

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: P969938

Luminaire Tested: **NAV-SB6A-760-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969938
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-760-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30282.6 lumens
Efficiency: N/A
Efficacy: 177.2 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



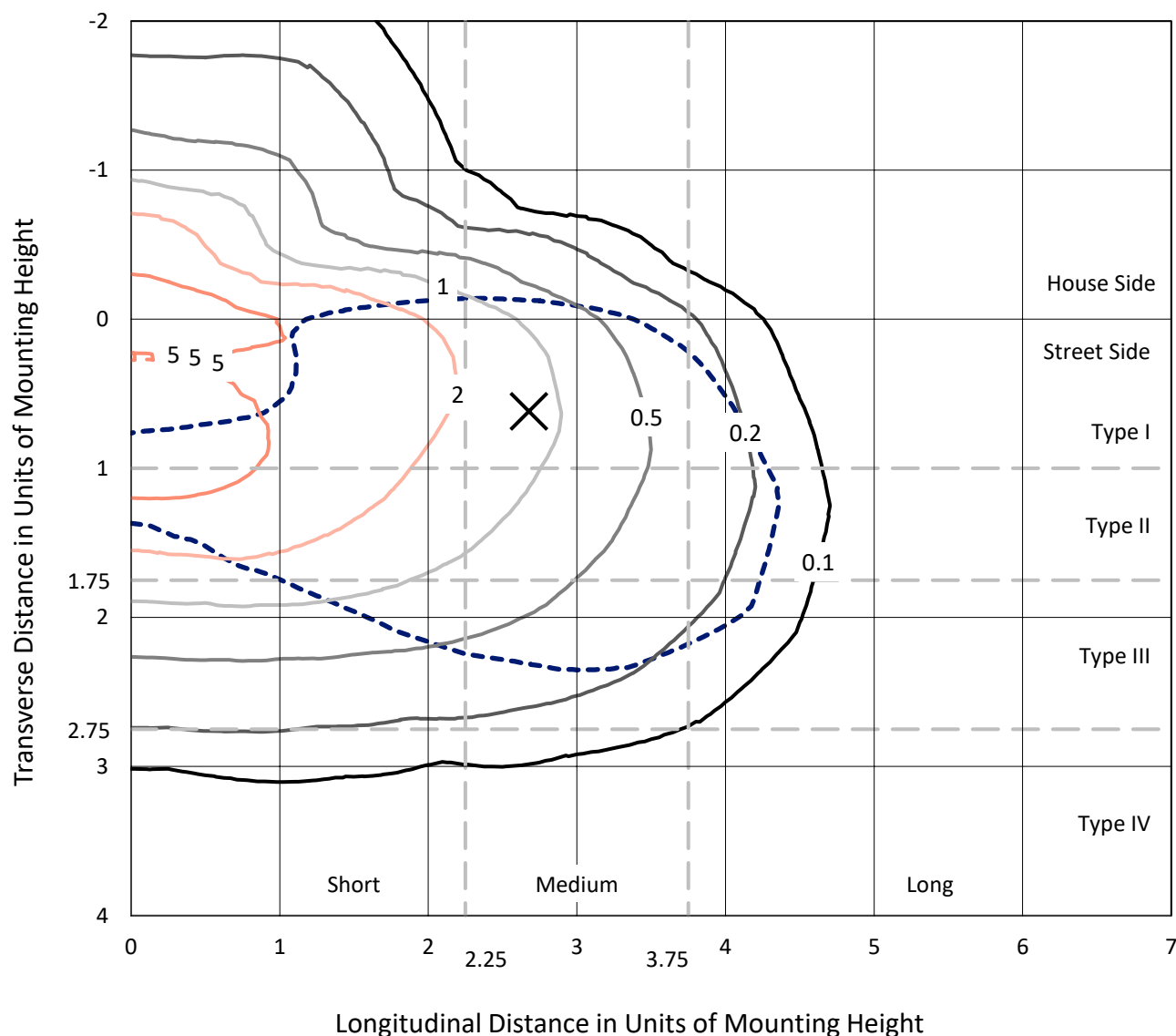
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

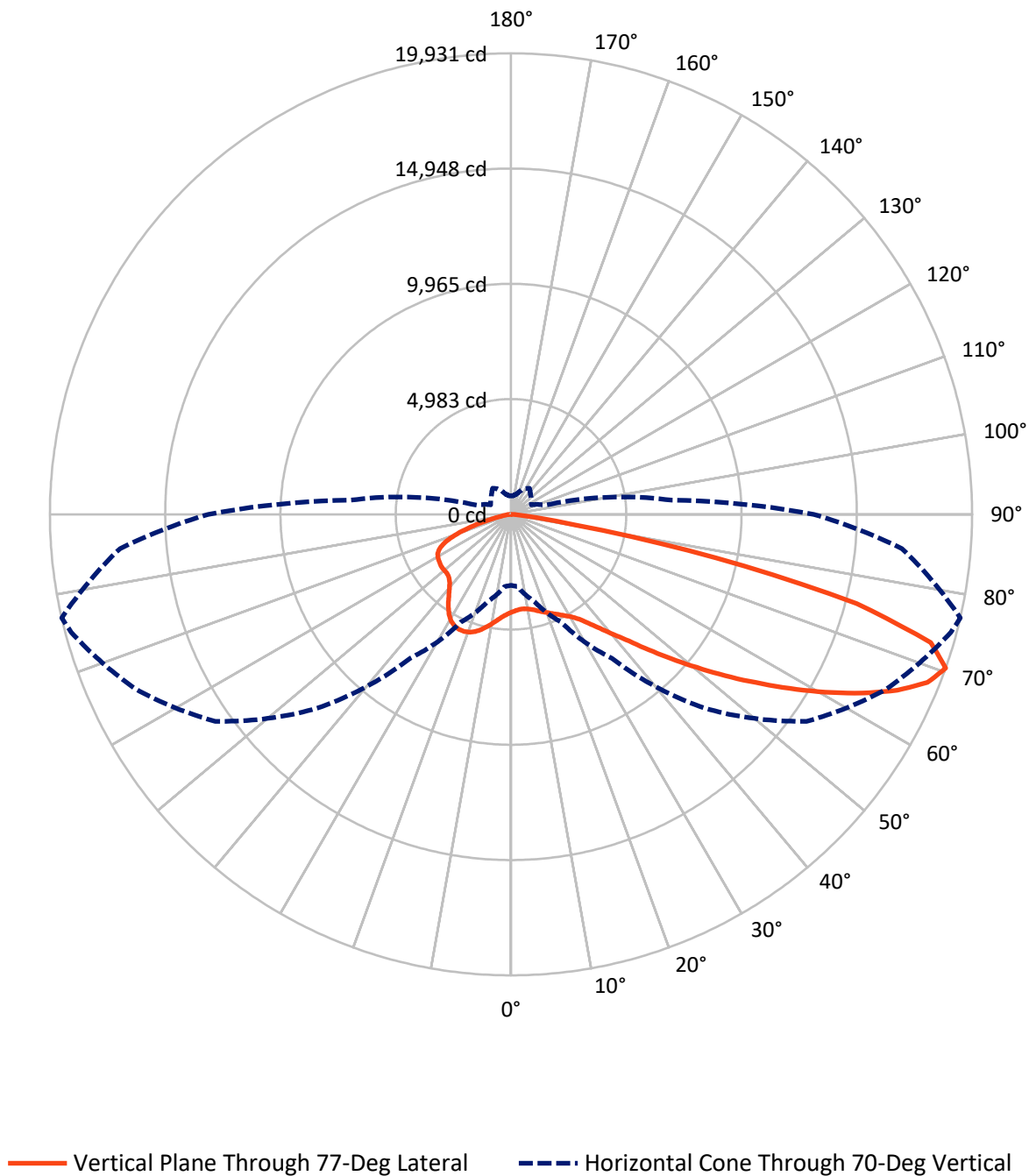


Based on 25 foot mounting height. Maximum calculated value = 8 fc

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	6631.4	0.0	6631.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23651.2	0.0	23651.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	30282.6	0.0	30282.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	1.3
10°-20°	1162.9	3.8
20°-30°	1988.7	6.6
30°-40°	3198.0	10.6
40°-50°	4992.9	16.5
50°-60°	6669.3	22.0
60°-70°	7108.5	23.5
70°-80°	4375.9	14.5
80°-90°	383.4	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°	30282.6	100.0
0°-180°	30282.6	100.0

Coefficient of Utilization



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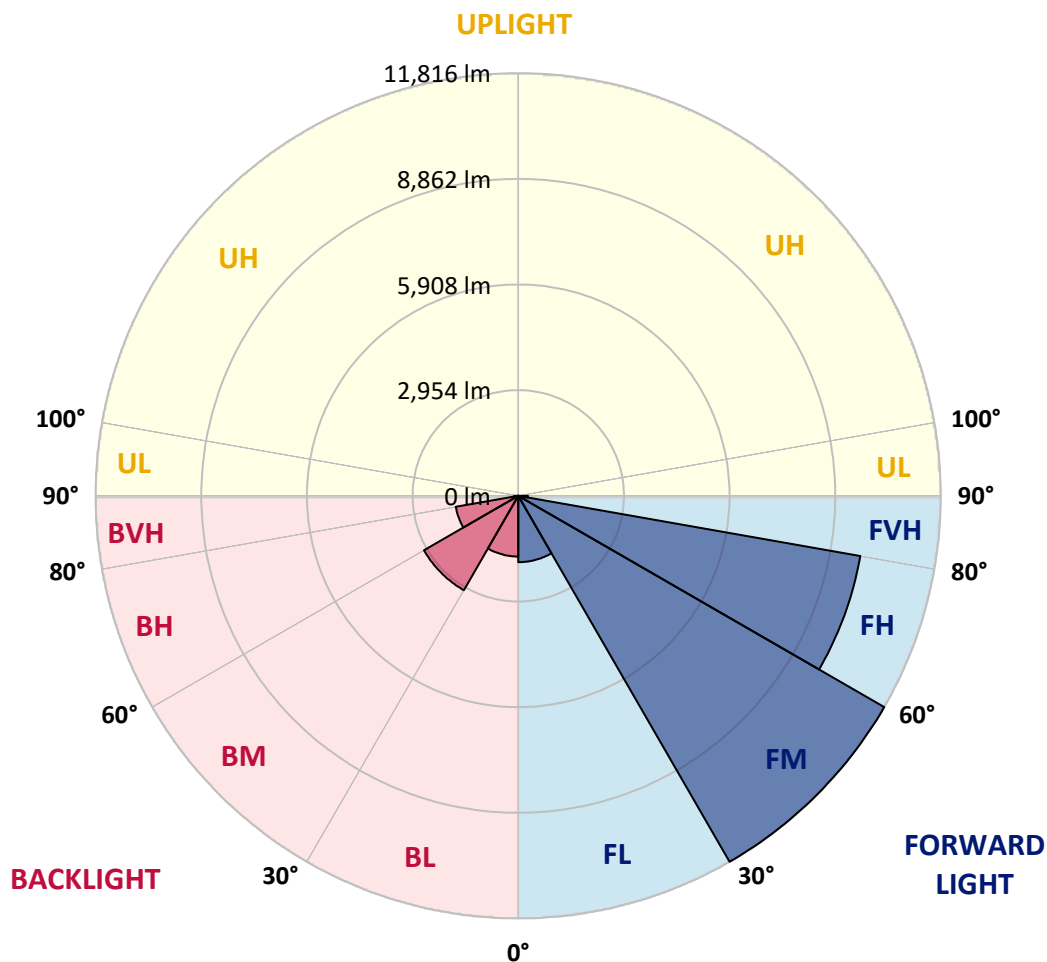
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.3	6.1			
FM	(30°-60°)	11815.6	39.0			
FH	(60°-80°)	9712.1	32.1			G4/12000
FVH	(80°-90°)	268.1	0.9			G3/500
BL	(0°-30°)	1699.2	5.6	B3/2500		
BM	(30°-60°)	3044.6	10.1	B3/5000		
BH	(60°-80°)	1772.3	5.9	B3/2500		G3/2500
