

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: McGRAW-EDISON

Report Number: P953435

Luminaire Tested: **GALN-SB7A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29986 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 199.1
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



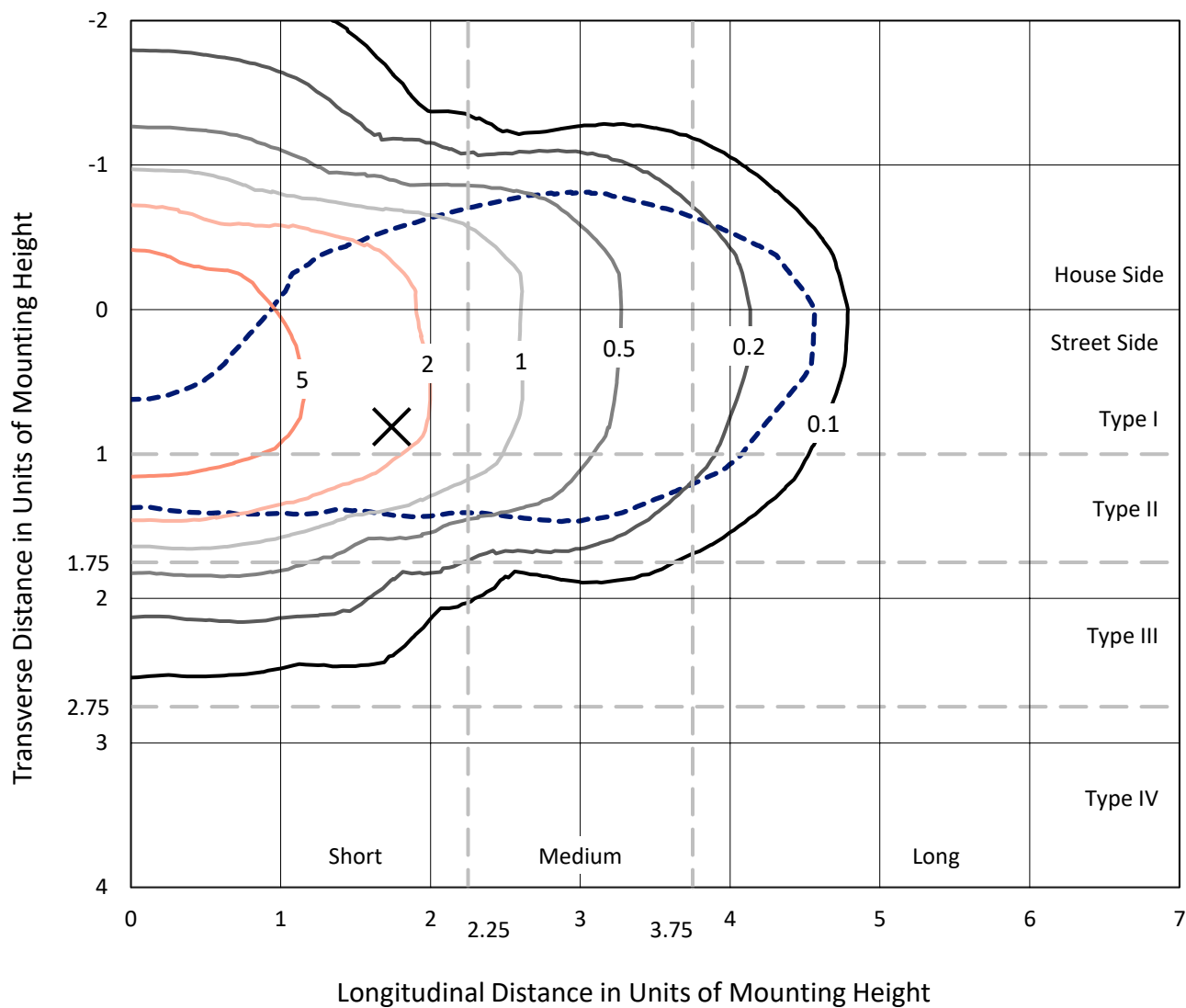
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

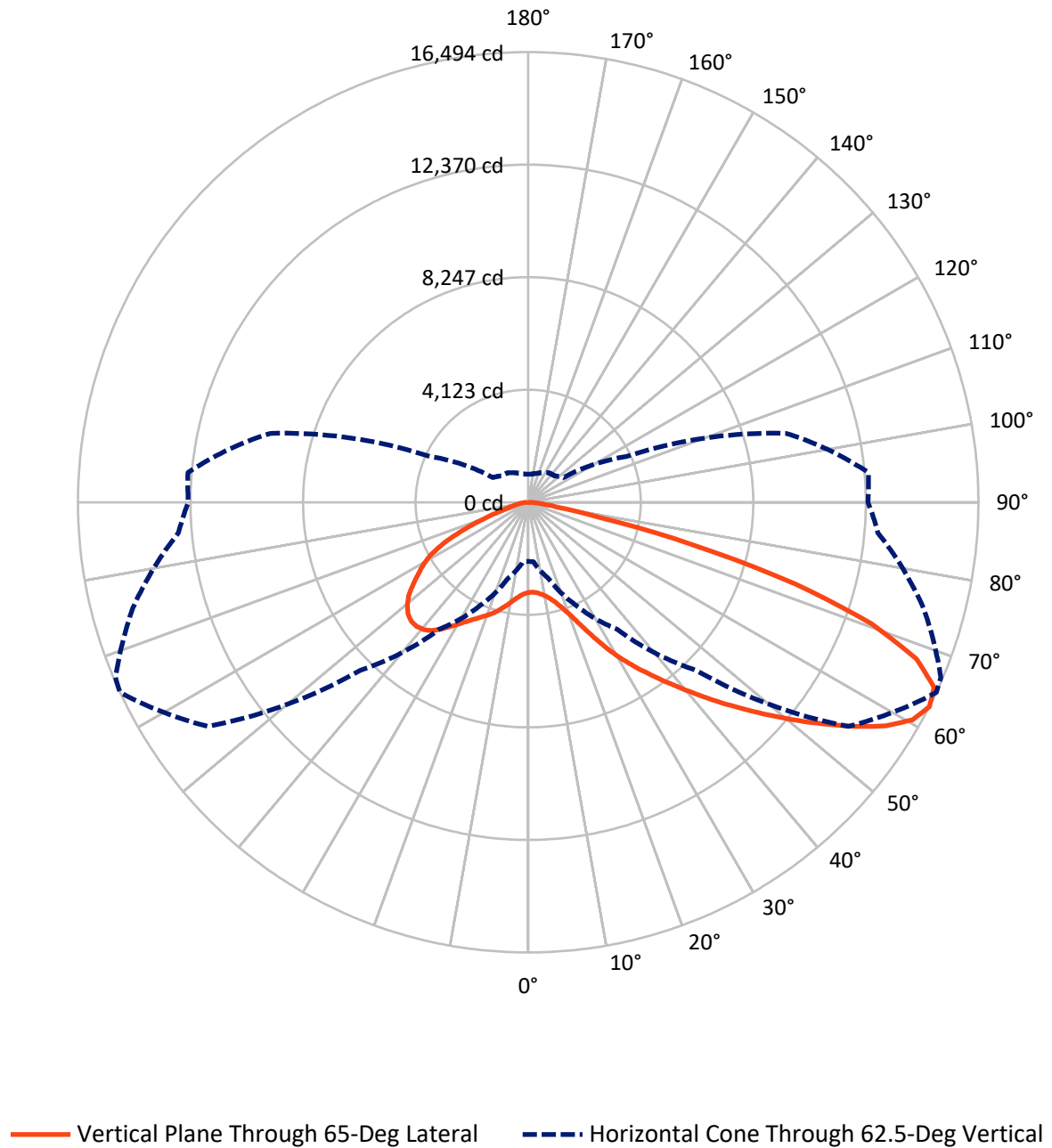


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9462.3	0.0	9462.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20523.7	0.0	20523.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	29986.0	0.0	29986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	1.1
10°-20°	1117.2	3.7
20°-30°	2265.1	7.6
30°-40°	3919.8	13.1
40°-50°	5931.9	19.8
50°-60°	6954.7	23.2
60°-70°	5830.7	19.4
70°-80°	3219.0	10.7
80°-90°	418.1	1.4
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°	29986.0	100.0
0°-180°	29986.0	100.0

Coefficient of Utilization



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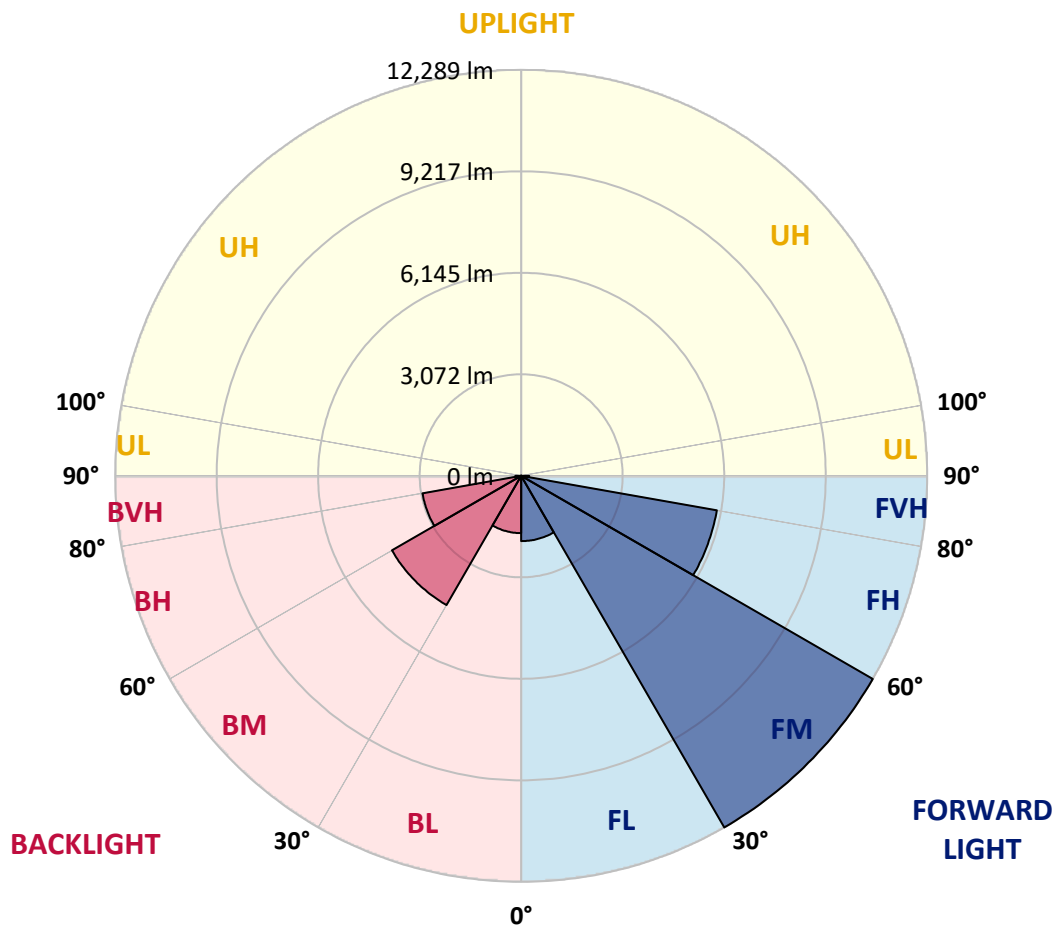
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1976.5	6.6			
FM	(30°-60°)	12289.2	41.0			
FH	(60°-80°)	6014.3	20.1			G3/7500
FVH	(80°-90°)	243.7	0.8			G3/500
BL	(0°-30°)	1735.3	5.8	B3/2500		
BM	(30°-60°)	4517.2	15.1	B3/5000		
BH	(60°-80°)	3035.4	10.1	B4/5000		G4/5000
BVH	(80°-90°)	174.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3282.5	3273.2	3281.0	3281.0	3284.1	3282.5	3293.4	3296.5	3301.2	3310.6	3310.6
