

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: P648071

Luminaire Tested: **GALN-SA7A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19526.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

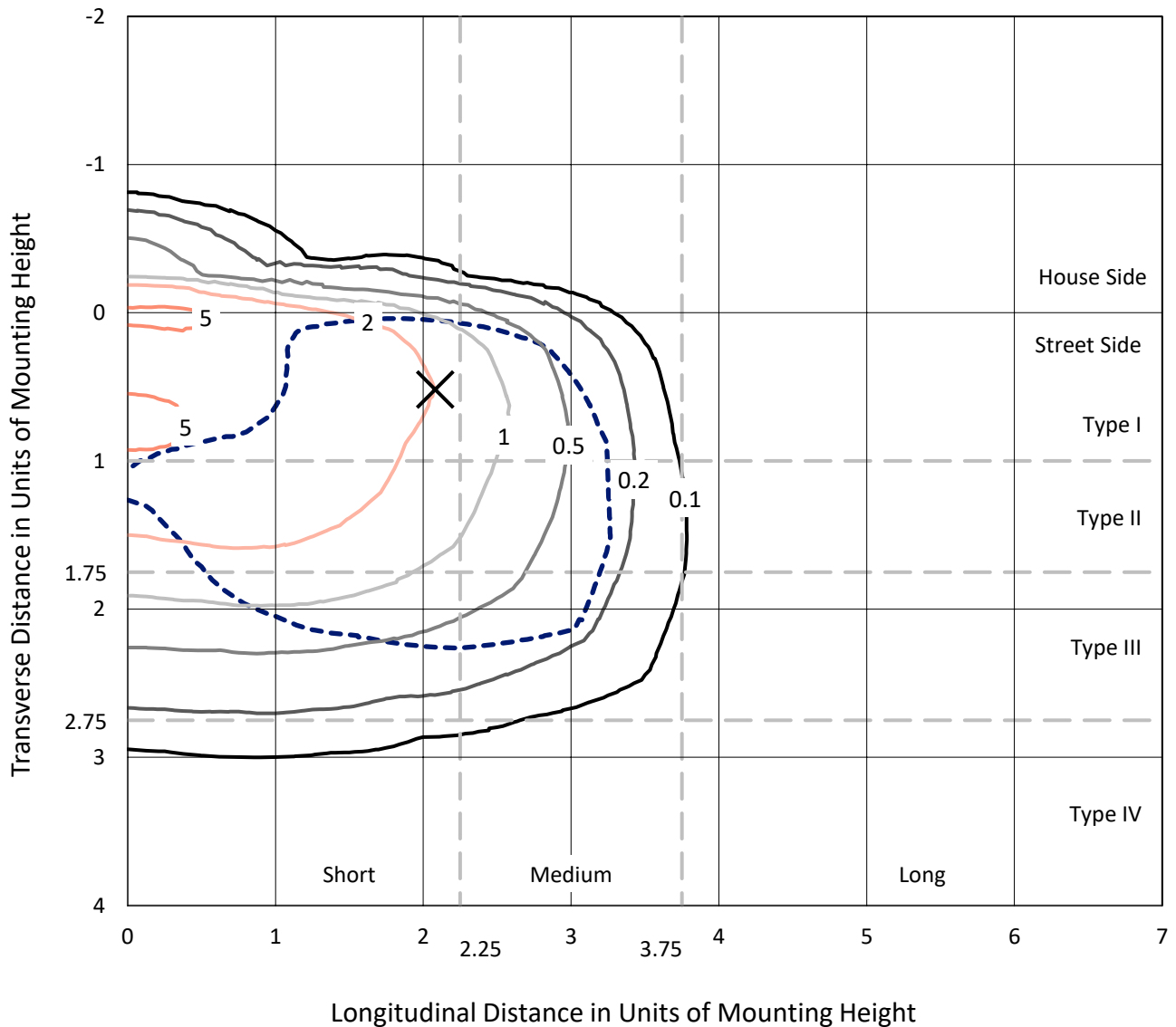
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

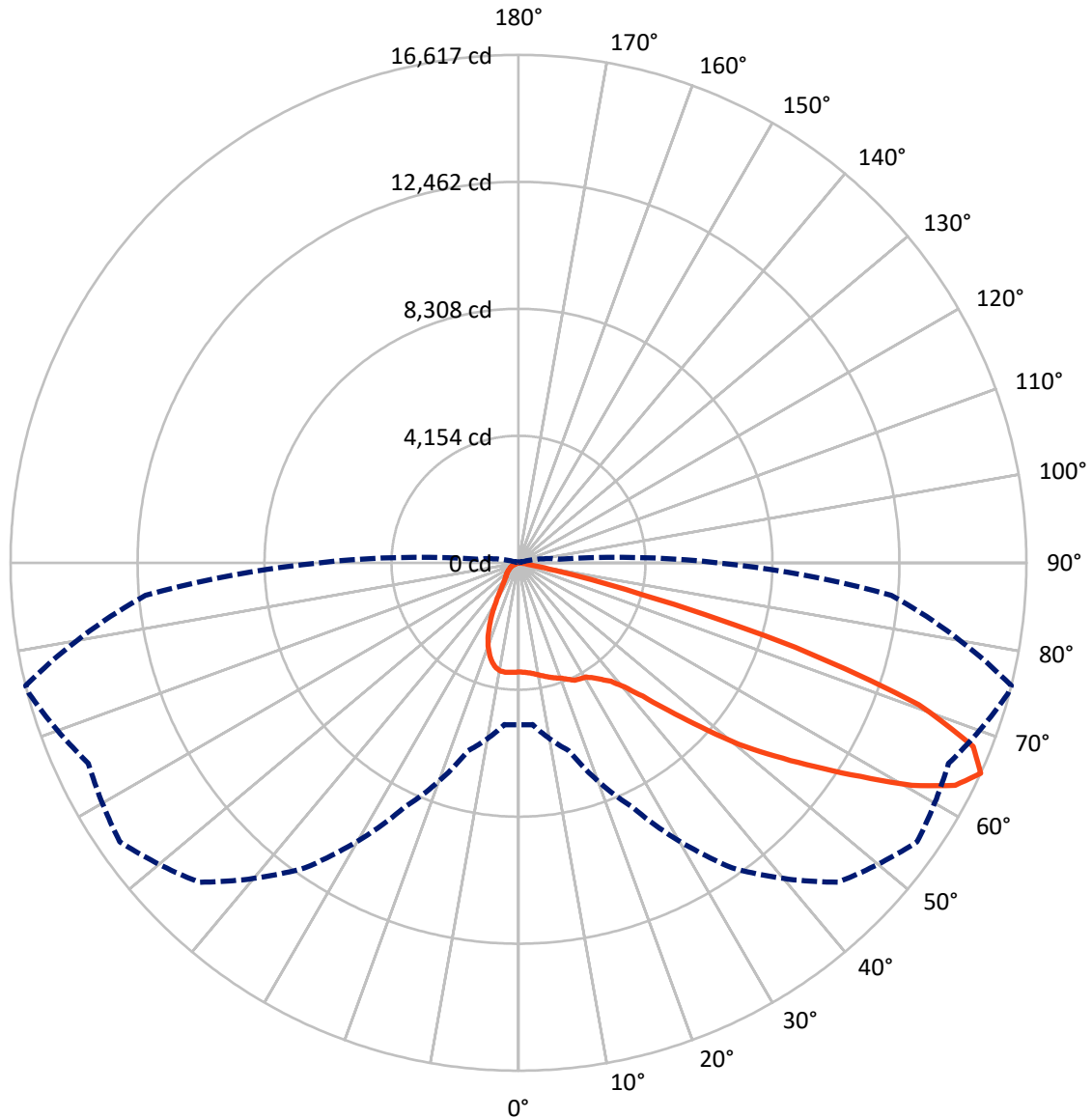
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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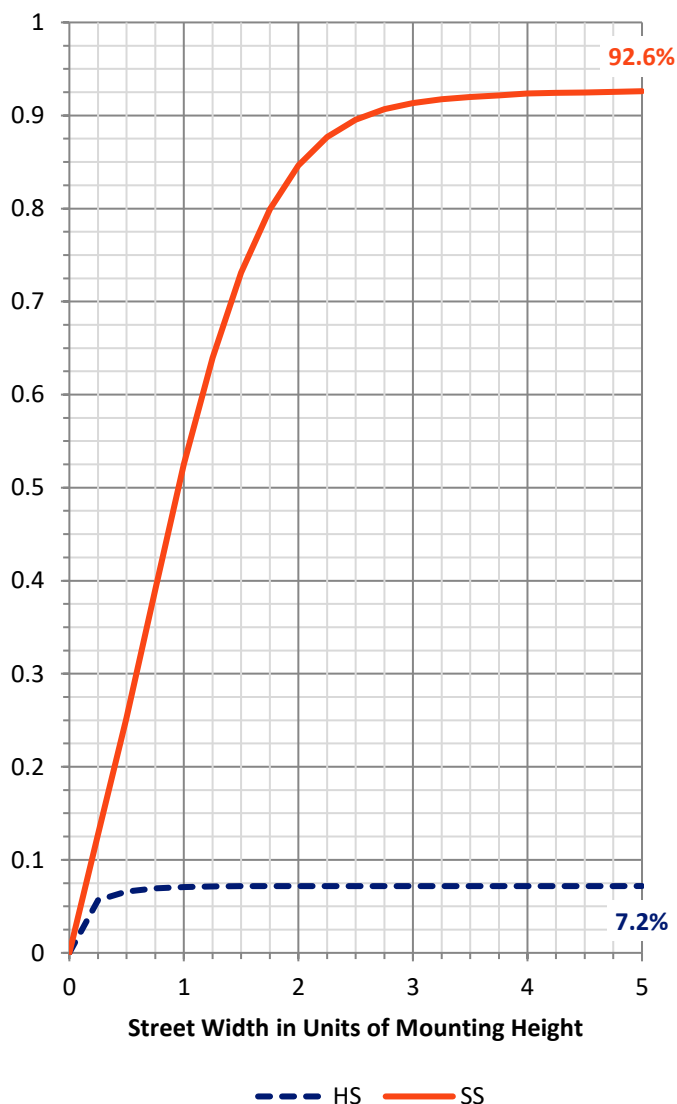
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.2	0.0	1410.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18116.3	0.0	18116.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	19526.5	0.0	19526.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	1.5
10°-20°	655.2	3.4
20°-30°	1055.7	5.4
30°-40°	1835.7	9.4
40°-50°	3033.4	15.5
50°-60°	4685.9	24.0
60°-70°	5722.2	29.3
70°-80°	2171.7	11.1
80°-90°	72.5	0.4
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°	19526.5	100.0
0°-180°	19526.5	100.0

Coefficient of Utilization

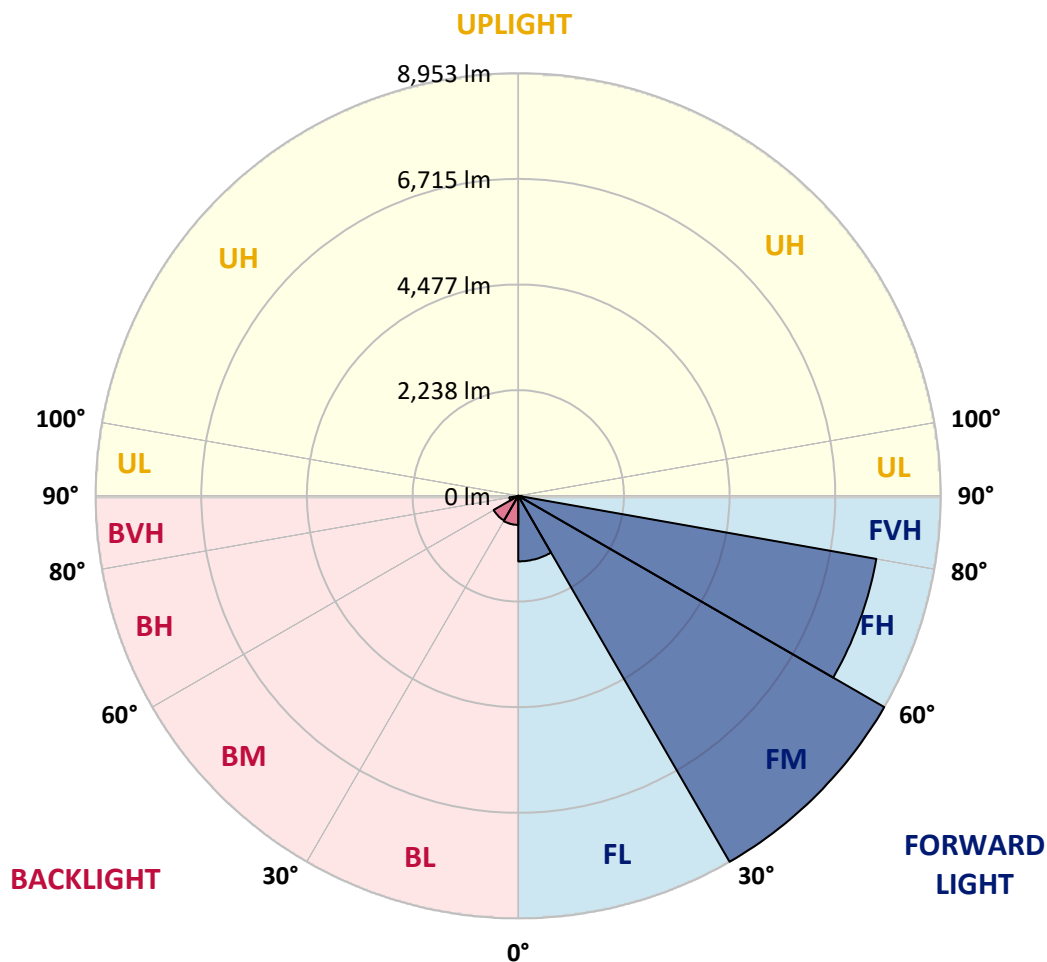


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.1	7.1			
