

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: P969969

Luminaire Tested: **NAV-SB6A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969969
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-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24890.1 lumens
Efficiency: N/A
Efficacy: 145.6 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



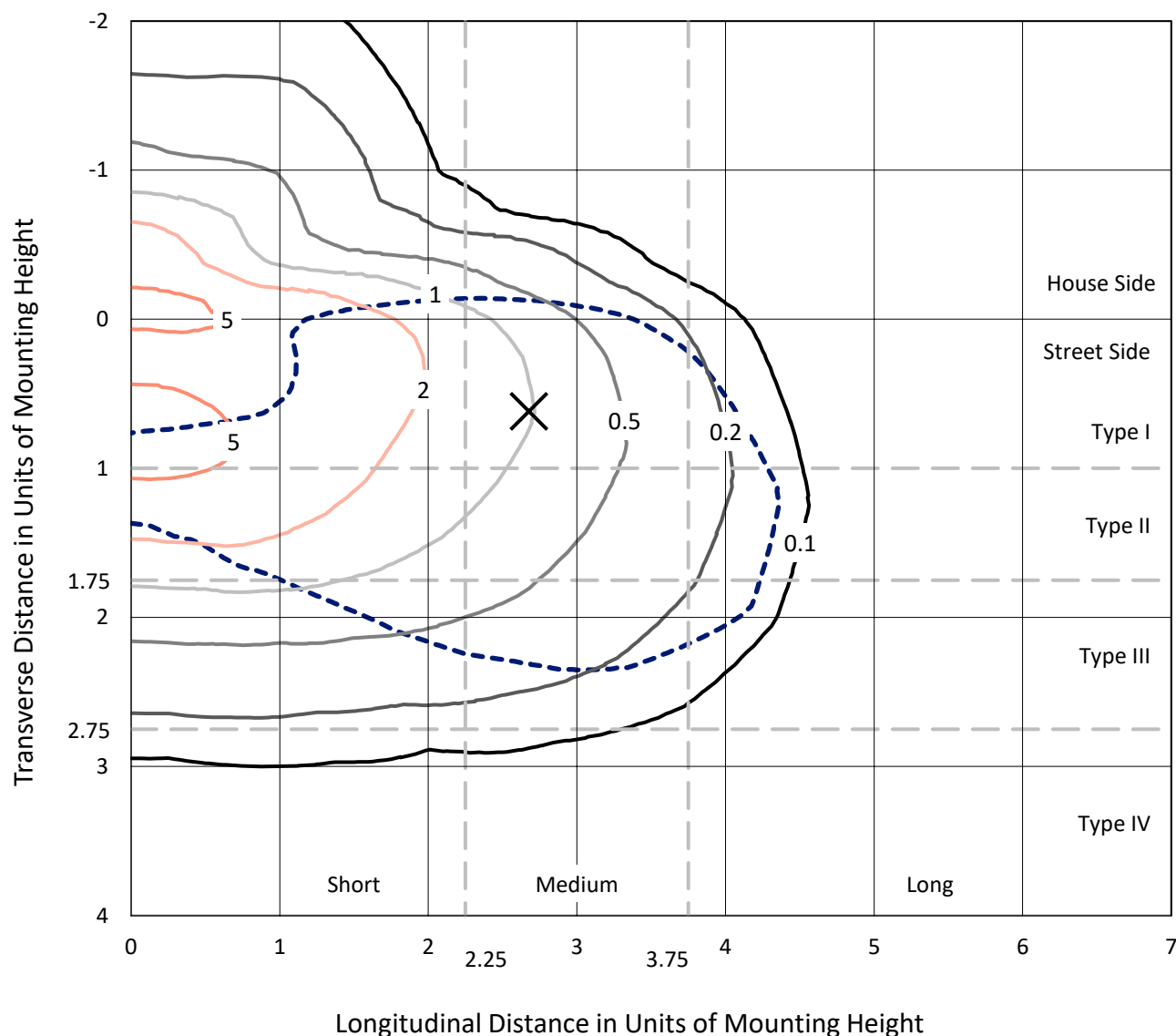
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

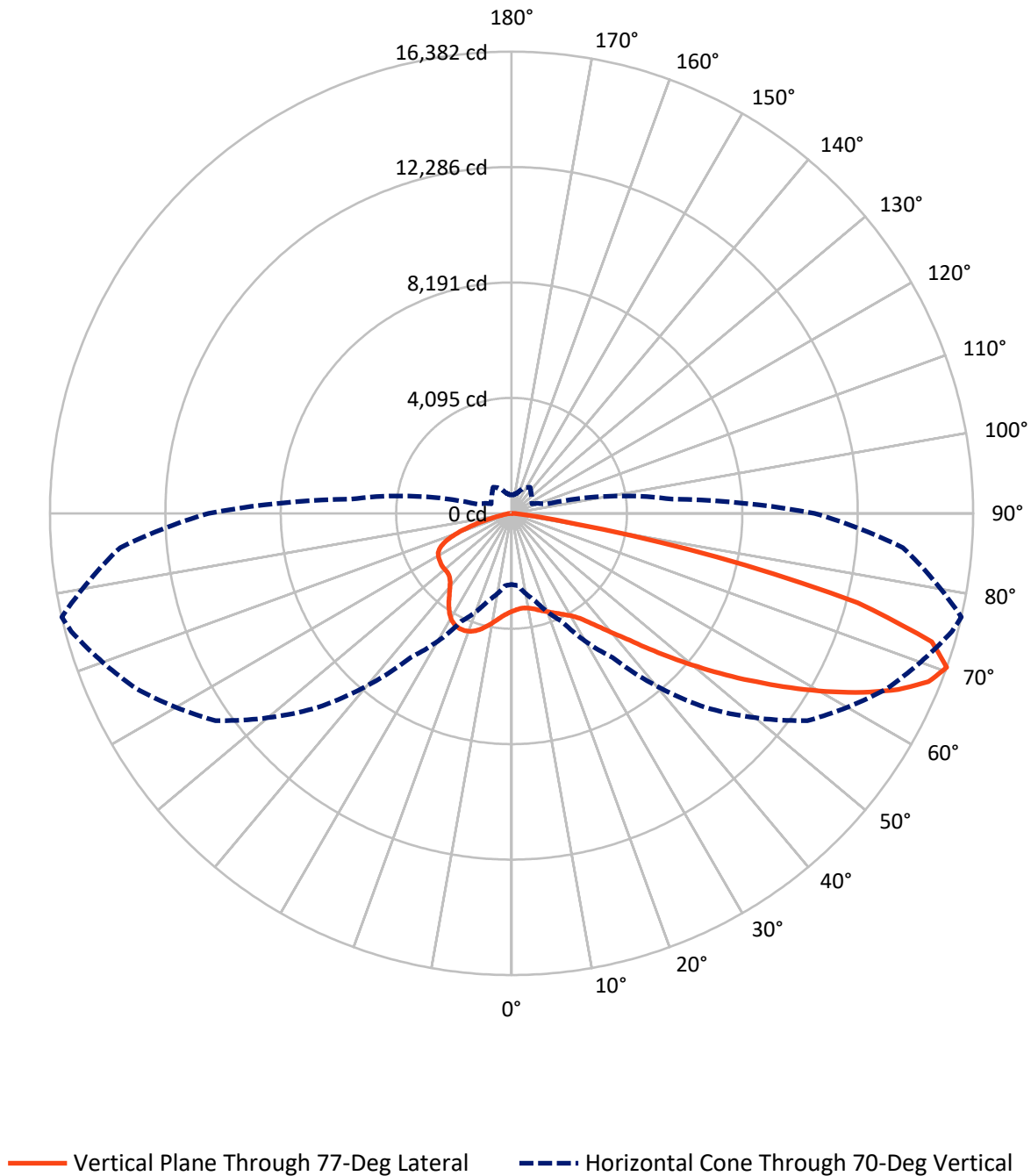


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

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	5450.5	0.0	5450.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19439.5	0.0	19439.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	24890.1	0.0	24890.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.3
10°-20°	955.8	3.8
20°-30°	1634.6	6.6
30°-40°	2628.5	10.6
40°-50°	4103.8	16.5
50°-60°	5481.7	22.0
60°-70°	5842.6	23.5
70°-80°	3596.7	14.5
80°-90°	315.2	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°	24890.1	100.0
0°-180°	24890.1	100.0

Coefficient of Utilization



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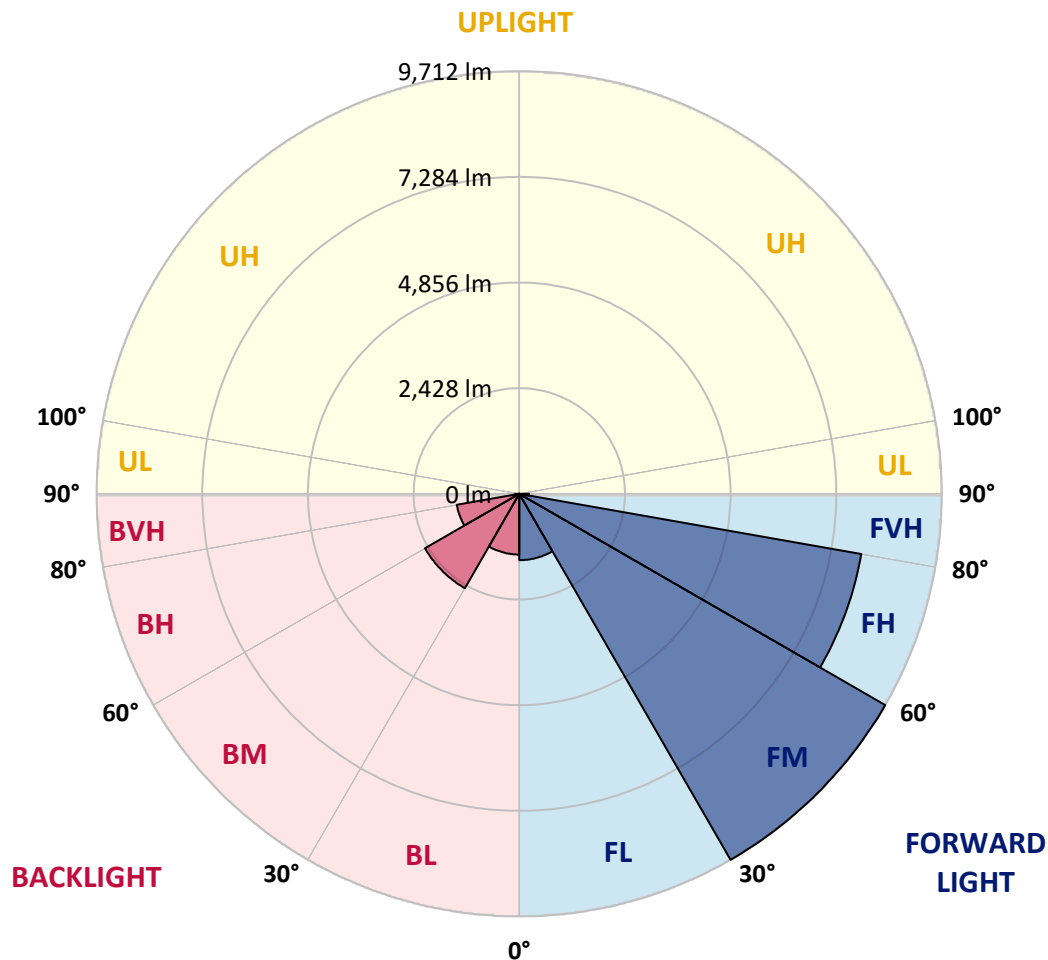
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1524.9	6.1			
FM	(30°-60°)	9711.6	39.0			
FH	(60°-80°)	7982.7	32.1			G4/12000
FVH	(80°-90°)	220.4	0.9			G2/225
BL	(0°-30°)	1396.6	5.6	B3/2500		
BM	(30°-60°)	2502.5	10.1	B3/5000		
BH	(60°-80°)	1456.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	94.8	0.4			G1/100
