

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: P969845

Luminaire Tested: **NAV-SB6A-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969845
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-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 28623.1 lumens
Efficiency: N/A
Efficacy: 167.5 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



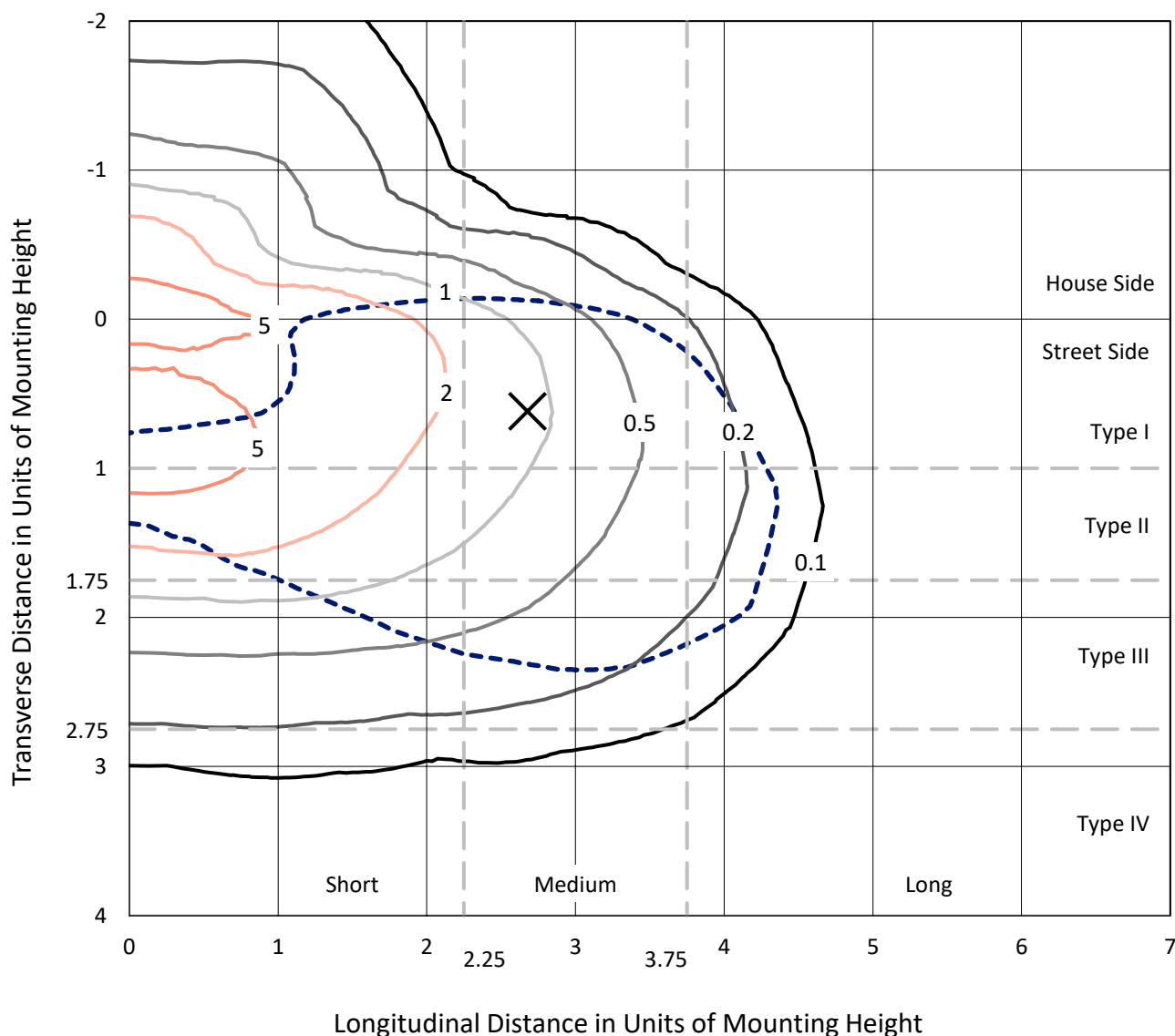
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

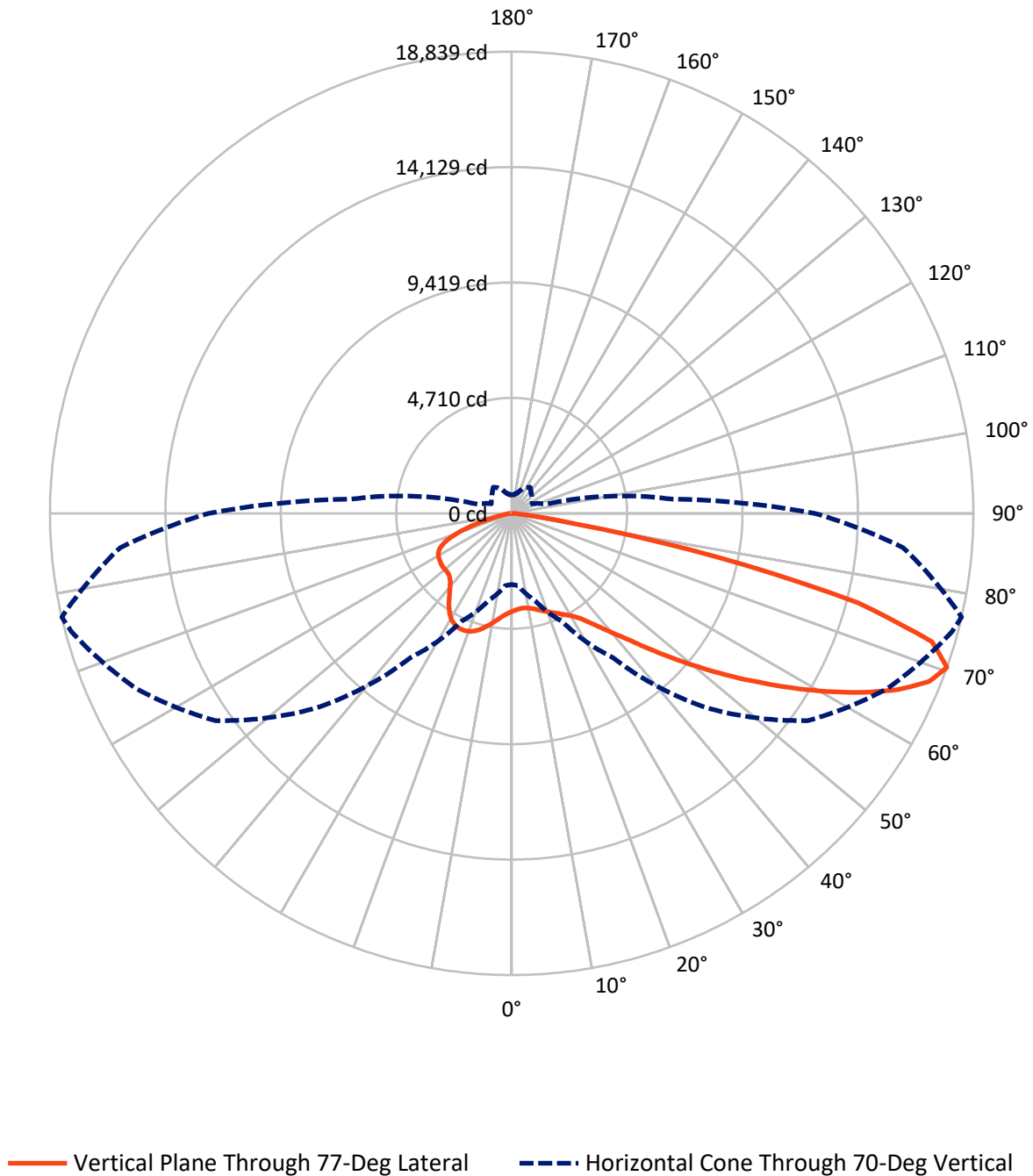


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

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	6268.0	0.0	6268.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22355.1	0.0	22355.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	28623.1	0.0	28623.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	1.3
10°-20°	1099.2	3.8
20°-30°	1879.7	6.6
30°-40°	3022.7	10.6
40°-50°	4719.3	16.5
50°-60°	6303.9	22.0
60°-70°	6718.9	23.5
70°-80°	4136.2	14.5
80°-90°	362.4	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°	28623.1	100.0
0°-180°	28623.1	100.0

Coefficient of Utilization



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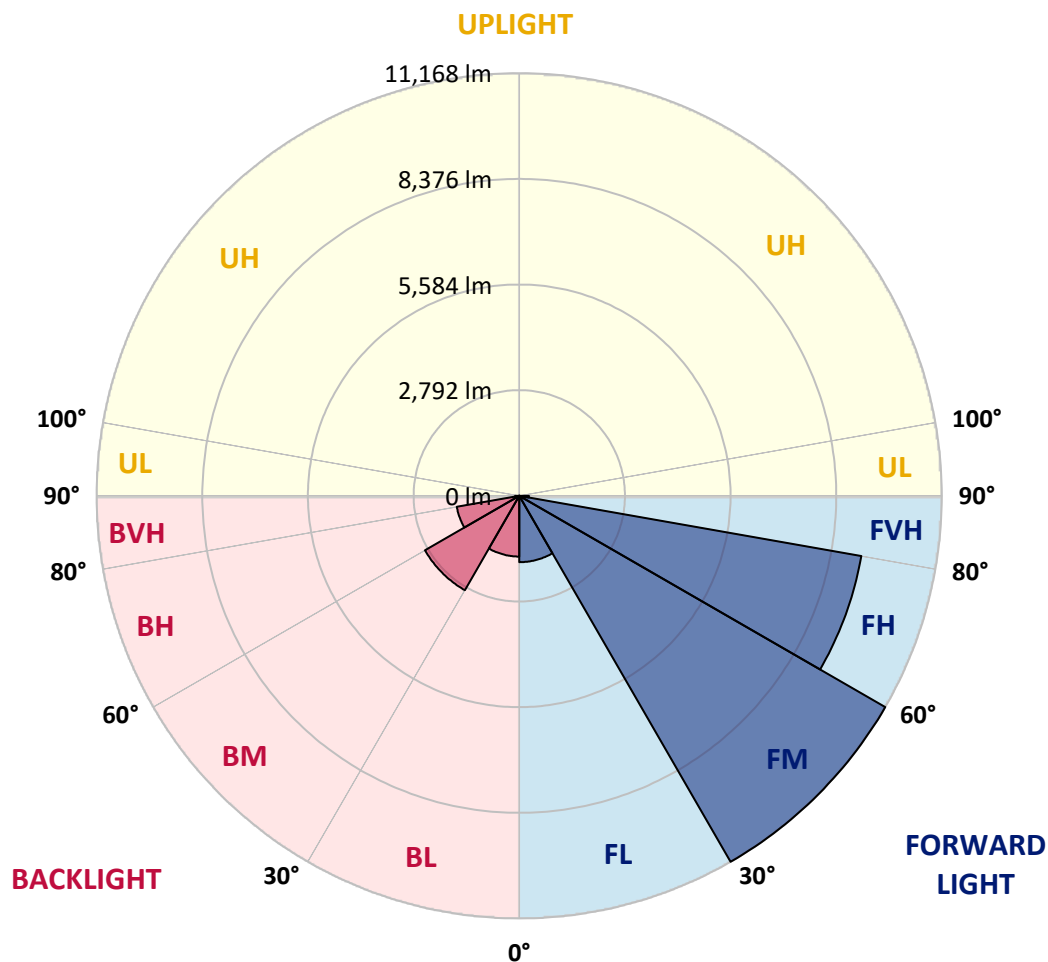
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1753.6	6.1			
FM	(30°-60°)	11168.1	39.0			
FH	(60°-80°)	9179.9	32.1			G4/12000
FVH	(80°-90°)	253.4	0.9			G3/500
BL	(0°-30°)	1606.1	5.6	B3/2500		
BM	(30°-60°)	2877.8	10.1	B3/5000		
BH	(60°-80°)	1675.2	5.9	B3/2500		G3/2500