FM (30°-60°)	8953.2	45.9			
FH (60°-80°)	7702.5	39.4			G4/12000
FVH (80°-90°)	71.5	0.4			G1/100
BL (0°-30°)	616.1	3.2	B2/1000		
BM (30°-60°)	601.8	3.1	B1/1000		
BH (60°-80°)	191.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0
2.5°	3413.5	3414.8	3423.1	3443.8	3475.5	3501.7	3523.7	3559.6	3584.4	3587.2	3595.5
5°	3177.7	3161.2	3177.7	3231.5	3279.8	3352.8	3442.5	3532.0	3612.0	3617.5	3656.1
7.5°	2913.0	2926.9	2953.0	3008.1	3099.1	3210.8	3340.4	3500.3	3652.0	3665.8	3741.6
10°	2644.2	2674.5	2717.2	2801.3	2928.2	3073.0	3249.5	3478.2	3715.4	3734.7	3865.7
12.5°	2396.1	2409.8	2462.2	2575.3	2732.4	2936.5	3180.5	3465.9	3785.7	3809.1	3998.0
15°	2205.8	2223.7	2269.2	2371.2	2546.3	2808.2	3123.9	3461.7	3854.6	3887.8	4130.3
17.5°	2169.9	2181.0	2200.3	2269.2	2422.2	2706.2	3073.0	3460.3	3920.8	3960.8	4253.0
20°	2317.4	2307.8	2288.6	2281.6	2365.7	2627.7	3035.7	3471.4	3984.2	4029.7	4382.6
22.5°	2686.9	2699.3	2586.3	2452.6	2425.0	2615.2	3030.2	3523.7	4084.8	4138.6	4527.4
25°	3471.4	3376.2	3199.8	2880.0	2638.7	2691.1	3092.2	3647.8	4202.0	4261.3	4658.4
27.5°	4338.5	4309.6	4035.2	3508.6	3059.2	2851.0	3202.5	3743.0	4240.6	4301.3	4732.8