5°	3249.9	3248.3	3262.3	3274.8	3287.2	3298.1	3312.1	3332.3	3335.4	3346.3	3360.3
7.5°	3239.0	3229.7	3251.4	3267.0	3296.5	3323.0	3360.3	3394.6	3408.6	3413.2	3439.7
10°	3323.0	3307.4	3327.7	3337.0	3361.9	3388.3	3431.9	3486.3	3501.9	3520.6	3550.1
12.5°	3466.1	3449.0	3478.6	3492.6	3515.9	3539.2	3568.8	3621.7	3629.5	3663.7	3691.7
15°	3662.1	3641.9	3660.6	3677.7	3716.6	3738.4	3767.9	3819.3	3819.3	3845.7	3865.9
17.5°	3928.2	3901.7	3915.7	3921.9	3946.8	3979.5	4029.3	4074.4	4097.7	4088.4	4060.4
20°	4324.9	4292.2	4292.2	4261.1	4251.8	4278.2	4343.5	4405.8	4430.7	4382.4	4314.0
22.5°	4920.7	4874.0	4847.6	4741.8	4699.8	4702.9	4768.2	4844.5	4864.7	4779.1	4625.1
25°	5678.3	5605.2	5569.4	5413.9	5319.0	5236.5	5287.9	5385.9	5413.9	5308.1	5059.2
27.5°	6436.0	6440.6	6406.4	6219.7	6062.6	5911.7	5885.2	5987.9	6017.5	5897.7	5589.7
30°	7498.5	7388.1	7322.7	7098.7	6874.7	6663.1	6554.2	6596.2	6604.0	6460.9	6103.0
32.5°	8414.8	8386.8	8246.8	8050.8	7763.0	7431.6	7249.6	7182.7	7170.3	6966.5	6541.8
35°	9458.7	9443.2	9295.4	9062.0	8750.9	8290.4	7962.1	7770.8	7755.2	7469.0	6975.8
37.5°	10519.7	10519.7	10375.0	10119.9	9797.9	9222.2	8722.9	8419.5	8369.7	7996.3	7417.6
40°	11366.0	11314.7	11341.1	11233.8	10865.1	10253.7	9567.6	9127.3	9060.5	8612.4	7887.4
42.5°	11846.7	11829.6	11988.3	12108.1	11957.2	11468.7	10497.9	9894.3	9801.0	9290.7	8428.8
45°	11954.1	11935.4	12218.5	12657.3	12868.8	12668.1	11509.1	10701.7	10588.2	10000.1	9009.1