BVH	(80°-90°)	109.0	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°	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2
2.5°	3681.0	3679.4	3698.5	3704.3	3739.6	3764.5	3811.5	3861.3	3925.7	3933.1	3972.7
5°	3468.4	3468.4	3490.3	3513.8	3559.3	3609.1	3681.0	3767.4	3878.8	3896.4	3994.6
7.5°	3288.1	3299.8	3318.8	3364.3	3417.0	3488.9	3598.9	3722.0	3868.6	3896.4	4054.8
10°	3143.0	3156.2	3179.5	3216.2	3295.4	3395.1	3538.7	3697.1	3893.5	3937.4	4142.7
12.5°	3097.5	3110.7	3123.9	3151.8	3225.1	3342.3	3513.8	3708.8	3953.6	3997.6	4262.9
15°	3203.0	3219.2	3208.9	3201.6	3239.7	3346.7	3525.6	3751.3	4028.4	4091.4	4411.0
17.5°	3446.4	3452.3	3428.8	3360.0	3354.0	3411.2	3581.2	3809.9	4122.1	4191.1	4560.5
20°	3839.2	3829.0	3780.6	3644.3	3566.6	3554.9	3676.6	3897.9	4218.9	4292.2	4721.8
22.5°	4372.9	4361.2	4264.4	4048.9	3875.9	3761.5	3814.3	4012.3	4327.4	4409.5	4878.6
25°	5038.4	5022.3	4880.0	4586.9	4318.6	4035.7	4002.0	4163.2	4460.8	4537.1	5042.8
27.5°	5815.3	5802.1	5648.3	5261.2	4874.2	4411.0	4235.1	4340.6	4600.1	4686.6	5227.5
30°	6650.9	6689.0	6416.4	6000.0	5510.4	4900.6	4548.7	4559.0	4780.4	4858.1	5451.8
32.5°	7633.1	7699.1	7370.7	6842.9	6174.5	5432.7	4944.6	4863.9	5042.8	5107.3	5734.7
35°	8606.4	8681.2	8408.6	7825.2	7055.5	6060.1	5358.0	5214.3	5391.7	5462.0	6110.0
37.5°	9447.9	9547.6	9406.8	8899.7	7998.1	6816.6	5897.4	5626.2	5821.2	5909.1	6614.2
40°	10111.9	10264.5	10254.2	9937.5	9109.3	7734.2	6582.0	6134.9	6354.8	6450.1	7225.5
42.5°	10651.4	10783.4	10897.7	10881.6	10268.9	8776.5	7386.8	6796.1	6963.1	7073.1	7913.1
