

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: P651040

Luminaire Tested: **GALN-SA7C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35950.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

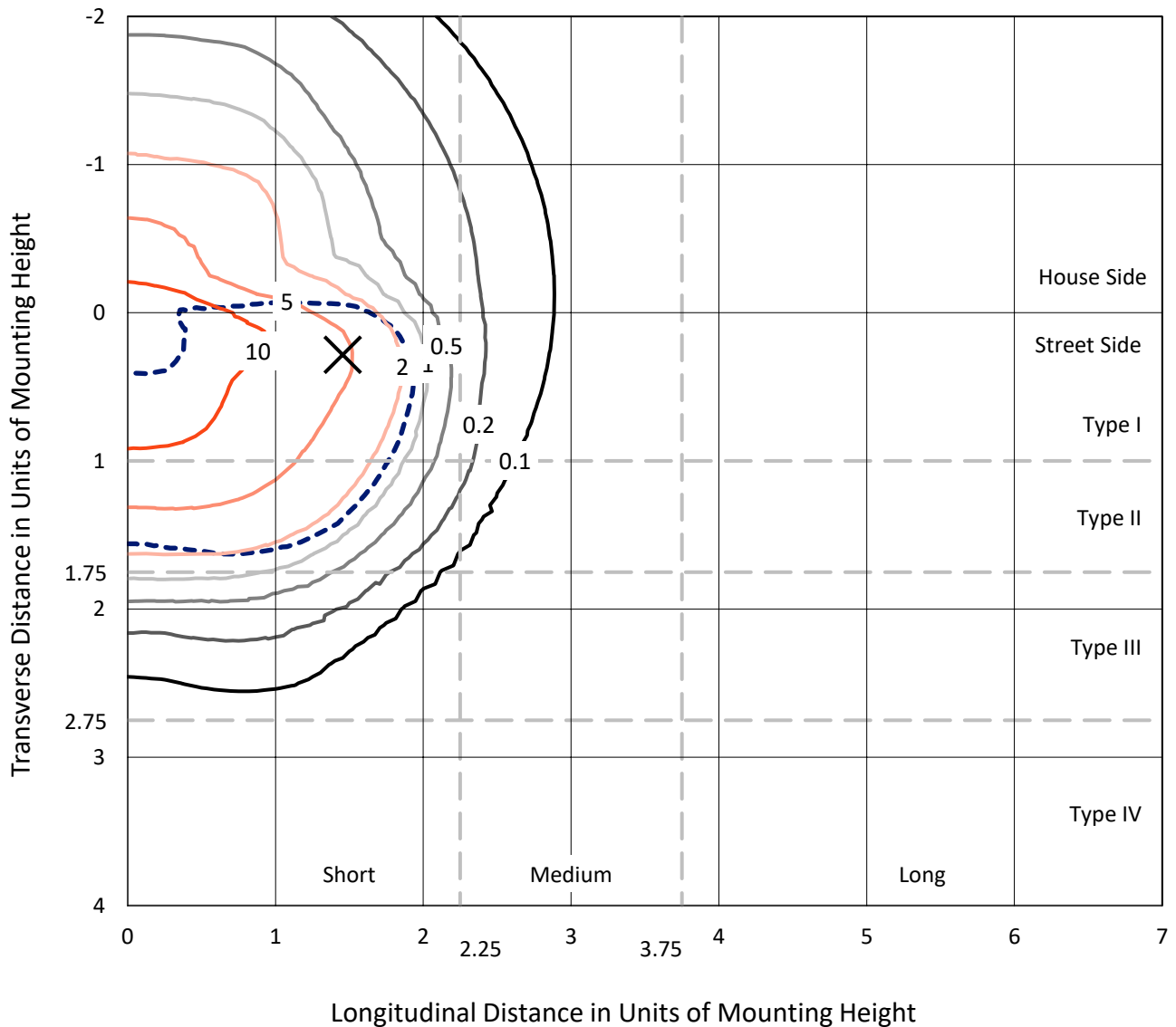
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

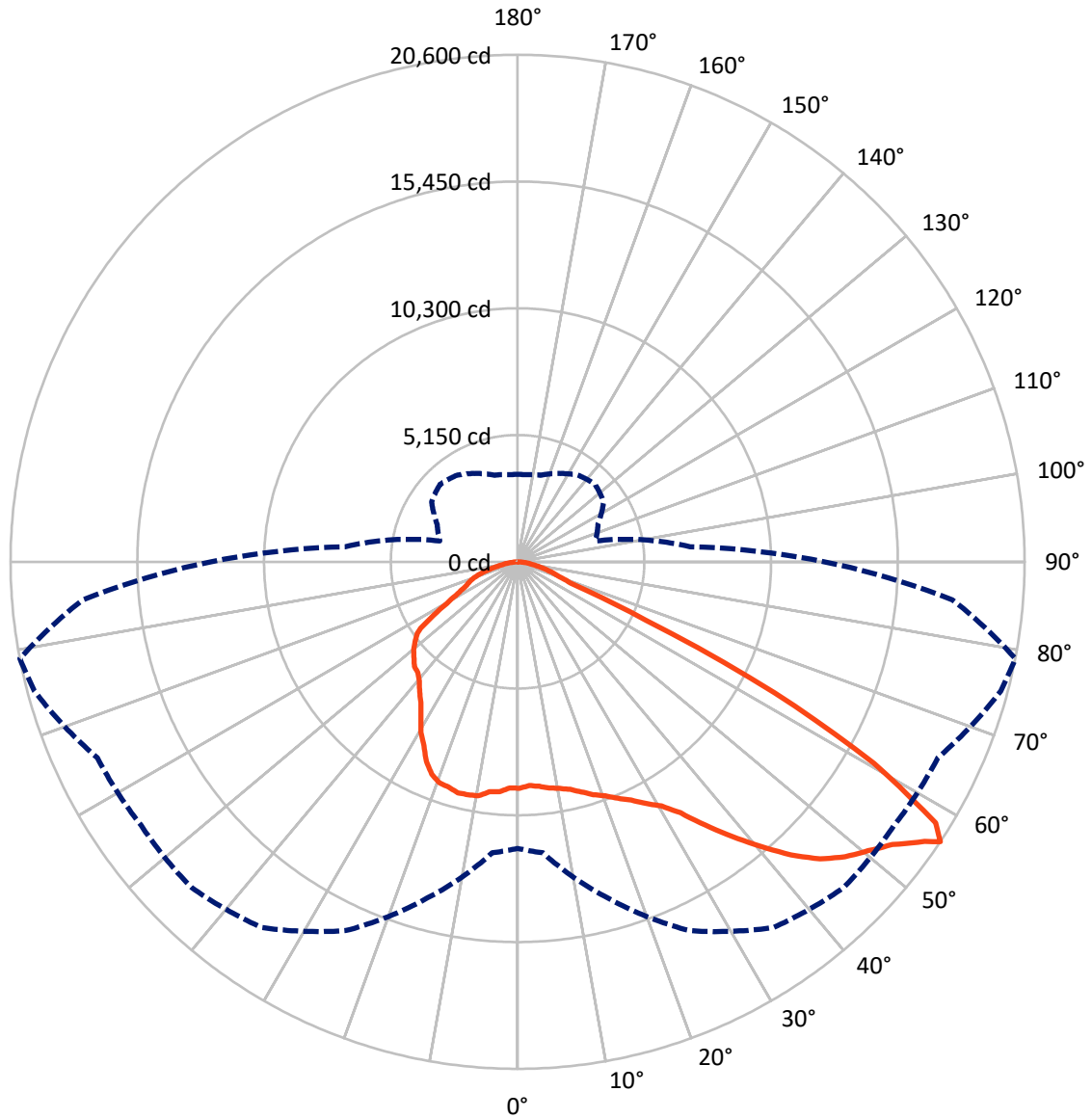
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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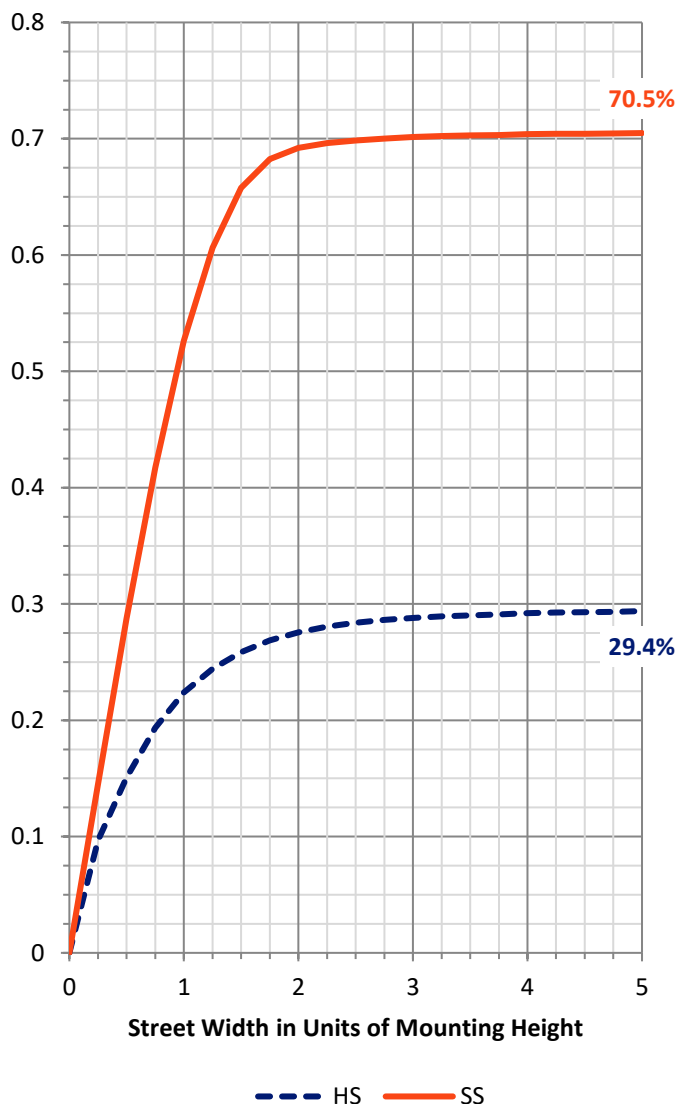
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10616.9	0.0	10616.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25333.3	0.0	25333.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	35950.2	0.0	35950.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.3	2.3
10°-20°	2288.7	6.4
20°-30°	3915.5	10.9
30°-40°	6001.0	16.7
40°-50°	8110.4	22.6
50°-60°	9315.0	25.9
60°-70°	4246.1	11.8
70°-80°	1046.9	2.9
80°-90°	190.3	0.5
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°	35950.2	100.0
0°-180°	35950.2	100.0

Coefficient of Utilization

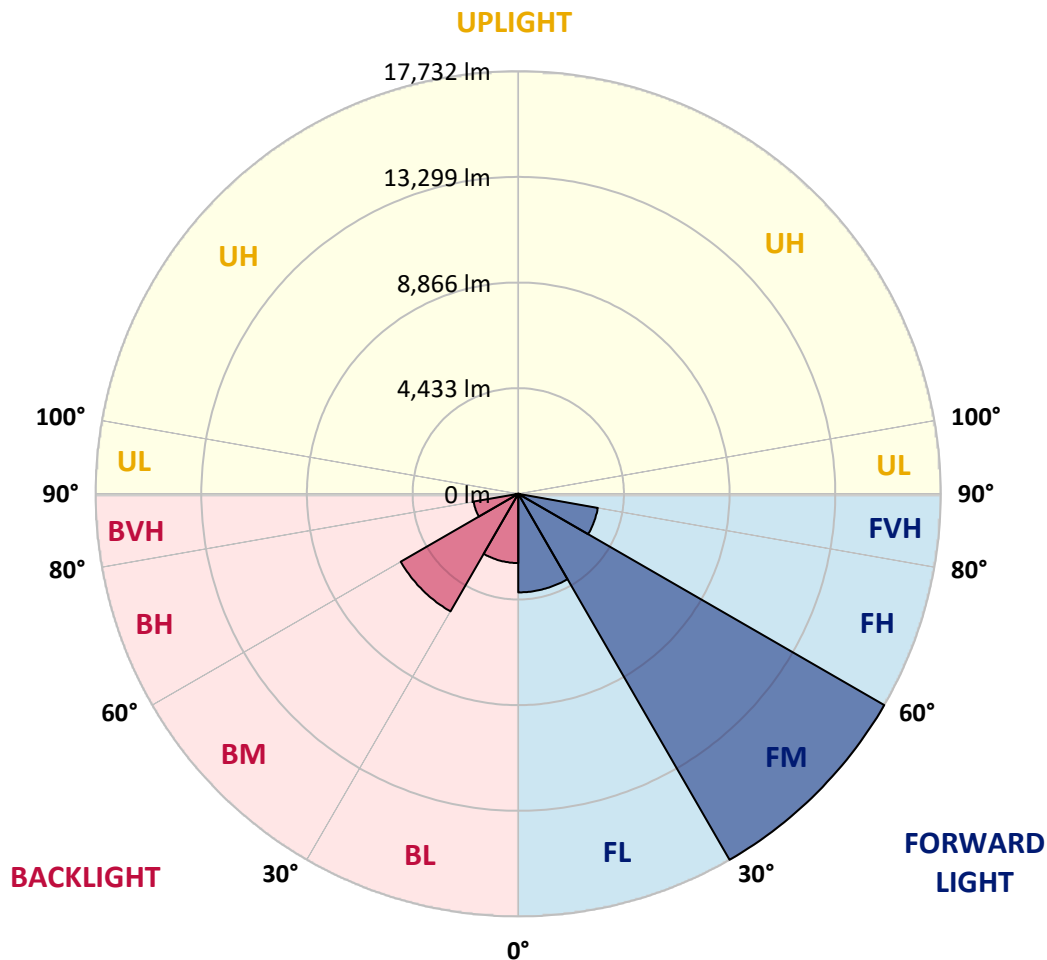


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4136.4	11.5			
FM (30°-60°)	17731.7	49.3			
FH (60°-80°)	3389.3	9.4			G2/5000
FVH (80°-90°)	76.0	0.2			G1/100