BVH	(80°-90°)	115.3	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°	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7
2.5°	3894.4	3892.8	3912.9	3919.2	3956.4	3982.7	4032.3	4085.1	4153.4	4161.1	4203.0
5°	3669.5	3669.5	3692.8	3717.6	3765.6	3818.3	3894.4	3985.8	4103.7	4122.3	4226.3
7.5°	3478.7	3491.2	3511.2	3559.3	3615.2	3691.2	3807.5	3937.7	4092.8	4122.3	4289.8
10°	3325.2	3339.1	3363.9	3402.7	3486.4	3591.9	3743.9	3911.4	4119.3	4165.8	4382.9
12.5°	3277.1	3291.1	3305.0	3334.4	3412.0	3536.0	3717.6	3923.8	4182.8	4229.4	4510.1
15°	3388.8	3405.8	3395.0	3387.2	3427.5	3540.8	3730.0	3968.8	4262.0	4328.6	4666.7
17.5°	3646.2	3652.4	3627.6	3554.7	3548.6	3609.0	3788.9	4030.8	4361.2	4434.0	4824.9
20°	4061.9	4051.0	3999.9	3855.5	3773.3	3760.9	3889.7	4123.9	4463.6	4541.1	4995.5
22.5°	4626.3	4613.9	4511.6	4283.7	4100.6	3979.7	4035.5	4244.8	4578.3	4665.2	5161.5
25°	5330.5	5313.4	5163.0	4852.9	4569.0	4269.6	4234.0	4404.6	4719.4	4800.1	5335.1
27.5°	6152.5	6138.5	5975.6	5566.3	5156.8	4666.7	4480.6	4592.3	4866.8	4958.2	5530.6
30°	7036.5	7076.8	6788.4	6347.9	5829.9	5184.8	4812.5	4823.3	5057.6	5139.8	5767.9
32.5°	8075.7	8145.4	7798.0	7239.7	6532.4	5747.7	5231.3	5145.9	5335.1	5403.4	6067.2
35°	9105.5	9184.5	8896.1	8278.8	7464.6	6411.5	5668.6	5516.7	5704.2	5778.7	6464.3
37.5°	9995.7	10101.2	9952.2	9415.6	8461.8	7211.8	6239.4	5952.4	6158.7	6251.8	6997.8
40°	10698.2	10859.6	10848.7	10513.6	9637.4	8182.7	6963.6	6490.6	6723.2	6824.0	7644.4
42.5°	11269.0	11408.6	11529.5	11512.5	10864.2	9285.4	7815.1	7190.1	7366.9	7483.2	8371.9