30°	5190.5	5225.0	4910.7	4328.9	3669.9	3147.4	3305.9	3778.8	4275.1	4338.5	4827.9
32.5°	5980.5	6021.8	5746.1	5169.8	4389.5	3660.2	3483.8	3918.1	4419.9	4484.6	4986.5
35°	6602.3	6607.7	6399.5	5940.5	5175.3	4283.4	3868.4	4162.0	4615.6	4691.4	5154.6
37.5°	7173.0	7164.7	6920.7	6525.1	5830.2	4902.4	4352.3	4443.3	4838.9	4917.6	5397.3
40°	7596.2	7601.8	7523.1	7150.9	6441.0	5474.5	4735.6	4706.6	5213.9	5336.6	5750.3
42.5°	7878.9	7929.8	7968.4	7779.6	7208.8	6179.0	5324.2	5270.5	5864.7	5966.7	6249.3
45°	8107.7	8198.6	8391.6	8382.0	7946.4	7043.4	6132.1	6021.8	6787.0	6895.9	6884.8
47.5°	8274.5	8366.8	8686.7	8879.7	8639.9	7881.6	7148.2	7053.0	7888.5	8007.0	7586.6
50°	8359.9	8470.3	8878.4	9251.9	9181.6	8689.4	8306.2	8311.7	9218.9	9333.3	8399.9
52.5°	8160.0	8303.5	8980.4	9653.1	9789.6	9462.9	9391.1	9573.2	10403.1	10501.0	9134.8
55°	7521.7	7702.4	8841.1	9995.0	10494.1	10375.5	10623.7	10900.8	11697.6	11761.1	9888.9
57.5°	7117.9	7309.5	8430.2	10285.9	11340.6	11522.5	11915.5	12118.1	13033.5	13194.8	10754.7
60°	6777.3	6927.6	8092.5	10348.0	12200.8	12926.0	13307.9	13517.4	14682.3	14787.1	11707.3
