

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: P531704

Luminaire Tested: **GALN-SA7A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531704
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-SA7A-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 25323 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

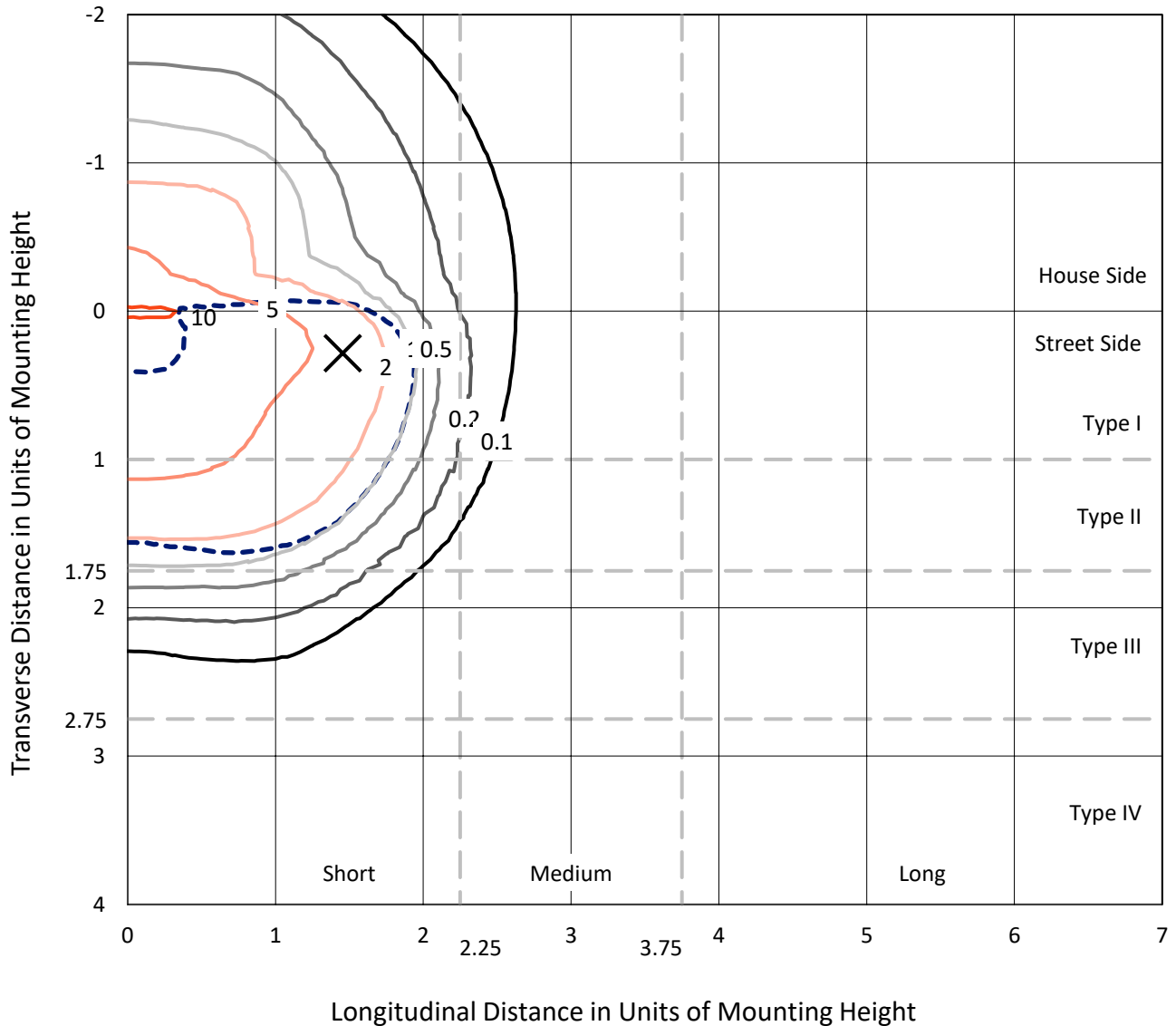
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