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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3200.9	3199.6	3216.1	3221.3	3251.8	3273.5	3314.3	3357.7	3413.8	3420.1	3454.6
5°	3016.1	3016.1	3035.1	3055.5	3095.1	3138.4	3200.9	3276.1	3373.0	3388.2	3473.6
7.5°	2859.2	2869.5	2886.0	2925.6	2971.4	3033.9	3129.5	3236.5	3364.0	3388.2	3525.9
10°	2733.1	2744.5	2764.9	2796.8	2865.6	2952.3	3077.3	3214.9	3385.7	3423.9	3602.5
12.5°	2693.5	2705.0	2716.5	2740.6	2804.4	2906.4	3055.5	3225.1	3438.0	3476.2	3706.9
15°	2785.3	2799.4	2790.4	2784.0	2817.2	2910.3	3065.8	3262.1	3502.9	3557.8	3835.7
17.5°	2996.9	3002.0	2981.6	2921.7	2916.6	2966.4	3114.2	3313.0	3584.5	3644.5	3965.7
20°	3338.5	3329.6	3287.6	3169.0	3101.4	3091.2	3197.1	3389.6	3668.7	3732.4	4105.9
22.5°	3802.5	3792.4	3708.2	3520.9	3370.4	3271.0	3316.9	3489.0	3763.1	3834.4	4242.4
25°	4381.3	4367.2	4243.6	3988.7	3755.4	3509.4	3480.1	3620.3	3879.0	3945.3	4385.2
27.5°	5056.9	5045.5	4911.6	4575.1	4238.5	3835.7	3682.7	3774.5	4000.2	4075.3	4545.8
30°	5783.5	5816.7	5579.6	5217.6	4791.8	4261.4	3955.5	3964.4	4156.9	4224.5	4740.7
32.5°	6637.6	6694.9	6409.4	5950.5	5369.2	4724.2	4299.7	4229.6	4385.2	4441.2	4986.8
35°	7484.0	7549.0	7311.9	6804.6	6135.3	5269.7	4659.1	4534.3	4688.5	4749.6	5313.1
37.5°	8215.7	8302.4	8180.0	7739.0	6954.9	5927.6	5128.3	4892.4	5062.0	5138.4	5751.6
40°	8793.2	8925.7	8916.8	8641.5	7921.2	6725.5	5723.6	5334.8	5526.0	5608.9	6283.1