62.5°	6210.7	6383.0	7521.7	9915.1	12633.7	14049.5	14840.9	14747.1	15957.5	16030.6	12291.8
65°	5299.4	5314.6	6363.8	8827.3	12187.0	14778.8	15917.6	15524.7	16566.9	16616.5	12246.3
67.5°	3955.2	4101.4	4895.5	6938.6	10294.2	14155.7	16266.4	15545.4	16182.3	16044.4	11274.3
70°	2547.7	2659.4	3318.4	4811.4	7422.5	11813.4	15109.7	14479.7	14202.6	13896.5	9228.5
72.5°	1176.0	1319.4	1971.4	2749.0	4401.9	8415.1	12265.6	11763.8	10222.5	9467.0	5866.0
75°	512.9	548.7	973.3	1450.3	2063.8	4450.2	8087.0	7302.6	4617.0	4217.2	2347.8
77.5°	313.0	336.4	510.1	777.5	810.6	1695.7	4356.5	3186.0	1426.9	1258.7	636.9
80°	212.3	238.5	370.8	406.7	277.1	472.9	1635.1	850.6	288.1	275.7	136.5
82.5°	103.4	131.0	274.4	227.5	120.0	151.7	475.6	182.0	84.1	78.6	48.2
85°	15.2	26.2	154.4	148.9	53.8	35.9	84.1	45.5	29.0	27.6	22.1
87.5°	0.0	0.0	52.4	23.4	5.5	5.5	9.6	9.6	11.0	9.6	11.0
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°	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0
2.5°	3599.6	3606.5	3580.3	3543.1	3503.1	3463.1	3406.6	3355.5	3325.2	3343.2	3299.0
5°	3664.4	3658.9	3589.9	3476.9	3326.7	3146.0	2966.8	2813.8	2764.1	2689.7	2681.4