47.5°	11706.7	11669.4	12084.8	12777.0	13455.3	13808.5	12604.4	11577.6	11412.7	10690.8	9605.0
50°	10963.1	10927.3	11555.8	12475.2	13652.9	14583.2	13792.9	12506.3	12254.3	11431.4	10207.0
52.5°	9346.7	9363.8	10348.6	11611.8	13393.1	15065.5	14816.6	13484.9	13181.5	12189.0	10771.7
55°	7280.7	7318.1	8528.4	9919.2	12353.9	14992.4	15515.1	14493.0	14191.2	12901.5	11355.1
57.5°	5213.2	5378.1	6512.2	7889.0	10357.9	13833.4	15667.6	15451.3	15158.8	13679.4	11926.1
60°	3379.0	3408.6	4575.3	5963.0	7887.4	11773.6	15358.0	16177.8	15949.1	14472.8	12403.7
62.5°	2165.5	2185.8	2896.7	4170.9	5676.8	8710.4	14315.6	16493.6	16423.6	14997.0	12862.6
65°	1591.5	1575.9	1946.2	2756.7	3823.9	5371.9	12291.7	16341.2	16479.6	15325.3	13242.2
67.5°	1328.6	1306.8	1488.8	1908.9	2817.4	3050.7	9094.7	15350.2	15857.3	15288.0	13520.7
70°	1210.3	1191.7	1302.1	1417.3	2198.2	2042.6	4584.7	13344.9	14125.8	14863.2	13475.6
72.5°	1025.2	992.5	1143.4	1258.6	1709.7	1566.6	1894.9	10250.6	11202.7	13502.0	12840.8
75°	795.0	773.2	902.3	1107.7	1285.0	1222.8	1197.9	6224.4	7263.6	10441.9	11233.8
77.5°	630.1	600.5	718.7	863.4	1155.9	922.5	872.8	2680.5	3710.4	6666.2	8405.5
80°	474.5	448.0	546.1	683.0	888.3	695.4	564.7	1093.7	1398.6	3377.4	4226.9
82.5°	337.6	314.3	381.1	500.9	597.4	623.8	346.9	612.9	689.2	1302.1	944.3
85°	216.2	202.2	255.1	314.3	379.6	401.4	211.6	320.5	351.6	536.7	393.6
87.5°	118.2	96.5	136.9	146.2	175.8	160.2	101.1	116.7	126.0	194.5	166.5