45°	11023.8	11164.5	11410.8	11676.1	11384.4	9892.1	8308.9	7580.3	7732.8	7898.4	8732.5
47.5°	11356.6	11516.3	11835.9	12256.6	12331.4	11012.1	9318.9	8493.6	8632.9	8804.3	9554.9
50°	11385.9	11523.7	12019.2	12615.8	13004.3	12088.0	10403.6	9518.3	9648.7	9832.0	10435.9
52.5°	10677.8	10894.7	11759.7	12605.6	13313.5	12988.1	11481.1	10584.0	10730.6	10950.5	11347.8
55°	8288.4	8606.4	10998.9	12212.7	13203.6	13570.1	12505.8	11717.2	11904.8	12135.0	12265.5
57.5°	7139.0	7278.3	8731.1	11497.2	12702.3	13721.1	13370.7	12862.0	13164.1	13416.1	13235.8
60°	6416.4	6532.2	7391.2	10384.6	12042.6	13482.1	14039.2	13929.2	14451.1	14751.6	14228.3
62.5°	5642.3	5752.3	6533.7	8671.0	11198.2	13084.8	14461.4	14914.4	15770.4	16098.9	15163.5
65°	4874.2	4968.1	5717.1	7285.7	10125.2	12687.7	14679.8	15766.0	16991.5	17331.6	15940.5
67.5°	4018.1	4095.8	4803.9	6146.6	8820.5	12143.8	14788.3	16436.0	18054.4	18346.1	16324.6
70°	2899.6	2959.7	3691.2	4861.1	7183.0	11208.5	14744.3	16911.0	18605.6	18838.7	16034.3
72.5°	1370.6	1424.9	2283.9	3156.2	5073.5	9387.8	13854.5	16534.2	18045.5	17929.8	14257.6
75°	731.5	778.4	1312.0	1731.2	2679.8	6435.5	11337.5	14243.0	15153.3	14590.4	10537.1
77.5°	495.5	532.2	812.1	1039.4	1224.1	3055.0	7287.1	9861.3	9487.5	8558.1	5277.3
80°	392.9	431.0	665.5	703.7	592.2	1103.8	3011.0	4564.9	3279.3	2622.6	1501.1
82.5°	302.0	344.5	560.0	510.1	322.5	452.9	876.6	1443.9	840.0	639.2	363.6
85°	184.7	230.1	439.8	325.4	181.7	206.7	297.6	401.7	256.6	214.0	130.5