7.5°	3754.0	3738.8	3592.7	3333.5	2994.3	2655.2	2324.3	2105.2	1979.7	1873.6	1876.3
10°	3879.5	3835.3	3561.0	3081.2	2522.9	2011.4	1589.6	1300.0	1174.6	1134.6	1102.9
12.5°	4009.0	3923.5	3472.8	2740.7	1964.5	1374.5	966.4	790.0	712.8	687.9	685.2
15°	4124.8	3989.7	3318.4	2331.2	1428.3	878.2	659.0	601.1	591.4	592.8	591.4
17.5°	4239.2	4042.2	3104.7	1897.0	970.5	630.0	566.6	552.8	556.9	562.5	561.1
20°	4334.4	4053.1	2831.7	1447.5	686.5	552.8	532.1	529.4	533.5	537.7	537.7
22.5°	4437.8	4061.4	2507.7	1002.2	561.1	514.2	503.2	503.2	508.7	514.2	515.6
25°	4515.0	4015.9	2120.3	719.7	494.9	477.0	471.5	472.9	478.4	481.2	479.7
27.5°	4527.4	3887.8	1709.5	551.5	449.4	431.5	426.0	431.5	424.6	428.8	426.0
30°	4538.4	3725.0	1293.1	464.6	408.1	380.5	372.2	363.9	358.5	351.6	350.2
32.5°	4572.9	3533.4	944.4	417.7	369.5	339.1	319.9	296.4	278.5	273.0	271.6
35°	4588.1	3303.2	693.4	380.5	335.0	301.9	267.5	234.4	208.2	198.5	205.4
37.5°	4645.9	3079.9	537.7	352.9	304.7	263.3	219.2	177.8	153.0	147.5	150.3
40°	4764.6	2837.2	450.8	329.5	278.5	227.5	173.7	133.7	117.2	111.7	110.3
42.5°	4954.7	2596.0	401.2	307.4	252.3	191.6	136.5	104.8	91.0	86.8	86.8