BL (0°-30°)	2904.2	8.1	B4/5000		
BM (30°-60°)	5694.8	15.8	B4/8500		
BH (60°-80°)	1903.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	114.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3
2.5°	8750.4	8728.1	8781.8	8822.1	8871.3	8934.0	8965.4	8983.3	9140.0	9099.7	9220.6
5°	8562.3	8504.1	8544.4	8575.8	8660.9	8737.0	8822.1	8956.4	9099.7	9162.4	9310.2
7.5°	8396.6	8365.3	8356.3	8378.7	8495.2	8593.7	8741.4	8938.5	9171.4	9274.4	9359.5
10°	8123.5	8078.6	8145.8	8293.6	8325.0	8531.0	8701.2	8983.3	9184.8	9363.9	9614.7
12.5°	8002.5	7957.8	7971.3	8056.3	8275.7	8472.7	8674.3	8992.2	9417.7	9489.3	9825.2
15°	8195.1	8150.3	8163.8	8141.4	8351.9	8454.8	8772.8	9171.4	9578.9	9699.8	10058.0
17.5°	8634.0	8638.5	8580.2	8531.0	8481.7	8701.2	8920.6	9278.8	9641.6	9946.1	10214.8
20°	9471.4	9323.7	9207.2	8929.6	8853.5	8947.5	9225.1	9569.9	9896.8	10147.6	10452.1
22.5°	10116.3	10129.7	9964.0	9507.3	9341.6	9381.9	9619.2	9901.3	10259.6	10438.7	10788.0
25°	11052.3	10958.1	10779.0	10416.3	10044.7	10075.9	10250.6	10505.9	10604.4	10729.8	11110.5
27.5°	11907.6	11934.5	11580.7	11240.3	10779.0	10689.4	11003.0	11047.7	10882.0	11119.4	11249.3
30°	12776.3	12753.9	12521.1	12122.5	11670.2	11688.1	11827.0	11607.5	11379.2	11509.0	11598.6
32.5°	13676.4	13421.2	13412.3	13054.0	12709.2	12543.4	12373.3	12480.8	12127.0	12153.9	12068.8