45°	11662.9	11811.8	12072.3	12353.1	12044.5	10465.6	8790.6	8019.8	8181.1	8356.3	9238.8
47.5°	12014.9	12184.0	12522.1	12967.2	13046.3	11650.5	9859.2	8986.0	9133.4	9314.8	10108.9
50°	12046.0	12191.8	12715.9	13347.2	13758.2	12788.8	11006.9	10070.1	10208.2	10402.0	11041.0
52.5°	11296.8	11526.4	12441.4	13336.4	14085.4	13741.2	12146.8	11197.6	11352.7	11585.4	12005.6
55°	8768.9	9105.5	11636.5	12920.7	13969.1	14356.9	13230.9	12396.5	12595.0	12838.5	12976.5
57.5°	7552.9	7700.3	9237.3	12163.9	13438.7	14516.6	14145.9	13607.8	13927.2	14194.0	14003.2
60°	6788.4	6910.9	7819.7	10986.7	12740.7	14263.8	14853.2	14736.8	15288.9	15606.9	15053.3
62.5°	5969.5	6085.8	6912.4	9173.6	11847.5	13843.4	15299.8	15779.1	16684.7	17032.2	16042.7
65°	5156.8	5256.1	6048.6	7708.1	10712.2	13423.2	15530.9	16680.1	17976.7	18336.5	16864.6
67.5°	4251.1	4333.3	5082.4	6503.0	9331.9	12847.8	15645.7	17388.9	19101.1	19409.7	17271.0
70°	3067.7	3131.3	3905.2	5142.8	7599.5	11858.3	15599.2	17891.4	19684.2	19930.8	16964.0
72.5°	1450.1	1507.5	2416.3	3339.1	5367.7	9932.0	14657.7	17492.8	19091.8	18969.3	15084.2
75°	773.9	823.6	1388.1	1831.7	2835.0	6808.6	11994.8	15068.7	16031.8	15436.3	11148.0
77.5°	524.2	563.0	859.3	1099.6	1295.0	3232.1	7709.6	10433.1	10037.5	9054.2	5583.3
80°	415.6	455.9	704.1	744.5	626.6	1167.9	3185.6	4829.6	3469.4	2774.6	1588.1
82.5°	319.5	364.5	592.4	539.8	341.2	479.2	927.4	1527.7	888.7	676.2	384.6
85°	195.4	243.5	465.2	344.3	192.3	218.6	314.9	425.0	271.4	226.4	138.1