42.5°	9262.3	9377.0	9476.4	9462.4	8929.6	7631.8	6423.4	5909.7	6055.0	6150.6	6881.0
45°	9586.0	9708.4	9922.6	10153.3	9899.7	8601.9	7225.2	6591.7	6724.2	6868.3	7593.6
47.5°	9875.4	10014.4	10292.2	10658.1	10723.1	9575.9	8103.5	7385.8	7506.9	7656.1	8308.8
50°	9900.9	10020.7	10451.6	10970.4	11308.2	10511.5	9046.9	8276.9	8390.3	8549.7	9074.8
52.5°	9285.2	9473.9	10226.0	10961.5	11577.2	11294.2	9983.8	9203.6	9331.1	9522.4	9867.8
55°	7207.4	7484.0	9564.4	10619.8	11481.5	11800.3	10874.8	10189.0	10352.2	10552.3	10665.7
57.5°	6208.0	6329.1	7592.4	9997.7	11045.6	11931.6	11626.9	11184.6	11447.2	11666.4	11509.6
60°	5579.6	5680.2	6427.3	9030.2	10472.0	11723.7	12208.2	12112.6	12566.4	12827.7	12372.7
62.5°	4906.5	5002.1	5681.5	7540.1	9737.7	11378.3	12575.3	12969.2	13713.7	13999.2	13185.9
65°	4238.5	4320.1	4971.5	6335.4	8804.6	11032.9	12765.2	13709.8	14775.5	15071.3	13861.5
67.5°	3494.0	3561.7	4177.3	5345.0	7670.1	10560.0	12859.5	14292.4	15699.7	15953.4	14195.5
70°	2521.4	2573.7	3209.8	4227.0	6246.2	9746.6	12821.3	14705.4	16179.0	16381.7	13943.1
72.5°	1191.9	1239.0	1986.0	2744.5	4411.9	8163.4	12047.5	14377.8	15692.0	15591.4	12398.1
75°	636.1	676.9	1140.9	1505.4	2330.2	5596.1	9858.9	12385.4	13177.0	12687.4	9162.8
77.5°	430.9	462.7	706.2	903.7	1064.4	2656.6	6336.8	8575.2	8250.1	7441.9	4589.0
80°	341.6	374.7	578.7	611.9	515.0	959.9	2618.4	3969.5	2851.5	2280.5	1305.3
82.5°	262.6	299.6	487.0	443.6	280.4	393.9	762.3	1255.6	730.4	555.8	316.1
85°	160.6	200.2	382.4	283.0	158.1	179.8	258.8	349.3	223.0	186.1	113.5