87.5°	93.8	131.9	222.8	118.7	82.1	48.4	79.1	79.1	67.4	58.6	33.7
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°	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2	3993.2
2.5°	4007.9	4037.2	4087.0	4133.9	4170.5	4205.8	4240.9	4260.0	4265.8	4289.3	4302.5
5°	4054.8	4109.0	4205.8	4296.6	4353.8	4388.9	4414.0	4428.6	4431.5	4438.9	4450.5
7.5°	4141.2	4227.7	4362.6	4453.5	4496.0	4493.1	4482.8	4446.1	4431.5	4418.3	4421.2
10°	4262.9	4377.3	4542.9	4605.9	4579.6	4509.2	4418.3	4311.3	4261.4	4213.1	4198.4
12.5°	4414.0	4559.0	4721.8	4718.8	4588.3	4408.0	4197.0	4032.8	3928.7	3853.9	3836.4
15°	4597.1	4764.3	4888.8	4789.2	4503.3	4179.3	3870.1	3656.1	3562.2	3480.1	3471.4
17.5°	4786.2	4965.1	5022.3	4767.2	4289.3	3840.8	3490.3	3321.8	3229.5	3185.5	3198.6
20°	4970.9	5148.4	5101.4	4641.1	3963.9	3456.6	3144.4	3052.0	3033.0	3043.2	3038.8
22.5°	5165.9	5324.3	5117.5	4397.8	3549.0	3063.8	2892.2	2895.2	2937.8	2968.5	2975.9
25°	5365.3	5472.3	5075.1	4046.0	3103.4	2775.0	2732.4	2779.4	2862.9	2923.1	2939.2
27.5°	5557.3	5604.3	4982.7	3610.6	2720.8	2568.3	2575.6	2672.4	2798.5	2882.0	2902.5
30°	5774.3	5721.5	4805.3	3120.9	2455.4	2390.9	2452.5	2565.4	2691.4	2766.2	2783.8
32.5°	6019.1	5822.6	4523.8	2668.0	2267.8	2248.7	2349.9	2423.2	2478.9	2500.9	2512.6
35°	6324.0	5964.9	4163.2	2349.9	2099.2	2144.6	2241.4	2204.8	2182.7	2171.1	2182.7
37.5°	6719.8	6156.9	3741.0	2143.2	1962.9	2069.9	2109.4	1995.2	1908.7	1866.1	1876.4
40°	7196.2	6438.3	3334.9	1983.4	1876.4	2005.4	1936.5	1798.7	1688.8	1628.6	1633.0