87.5°	99.2	139.6	235.7	125.7	86.8	51.1	83.7	83.7	71.3	62.0	35.7
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°	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7	4224.7
2.5°	4240.2	4271.3	4324.0	4373.6	4412.3	4449.6	4486.8	4506.9	4513.2	4538.0	4551.9
5°	4289.8	4347.2	4449.6	4545.8	4606.2	4643.5	4669.8	4685.3	4688.5	4696.1	4708.5
7.5°	4381.4	4472.9	4615.6	4711.7	4756.6	4753.5	4742.7	4703.9	4688.5	4674.5	4677.6
10°	4510.1	4631.1	4806.3	4873.0	4845.1	4770.7	4674.5	4561.2	4508.6	4457.3	4441.8
12.5°	4669.8	4823.3	4995.5	4992.4	4854.4	4663.6	4440.3	4266.6	4156.5	4077.3	4058.8
15°	4863.7	5040.4	5172.4	5066.9	4764.4	4421.6	4094.5	3867.9	3768.7	3681.9	3672.6
17.5°	5063.7	5252.9	5313.4	5043.6	4538.0	4063.4	3692.8	3514.4	3416.6	3370.1	3384.1
20°	5259.2	5446.8	5397.2	4910.2	4193.7	3657.1	3326.7	3229.1	3208.9	3219.7	3215.0
22.5°	5465.4	5632.9	5414.3	4652.8	3754.8	3241.5	3059.9	3063.1	3108.0	3140.6	3148.4
25°	5676.3	5789.6	5369.3	4280.5	3283.3	2935.9	2890.9	2940.5	3029.0	3092.5	3109.5
27.5°	5879.5	5929.1	5271.6	3819.9	2878.5	2717.2	2725.0	2827.4	2960.7	3049.1	3070.8
30°	6109.1	6053.2	5083.9	3301.9	2597.8	2529.6	2594.7	2714.1	2847.4	2926.6	2945.2
32.5°	6368.0	6160.2	4786.1	2822.6	2399.3	2379.1	2486.1	2563.6	2622.6	2645.8	2658.2
35°	6690.7	6310.7	4404.6	2486.1	2220.9	2269.0	2371.3	2332.6	2309.3	2296.9	2309.3
37.5°	7109.4	6513.9	3957.9	2267.4	2076.6	2189.9	2231.7	2110.8	2019.2	1974.4	1985.2
40°	7613.5	6811.6	3528.4	2098.4	1985.2	2121.6	2048.8	1903.0	1786.7	1723.0	1727.7