35°	14397.4	14433.2	14227.3	13972.0	13801.8	13510.7	13045.0	13237.6	13170.4	13139.0	12771.8
37.5°	14921.4	14782.6	14885.5	14800.5	14639.3	14276.6	13792.9	13976.5	14007.9	14160.1	13734.6
40°	15351.3	15293.1	15566.2	15611.1	15499.0	14715.4	13846.6	14393.0	14863.2	15194.6	14688.5
42.5°	15557.3	15682.7	15969.3	16314.1	16063.4	15225.9	14124.3	14710.9	15758.8	16282.8	15593.1
45°	15834.9	15673.7	16099.2	16730.6	16735.1	15655.8	14393.0	15140.9	16457.4	17218.7	16211.1
47.5°	15552.8	15633.4	16072.3	16873.9	17079.9	16108.1	15118.4	15749.8	17227.6	17903.9	16784.3
50°	14921.4	15082.6	15884.2	16717.1	17339.7	16587.3	15951.4	16408.2	17939.7	18454.7	16878.4
52.5°	14263.1	14352.7	15606.5	16838.1	17456.0	17205.3	17066.4	17317.2	18808.5	19077.2	16994.8
55°	12471.8	12897.2	14688.5	16784.3	18024.8	18320.3	18212.9	18580.0	19793.7	20062.4	17630.7
56°	11643.3	11867.3	14137.7	16533.6	18136.8	18727.9	18674.2	18839.8	20317.6	20599.8	17729.2
57.5°	10111.8	10129.7	12055.3	15422.9	17715.8	18848.7	18795.0	18924.9	20214.6	20022.1	16864.9
60°	6327.7	6605.4	8204.0	11862.8	15064.7	17487.4	17791.9	16748.5	17044.0	16636.6	13121.1
62.5°	3278.0	3237.8	4299.1	6936.7	9999.8	12521.1	12803.2	12753.9	12297.2	11701.6	8571.3