87.5°	81.6	114.7	193.7	103.2	71.3	42.0	68.9	68.9	58.6	50.9	29.3
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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3485.1	3510.6	3554.0	3594.8	3626.7	3657.2	3687.8	3704.3	3709.5	3729.9	3741.4
5°	3525.9	3573.0	3657.2	3736.2	3785.9	3816.6	3838.2	3851.0	3853.6	3859.9	3870.1
7.5°	3601.1	3676.4	3793.6	3872.7	3909.7	3907.1	3898.2	3866.3	3853.6	3842.1	3844.6
10°	3706.9	3806.3	3950.5	4005.2	3982.3	3921.1	3842.1	3749.0	3705.7	3663.6	3650.8
12.5°	3838.2	3964.4	4105.9	4103.4	3989.9	3833.2	3649.6	3506.8	3416.3	3351.3	3336.0
15°	3997.6	4142.9	4251.3	4164.6	3916.0	3634.2	3365.3	3179.2	3097.7	3026.2	3018.6
17.5°	4162.0	4317.5	4367.2	4145.4	3729.9	3339.9	3035.1	2888.6	2808.3	2770.0	2781.4
20°	4322.6	4476.9	4436.1	4035.8	3446.9	3005.8	2734.3	2654.0	2637.4	2646.3	2642.6
22.5°	4492.2	4629.8	4450.1	3824.2	3086.2	2664.2	2515.0	2517.6	2554.6	2581.4	2587.7
25°	4665.6	4758.6	4413.1	3518.3	2698.6	2413.1	2376.2	2417.0	2489.5	2541.8	2555.8
27.5°	4832.6	4873.4	4332.9	3139.7	2365.9	2233.4	2239.7	2323.9	2433.5	2506.1	2524.0
30°	5021.2	4975.3	4178.6	2713.9	2135.2	2079.1	2132.6	2230.8	2340.4	2405.5	2420.7
32.5°	5234.1	5063.3	3933.8	2320.0	1972.0	1955.5	2043.4	2107.2	2155.6	2174.7	2184.9
35°	5499.2	5186.9	3620.3	2043.4	1825.4	1865.0	1949.0	1917.2	1898.1	1887.8	1898.1
37.5°	5843.4	5353.9	3253.1	1863.7	1706.8	1799.9	1834.3	1734.9	1659.7	1622.8	1631.7
40°	6257.7	5598.7	2900.0	1724.8	1631.7	1743.8	1684.0	1564.1	1468.5	1416.2	1420.0