42.5°	7725.4	6733.0	2993.4	1863.2	1828.0	1952.6	1808.9	1644.8	1467.4	1448.3	1467.4
45°	8281.0	7036.4	2760.3	1770.8	1804.5	1907.2	1735.6	1470.4	1344.3	1422.0	1463.0
47.5°	8836.6	7315.0	2619.6	1701.9	1792.8	1855.9	1671.2	1373.6	1284.1	1397.1	1449.8
50°	9455.2	7564.2	2556.6	1652.1	1779.6	1835.4	1574.4	1348.7	1221.1	1295.9	1351.6
52.5°	10069.5	7757.7	2509.7	1602.3	1760.5	1819.2	1527.5	1319.4	1144.9	1149.3	1180.1
55°	10682.2	7883.8	2458.4	1536.3	1718.1	1784.0	1523.1	1287.1	1087.7	1067.2	1081.9
57.5°	11336.0	7955.6	2395.3	1463.0	1644.8	1694.6	1518.7	1262.2	1070.1	1036.4	1040.8
60°	12001.5	8061.1	2313.2	1373.6	1546.5	1587.6	1508.4	1253.4	1059.8	1002.7	1007.1
62.5°	12598.2	8097.8	2215.0	1288.5	1420.4	1482.0	1486.5	1246.0	1032.0	933.8	933.8
65°	12989.6	7939.4	2043.5	1191.8	1284.1	1373.6	1443.9	1221.1	982.2	884.0	884.0
67.5°	12973.4	7487.9	1775.2	1067.2	1152.2	1253.4	1382.4	1178.6	922.1	822.4	826.8
70°	12369.5	6596.7	1435.1	922.1	1007.1	1124.3	1303.2	1115.6	850.2	754.9	763.7
72.5°	10609.0	5163.0	1042.3	752.0	838.6	991.0	1200.6	1039.4	776.9	694.8	690.4
75°	7578.8	3267.6	706.5	577.6	652.3	840.0	1073.1	950.0	709.5	697.8	658.2
77.5°	3871.5	1561.2	467.6	422.2	454.5	662.6	901.6	848.8	719.8	576.2	513.1
80°	1259.2	576.2	294.7	287.3	302.0	441.3	697.8	696.3	545.3	391.4	345.9
82.5°	401.7	247.7	192.1	184.7	177.4	277.1	486.7	551.1	368.0	247.7	246.3
85°	159.8	148.0	112.9	104.0	74.7	130.5	255.1	366.4	274.1	178.9	183.3
87.5°	58.6	58.6	30.7	22.0	16.1	44.0	68.9	110.0	156.8	92.4	90.9
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)