65°	1634.6	1643.5	2248.1	3434.8	5123.0	6556.1	7344.3	7429.3	6215.7	5718.6	4066.2
67.5°	1186.7	1231.5	1616.7	2100.3	2413.8	2700.4	3309.4	3246.7	2458.5	2337.6	2167.4
70°	922.5	962.8	1312.1	1603.2	1455.4	1455.4	1585.3	1639.0	1751.0	1800.2	1858.4
72.5°	671.7	703.1	1003.1	1106.1	953.9	1025.5	1186.7	1312.1	1428.5	1446.4	1513.6
75°	461.3	488.1	658.3	609.1	573.2	707.5	868.8	985.2	1070.3	1115.1	1155.4
77.5°	300.1	309.0	376.2	318.0	367.2	456.7	564.2	662.8	747.9	783.7	792.6
80°	134.3	147.8	161.2	201.5	255.2	326.9	403.0	483.7	537.4	550.9	577.7
82.5°	76.1	76.1	98.5	143.3	188.0	237.3	291.1	349.3	412.0	425.5	420.9
85°	40.3	40.3	58.2	85.1	116.4	138.8	134.3	138.8	147.8	170.1	165.7
87.5°	13.5	13.5	17.9	17.9	22.4	26.8	22.4	31.4	40.3	40.3	40.3
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°	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3	9198.3
2.5°	9184.8	9225.1	9171.4	9287.8	9287.8	9265.4	9153.4	9189.3	9216.2	9216.2	9238.6
5°	9359.5	9346.0	9381.9	9243.0	9157.9	9126.6	8942.9	8853.5	8777.3	8772.8	8705.6
7.5°	9458.0	9422.1	9408.7	9305.7	8929.6	8701.2	8307.1	8078.6	8029.4	7854.8	7922.0
10°	9614.7	9681.8	9614.7	9055.0	8531.0	8007.1	7621.9	7268.1	7129.3	7017.4	6950.2
12.5°	9937.2	9905.8	9516.2	8759.4	8025.0	7402.5	6829.3	6457.5	6318.8	6220.2	6211.3
