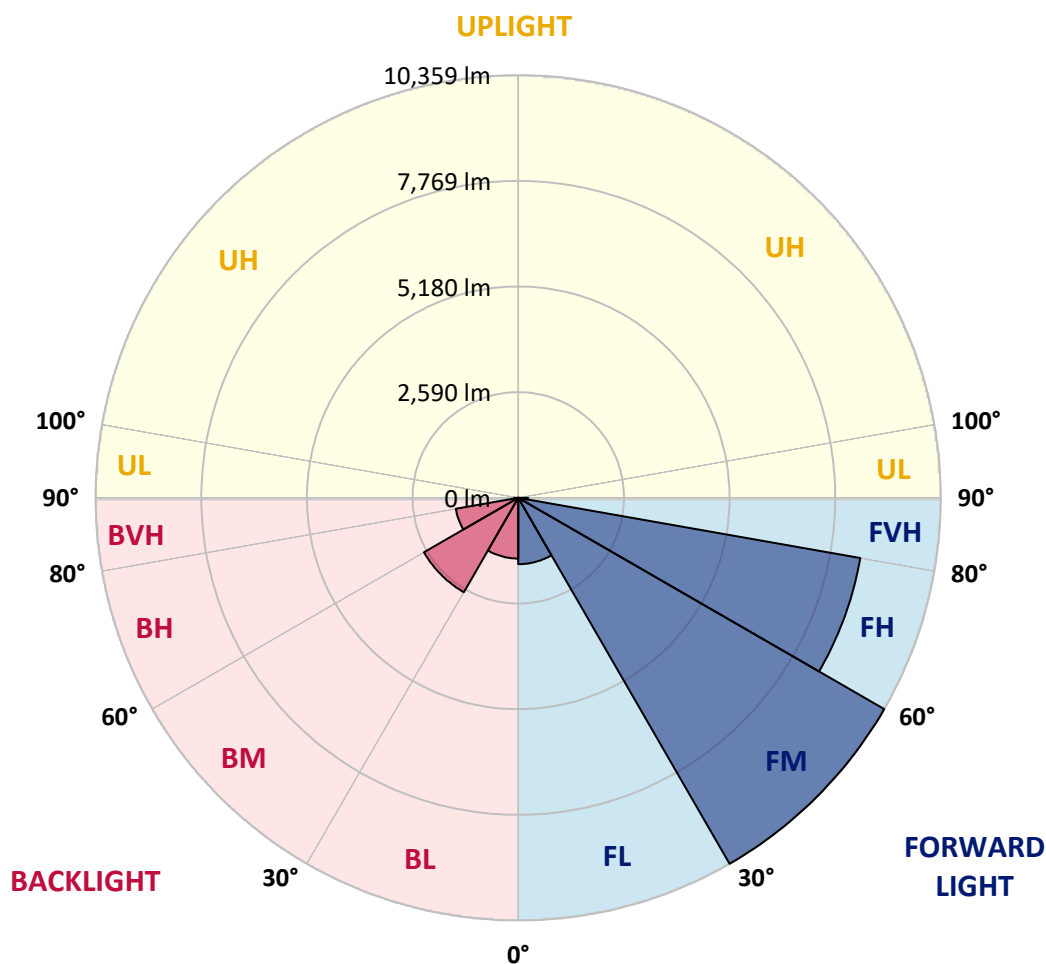
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1626.6	6.1			
FM	(30°-60°)	10359.1	39.0			
FH	(60°-80°)	8514.9	32.1			G4/12000
FVH	(80°-90°)	235.1	0.9			G3/500
BL	(0°-30°)	1489.7	5.6	B3/2500		
BM	(30°-60°)	2669.3	10.1	B3/5000		
BH	(60°-80°)	1553.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	101.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9
2.5°	3414.3	3412.9	3430.6	3436.0	3468.7	3491.8	3535.3	3581.6	3641.3	3648.2	3684.9
5°	3217.2	3217.2	3237.6	3259.3	3301.4	3347.6	3414.3	3494.5	3597.9	3614.2	3705.3
7.5°	3049.9	3060.8	3078.4	3120.6	3169.5	3236.1	3338.1	3452.4	3588.3	3614.2	3761.0
10°	2915.3	2927.5	2949.2	2983.3	3056.7	3149.1	3282.4	3429.2	3611.5	3652.3	3842.6
12.5°	2873.1	2885.4	2897.6	2923.4	2991.4	3100.2	3259.3	3440.1	3667.1	3707.9	3954.1
15°	2971.0	2985.9	2976.5	2969.6	3005.0	3104.2	3270.2	3479.6	3736.5	3795.0	4091.4
17.5°	3196.8	3202.2	3180.4	3116.5	3111.1	3164.1	3321.8	3533.9	3823.6	3887.5	4230.1
20°	3561.2	3551.6	3506.7	3380.2	3308.2	3297.3	3410.2	3615.5	3913.3	3981.3	4379.7
22.5°	4056.0	4045.2	3955.5	3755.6	3595.1	3489.1	3538.0	3721.6	4013.9	4090.1	4525.2
25°	4673.4	4658.4	4526.5	4254.6	4005.8	3743.3	3712.0	3861.6	4137.6	4208.3	4677.5
27.5°	5394.1	5381.8	5239.1	4880.0	4521.1	4091.4	3928.2	4026.2	4266.9	4347.0	4848.8
30°	6169.1	6204.4	5951.6	5565.3	5111.3	4545.6	4219.2	4228.7	4434.0	4506.1	5056.8
32.5°	7080.1	7141.3	6836.7	6347.2	5727.2	5039.2	4586.4	4511.5	4677.5	4737.3	5319.2
35°	7983.0	8052.3	7799.4	7258.2	6544.4	5621.1	4969.8	4836.6	5001.1	5066.4	5667.3
37.5°	8763.4	8855.9	8725.4	8254.9	7418.6	6322.7	5470.2	5218.7	5399.5	5481.1	6135.1
40°	9379.5	9520.8	9511.3	9217.6	8449.4	7174.0	6105.2	5690.5	5894.5	5982.8	6702.1
42.5°	9879.8	10002.2	10108.2	10093.3	9524.9	8140.7	6851.7	6303.7	6458.7	6560.7	7339.8
45°	10225.2	10355.7	10584.2	10830.3	10559.7	9175.5	7707.0	7031.2	7172.5	7326.2	8100.0
47.5°	10533.8	10682.0	10978.5	11368.7	11438.1	10214.3	8643.8	7878.3	8007.4	8166.6	8862.8
50°	10561.0	10688.8	11148.4	11701.8	12062.2	11212.4	9650.0	8828.7	8949.8	9119.7	9679.9