45°	5186.4	2364.3	366.7	284.0	224.7	154.4	107.5	84.1	75.8	73.1	73.1
47.5°	5491.0	2161.7	337.8	260.6	194.4	122.7	86.8	73.1	67.6	68.9	70.3
50°	5799.8	2011.4	306.1	234.4	159.9	100.6	74.5	64.8	63.4	64.8	64.8
52.5°	6032.9	1923.2	263.3	198.5	125.4	84.1	66.2	60.7	59.3	56.5	56.5
55°	6347.2	1903.9	209.5	161.3	99.3	70.3	59.3	55.1	51.0	48.2	46.9
57.5°	6751.1	1925.9	161.3	125.4	77.2	57.9	52.4	45.5	40.0	34.5	34.5
60°	7002.1	1876.3	125.4	96.5	56.5	46.9	40.0	33.1	26.2	22.1	20.7
62.5°	6922.0	1666.8	99.3	71.7	40.0	34.5	26.2	22.1	15.2	11.0	9.6
65°	6509.9	1345.5	79.9	49.6	29.0	20.7	13.8	13.8	6.9	1.4	0.0
67.5°	5697.8	996.8	63.4	33.1	16.5	9.6	6.9	4.1	0.0	0.0	0.0
70°	4637.7	719.7	49.6	20.7	9.6	6.9	2.7	1.4	0.0	0.0	0.0
72.5°	2944.7	412.2	38.6	12.4	6.9	2.7	0.0	0.0	0.0	0.0	0.0
75°	1138.7	161.3	26.2	8.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	322.6	75.8	15.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	84.1	33.1	8.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.0	13.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.4	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)