15°	10210.3	10053.6	9458.0	8293.6	7236.8	6574.0	6103.8	5839.6	5776.9	5785.8	5826.1
17.5°	10304.4	10196.9	9153.4	7810.0	6650.1	5870.9	5651.5	5611.2	5669.4	5736.5	5754.5
20°	10452.1	10282.0	9028.1	7151.7	5924.7	5432.1	5418.6	5562.0	5669.4	5767.9	5781.4
22.5°	10761.1	10331.3	8620.6	6529.2	5427.6	5302.2	5432.1	5553.0	5718.6	5799.3	5727.6
25°	10850.7	10223.8	8047.4	5781.4	5114.1	5221.6	5360.4	5526.1	5642.5	5687.3	5718.6
27.5°	10926.9	10058.0	7272.6	5284.3	5015.6	5217.1	5360.4	5499.2	5562.0	5602.2	5638.1
30°	11141.8	10008.8	6600.8	4952.9	4952.9	5127.6	5311.2	5347.0	5432.1	5481.3	5544.0
32.5°	11249.3	9668.5	5911.2	4742.4	4890.2	5172.3	5185.8	5253.0	5257.4	5297.7	5230.5
35°	11531.4	9426.6	5270.9	4590.2	4917.1	5127.6	5194.7	5154.4	4935.0	4827.5	4849.9
37.5°	11737.4	9305.7	4809.6	4572.3	4921.5	5176.8	5212.6	4908.1	4679.7	4500.6	4545.4
40°	12292.6	9005.7	4460.3	4540.9	4961.8	5230.5	5132.0	4800.7	4388.7	4205.0	4173.7
42.5°	12718.1	8790.7	4240.8	4505.1	4993.2	5306.7	5091.8	4585.7	4164.7	3994.6	4039.3
45°	13210.7	8741.4	4124.4	4514.1	5046.9	5347.0	5042.5	4420.0	3972.2	3905.0	3891.6
47.5°	13385.4	8387.7	3999.0	4437.9	5033.5	5333.5	4876.8	4294.6	3900.6	3909.5	3945.3
50°	13094.3	8025.0	3905.0	4281.2	4943.9	5212.6	4617.0	4128.9	3860.2	3972.2	4034.9