52.5°	9904.3	10105.5	10907.7	11692.3	12349.1	12047.2	10649.4	9817.2	9953.3	10157.1	10525.6
55°	7687.9	7983.0	10202.0	11327.9	12247.1	12587.0	11599.8	10868.3	11042.3	11255.8	11376.9
57.5°	6621.9	6751.1	8098.5	10664.4	11782.1	12727.1	12402.1	11930.3	12210.4	12444.2	12277.0
60°	5951.6	6059.0	6855.7	9632.3	11170.1	12505.4	13022.1	12920.1	13404.2	13682.9	13197.5
62.5°	5233.6	5335.5	6060.3	8042.8	10386.9	12136.9	13413.8	13833.9	14628.0	14932.5	14065.0
65°	4521.1	4608.1	5302.9	6757.8	9391.7	11768.4	13616.3	14623.9	15760.6	16076.1	14785.7
67.5°	3727.0	3799.1	4455.9	5701.4	8181.4	11264.0	13717.0	15245.3	16746.4	17017.0	15141.9
70°	2689.5	2745.3	3423.8	4508.9	6662.7	10396.5	13676.2	15685.9	17257.7	17473.9	14872.7
72.5°	1271.3	1321.6	2118.5	2927.5	4706.0	8707.7	12850.8	15336.4	16738.2	16630.8	13224.8
75°	678.6	722.0	1217.0	1605.9	2485.6	5969.2	10516.2	13211.1	14055.5	13533.4	9773.8
77.5°	459.6	493.5	753.3	964.0	1135.4	2833.7	6759.3	9146.9	8800.1	7938.1	4895.0
80°	364.4	399.7	617.4	652.7	549.3	1023.9	2792.9	4234.2	3041.7	2432.5	1392.4
82.5°	280.1	319.5	519.4	473.1	299.1	420.1	813.1	1339.4	779.1	592.9	337.2
85°	171.3	213.5	408.0	301.9	168.6	191.7	276.0	372.6	237.9	198.5	121.1
87.5°	87.0	122.4	206.6	110.2	76.2	44.9	73.4	73.4	62.5	54.4	31.3
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°	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9	3703.9
2.5°	3717.5	3744.7	3791.0	3834.4	3868.5	3901.0	3933.7	3951.4	3956.8	3978.5	3990.8
5°	3761.0	3811.4	3901.0	3985.4	4038.4	4071.0	4094.2	4107.8	4110.5	4117.2	4128.2
7.5°	3841.2	3921.4	4046.6	4130.9	4170.3	4167.5	4158.0	4124.1	4110.5	4098.3	4100.9
10°	3954.1	4060.1	4213.8	4272.3	4247.8	4182.5	4098.3	3998.9	3952.7	3907.9	3894.3
12.5°	4094.2	4228.7	4379.7	4377.0	4256.0	4088.7	3893.0	3740.6	3644.1	3574.7	3558.4
15°	4264.1	4419.1	4534.7	4442.2	4177.1	3876.6	3589.7	3391.2	3304.2	3228.0	3219.8
17.5°	4439.5	4605.4	4658.4	4421.8	3978.5	3562.5	3237.6	3081.1	2995.5	2954.7	2967.0
20°	4610.9	4775.4	4731.8	4304.9	3676.7	3206.2	2916.6	2830.9	2813.3	2822.8	2818.7
22.5°	4791.7	4938.6	4746.8	4079.2	3291.9	2841.8	2682.7	2685.5	2724.9	2753.5	2760.2