42.5°	6717.8	5854.9	2603.0	1620.2	1589.6	1697.9	1573.1	1430.3	1276.0	1259.4	1276.0
45°	7201.0	6118.7	2400.3	1539.9	1569.2	1658.4	1509.3	1278.6	1168.9	1236.5	1272.2
47.5°	7684.1	6360.9	2278.0	1480.0	1559.0	1613.9	1453.2	1194.4	1116.6	1214.8	1260.8
50°	8222.0	6577.6	2223.1	1436.6	1547.5	1595.9	1369.1	1172.8	1061.9	1126.9	1175.3
52.5°	8756.2	6745.9	2182.3	1393.3	1530.9	1582.0	1328.3	1147.3	995.6	999.4	1026.1
55°	9289.1	6855.5	2137.7	1335.9	1494.0	1551.3	1324.5	1119.2	945.9	928.0	940.7
57.5°	9857.5	6918.0	2082.9	1272.2	1430.3	1473.6	1320.6	1097.6	930.6	901.3	905.1
60°	10436.3	7009.8	2011.6	1194.4	1344.8	1380.6	1311.7	1089.9	921.7	872.0	875.8
62.5°	10955.1	7041.6	1926.2	1120.5	1235.2	1288.7	1292.6	1083.5	897.4	812.0	812.0
65°	11295.5	6904.0	1776.9	1036.4	1116.6	1194.4	1255.6	1061.9	854.0	768.6	768.6
67.5°	11281.5	6511.4	1543.8	928.0	1001.9	1089.9	1202.1	1024.9	801.9	715.1	718.9
70°	10756.2	5736.3	1247.9	801.9	875.8	977.7	1133.2	970.1	739.3	656.5	664.1
72.5°	9225.3	4489.6	906.3	653.9	729.2	861.7	1044.0	903.7	675.6	604.2	600.4
75°	6590.4	2841.4	614.4	502.2	567.2	730.4	933.2	826.0	616.9	606.8	572.4
77.5°	3366.6	1357.6	406.6	367.2	395.1	576.2	783.9	738.1	625.9	501.0	446.2
80°	1095.0	501.0	256.2	249.9	262.6	383.7	606.8	605.5	474.2	340.4	300.8
82.5°	349.3	215.5	167.0	160.6	154.3	240.9	423.2	479.3	320.0	215.5	214.1
85°	139.0	128.7	98.2	90.5	65.0	113.5	221.8	318.7	238.4	155.5	159.4
87.5°	50.9	50.9	26.8	19.2	14.0	38.2	60.0	95.6	136.4	80.3	79.0
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)