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°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3316.8	3321.4	3337.0	3341.7	3352.6	3366.6	3375.9	3385.2	3385.2	3394.6	3394.6
5°	3361.9	3372.8	3405.4	3422.6	3450.6	3478.6	3495.7	3515.9	3528.3	3534.6	3537.7
7.5°	3449.0	3466.1	3512.8	3542.4	3590.6	3629.5	3655.9	3683.9	3690.1	3707.3	3701.0
10°	3567.2	3587.5	3640.4	3696.4	3753.9	3802.2	3827.0	3847.3	3855.0	3858.2	3850.4
12.5°	3702.6	3732.1	3800.6	3869.0	3929.7	3971.7	3977.9	3973.3	3951.5	3932.8	3932.8
15°	3869.0	3895.5	3971.7	4046.4	4105.5	4113.3	4074.4	4049.5	4023.1	4018.4	4018.4
17.5°	4068.2	4082.2	4152.2	4225.3	4230.0	4203.5	4146.0	4122.6	4097.7	4080.6	4082.2
20°	4300.0	4295.3	4345.1	4376.2	4343.5	4262.6	4175.5	4136.6	4111.7	4091.5	4093.1
22.5°	4576.9	4541.1	4534.9	4527.1	4440.0	4270.4	4152.2	4102.4	4063.5	4035.5	4044.8
25°	4979.8	4842.9	4748.0	4695.1	4499.1	4228.4	4077.5	3967.1	3893.9	3845.7	3864.4
27.5°	5483.9	5253.6	5014.1	4884.9	4499.1	4142.9	3897.1	3718.1	3598.4	3548.6	3573.5
30°	5964.6	5723.5	5370.3	5113.6	4488.2	4002.8	3606.1	3357.2	3217.2	3167.4	3197.0
32.5°	6375.3	6112.4	5748.3	5364.1	4461.8	3775.7	3245.2	2969.8	2834.5	2775.4	2804.9
35°	6756.4	6476.4	6127.9	5639.4	4391.8	3442.8	2848.5	2638.5	2487.6	2392.7	2423.8
37.5°	7146.9	6814.0	6487.3	5888.4	4265.8	3053.9	2543.6	2364.7	2187.3	2059.8	2094.0
40°	7571.6	7173.4	6871.6	6036.2	4058.8	2683.6	2307.1	2143.8	1955.5	1820.2	1846.6
42.5°	8067.9	7604.3	7299.4	6112.4	3775.7	2420.7	2153.1	1992.9	1815.5	1705.1	1726.8