42.5°	8173.4	7123.3	3166.9	1971.2	1934.0	2065.8	1913.9	1740.1	1552.5	1532.3	1552.5
45°	8761.1	7444.4	2920.3	1873.5	1909.2	2017.7	1836.3	1555.5	1422.2	1504.4	1547.9
47.5°	9348.9	7739.1	2771.5	1800.6	1896.8	1963.5	1768.0	1453.2	1358.6	1478.0	1533.8
50°	10003.4	8002.7	2704.8	1747.9	1882.8	1941.8	1665.7	1426.8	1291.9	1371.0	1430.0
52.5°	10653.2	8207.5	2655.2	1695.1	1862.6	1924.6	1616.0	1395.8	1211.2	1216.0	1248.4
55°	11301.5	8340.8	2600.9	1625.3	1817.6	1887.4	1611.4	1361.7	1150.8	1129.0	1144.6
57.5°	11993.2	8416.8	2534.2	1547.9	1740.1	1792.8	1606.8	1335.4	1132.2	1096.5	1101.2
60°	12697.4	8528.5	2447.4	1453.2	1636.2	1679.7	1595.9	1326.0	1121.4	1060.9	1065.5
62.5°	13328.6	8567.3	2343.5	1363.2	1502.9	1567.9	1572.7	1318.3	1091.8	987.9	987.9
65°	13742.7	8399.8	2161.9	1260.9	1358.6	1453.2	1527.7	1291.9	1039.1	935.2	935.2
67.5°	13725.6	7922.1	1878.2	1129.0	1219.0	1326.0	1462.5	1246.9	975.5	870.0	874.7
70°	13086.7	6979.1	1518.3	975.5	1065.5	1189.5	1378.7	1180.3	899.5	798.7	808.0
72.5°	11224.0	5462.3	1102.7	795.6	887.1	1048.4	1270.2	1099.6	821.9	735.1	730.5
75°	8018.3	3457.0	747.5	611.1	690.1	888.7	1135.3	1005.0	750.6	738.2	696.4
77.5°	4096.0	1651.7	494.8	446.7	480.8	701.0	953.9	898.0	761.5	609.5	542.8
80°	1332.2	609.5	311.7	304.0	319.5	466.8	738.2	736.7	577.0	414.1	366.0
82.5°	425.0	262.1	203.2	195.4	187.7	293.2	514.9	583.1	389.3	262.1	260.6
85°	169.0	156.6	119.4	110.1	79.1	138.1	269.9	387.8	290.0	189.2	193.8
87.5°	62.0	62.0	32.6	23.3	17.0	46.5	72.9	116.3	165.9	97.7	96.1
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)