25°	4976.6	5075.9	4707.4	3752.8	2878.5	2574.0	2534.5	2578.1	2655.6	2711.3	2726.3
27.5°	5154.7	5198.3	4621.7	3349.0	2523.7	2382.2	2389.1	2478.8	2595.7	2673.2	2692.3
30°	5355.9	5307.0	4457.2	2894.9	2277.5	2217.7	2274.8	2379.5	2496.5	2565.8	2582.1
32.5°	5583.1	5400.8	4196.1	2474.7	2103.5	2085.9	2179.7	2247.6	2299.3	2319.7	2330.5
35°	5865.9	5532.7	3861.6	2179.7	1947.1	1989.3	2079.0	2045.1	2024.7	2013.7	2024.7
37.5°	6233.0	5710.9	3470.0	1987.9	1820.7	1919.9	1956.6	1850.6	1770.4	1730.9	1740.4
40°	6674.9	5972.0	3093.3	1839.7	1740.4	1860.1	1796.2	1668.4	1566.4	1510.6	1514.7
42.5°	7165.8	6245.2	2776.5	1728.3	1695.6	1811.2	1677.9	1525.6	1361.1	1343.4	1361.1
45°	7681.1	6526.7	2560.3	1642.6	1673.8	1769.0	1610.0	1363.8	1246.9	1319.0	1357.0
47.5°	8196.4	6785.1	2429.9	1578.6	1663.0	1721.4	1550.1	1274.1	1191.2	1295.8	1344.8
50°	8770.2	7016.2	2371.3	1532.4	1650.8	1702.4	1460.3	1250.9	1132.6	1202.0	1253.7
52.5°	9340.0	7195.7	2327.9	1486.1	1633.0	1687.5	1416.9	1223.7	1061.9	1066.0	1094.6
55°	9908.4	7312.7	2280.3	1425.0	1593.6	1654.8	1412.8	1193.8	1008.9	989.8	1003.5
57.5°	10514.8	7379.3	2221.8	1357.0	1525.6	1571.8	1408.7	1170.8	992.6	961.3	965.4
60°	11132.1	7477.2	2145.6	1274.1	1434.5	1472.6	1399.1	1162.6	983.1	930.1	934.2
62.5°	11685.5	7511.1	2054.5	1195.3	1317.5	1374.7	1378.7	1155.8	957.2	866.1	866.1
65°	12048.6	7364.3	1895.4	1105.5	1191.2	1274.1	1339.4	1132.6	911.0	819.9	819.9
67.5°	12033.6	6945.5	1646.7	989.8	1068.8	1162.6	1282.3	1093.3	855.3	762.8	766.9
70°	11473.4	6118.7	1331.2	855.3	934.2	1042.9	1208.8	1034.7	788.6	700.3	708.4
72.5°	9840.4	4789.0	966.8	697.5	777.8	919.2	1113.7	964.0	720.7	644.5	640.4
75°	7029.8	3030.8	655.4	535.8	605.1	779.1	995.3	881.1	658.2	647.2	610.5
77.5°	3591.1	1448.1	433.8	391.7	421.5	614.6	836.2	787.3	667.6	534.3	475.9
80°	1168.0	534.3	273.3	266.5	280.1	409.3	647.2	645.9	505.8	363.1	320.9
82.5°	372.6	229.8	178.1	171.3	164.5	257.0	451.4	511.3	341.3	229.8	228.5
85°	148.2	137.4	104.7	96.6	69.4	121.1	236.6	339.9	254.3	165.8	169.9
87.5°	54.4	54.4	28.6	20.4	15.0	40.8	63.9	102.0	145.4	85.7	84.3
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)