45°	8586.0	8078.8	7689.9	6110.8	3459.9	2297.8	2103.3	1944.6	1748.6	1633.5	1652.2
47.5°	9128.9	8575.1	8027.5	6011.3	3186.1	2314.9	2075.3	1840.4	1624.2	1512.1	1527.7
50°	9673.4	9118.0	8354.2	5824.6	3069.4	2277.6	1971.1	1694.2	1439.0	1337.9	1344.1
52.5°	10213.2	9695.2	8635.7	5558.6	2951.2	2139.1	1837.3	1504.4	1362.8	1292.8	1292.8
55°	10756.2	10266.1	8942.2	5171.2	2655.6	1977.3	1613.3	1432.8	1302.1	1238.3	1232.1
57.5°	11300.7	10925.7	9233.1	4783.8	2283.8	1778.2	1490.4	1345.7	1241.5	1187.0	1177.7
60°	11867.0	11680.3	9533.4	4427.5	1916.6	1523.0	1400.1	1275.7	1169.9	1109.2	1104.6
62.5°	12450.3	12511.0	9768.3	3968.6	1579.0	1367.5	1319.2	1191.7	1089.0	1031.4	1029.9
65°	13038.4	13312.2	9922.3	3332.3	1280.3	1219.7	1232.1	1099.9	995.7	945.9	944.3
67.5°	13481.8	13889.4	9878.8	2521.8	1050.1	1079.7	1123.2	1003.4	905.4	866.5	868.1
70°	13531.6	13820.9	9449.4	1726.8	879.0	942.8	1001.9	908.5	807.4	779.4	781.0
72.5°	12868.8	12887.5	8253.0	1127.9	743.6	827.6	874.3	812.1	714.1	686.1	684.5
75°	11131.1	10658.2	6059.5	743.6	622.3	711.0	754.5	711.0	616.1	622.3	600.5
77.5°	8433.5	7548.3	3679.3	528.9	519.6	597.4	656.5	625.4	544.5	611.4	538.3
80°	4345.1	4083.7	1641.3	395.2	410.7	477.6	539.8	499.4	430.9	410.7	374.9
82.5°	995.7	1157.4	647.2	283.1	297.1	343.8	412.3	374.9	309.6	261.4	258.2
85°	348.5	381.1	286.3	177.4	174.2	214.7	280.0	250.5	210.0	168.0	177.4
87.5°	110.5	144.7	107.3	71.6	74.7	96.5	129.1	118.2	98.0	63.8	66.9
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)