52.5°	12722.6	7653.3	3712.4	4070.7	4760.3	5024.6	4496.2	4120.0	3819.9	3784.1	3797.5
55°	12834.6	7348.7	3443.7	3784.1	4464.8	4675.3	4361.8	4034.9	3721.4	3587.0	3631.9
56°	12471.8	7035.3	3269.1	3604.9	4263.3	4451.3	4294.6	3958.8	3640.8	3551.2	3551.2
57.5°	11446.3	5982.9	3040.7	3318.3	3837.8	4061.7	4164.7	3913.9	3551.2	3394.4	3399.0
60°	8441.5	4254.3	2727.2	2924.2	3179.6	3358.6	3837.8	3788.5	3327.3	3219.9	3179.6
62.5°	5203.7	3107.9	2503.3	2579.4	2709.3	2857.1	3349.7	3430.3	3090.0	2973.5	2946.7
65°	2915.3	2377.9	2333.2	2364.5	2427.2	2503.3	2780.9	2960.1	2727.2	2548.1	2539.1
67.5°	2131.6	2127.1	2163.0	2189.9	2216.7	2216.7	2283.9	2355.6	2324.2	2180.9	2167.4
70°	1894.3	1907.7	1934.6	1939.1	1948.0	1916.6	1862.9	1840.5	1876.4	1786.8	1768.9
72.5°	1562.9	1607.7	1639.0	1643.5	1594.3	1553.9	1482.3	1406.2	1379.3	1361.4	1356.9
75°	1200.2	1231.5	1244.9	1240.5	1222.6	1164.4	1079.3	1003.1	953.9	900.1	927.0
77.5°	810.6	855.3	877.8	877.8	850.8	761.3	721.0	662.8	613.5	555.3	564.2
80°	568.8	600.1	635.9	631.4	586.7	541.9	483.7	429.9	389.6	344.8	340.4
82.5°	425.5	443.4	461.3	452.3	420.9	376.2	335.9	286.6	241.8	210.5	210.5
85°	152.2	165.7	201.5	210.5	228.4	228.4	192.6	161.2	129.9	107.5	107.5
87.5°	44.7	44.7	49.3	49.3	44.7	49.3	40.3	44.7	49.3	31.4	31.4
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)