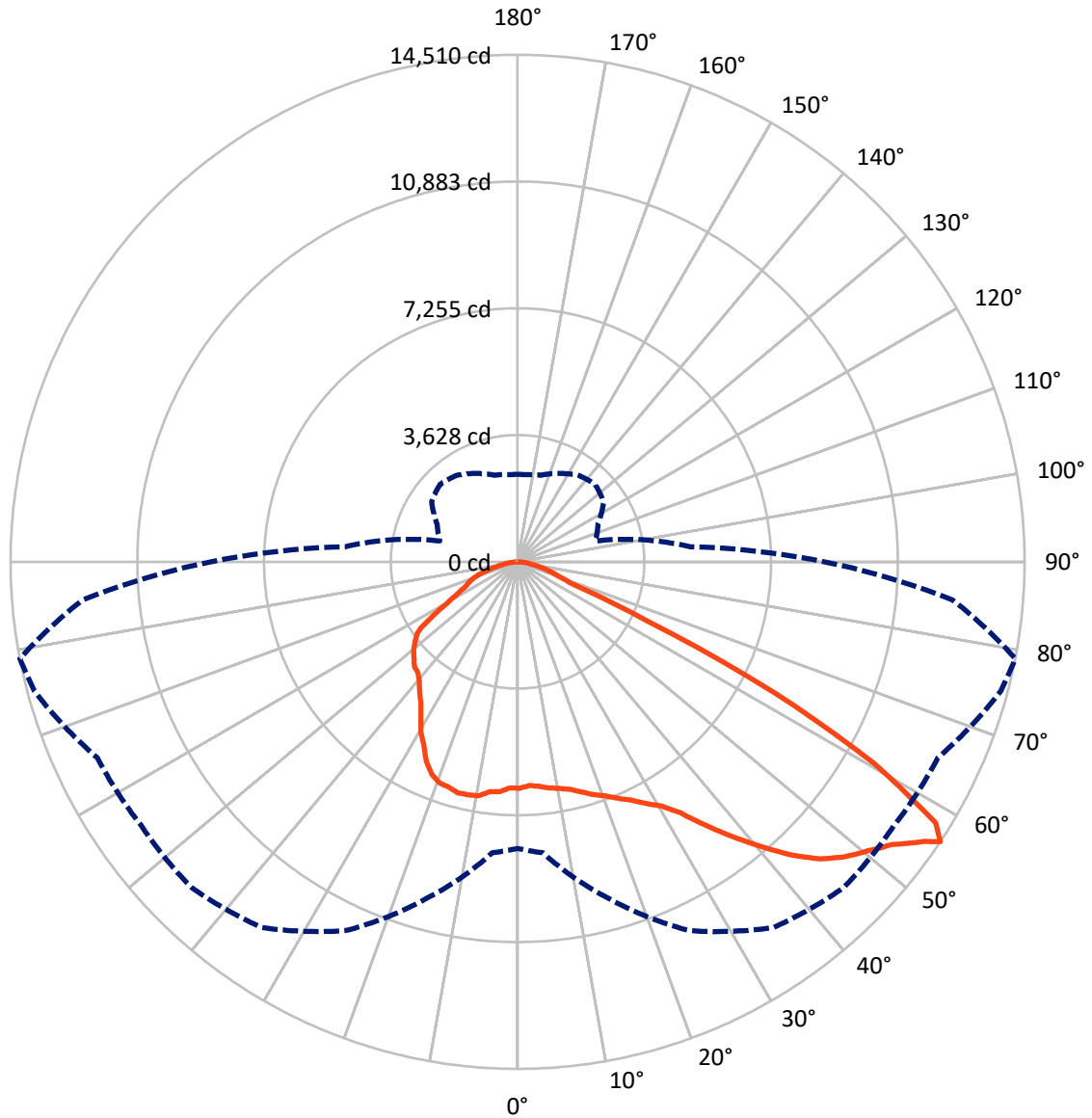
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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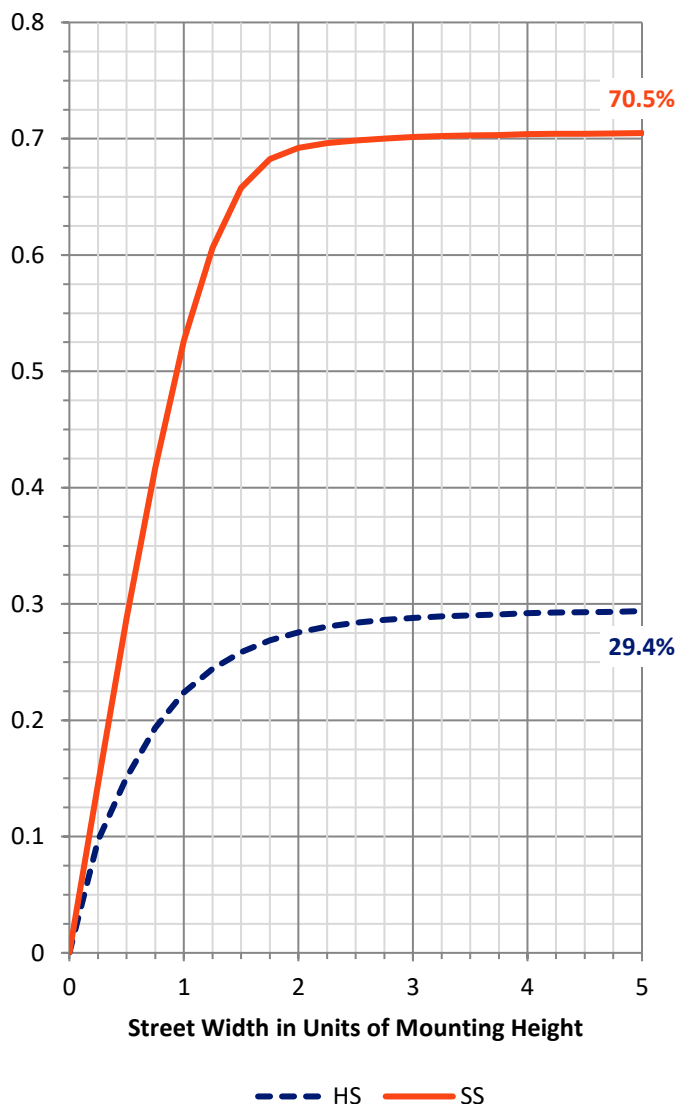
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7478.4	0.0	7478.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17844.6	0.0	17844.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	25323.0	0.0	25323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.1	2.3
10°-20°	1612.1	6.4
20°-30°	2758.1	10.9
30°-40°	4227.1	16.7
40°-50°	5712.9	22.6
50°-60°	6561.4	25.9
60°-70°	2990.9	11.8
70°-80°	737.4	2.9
80°-90°	134.0	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°	25323.0	100.0
0°-180°	25323.0	100.0

Coefficient of Utilization



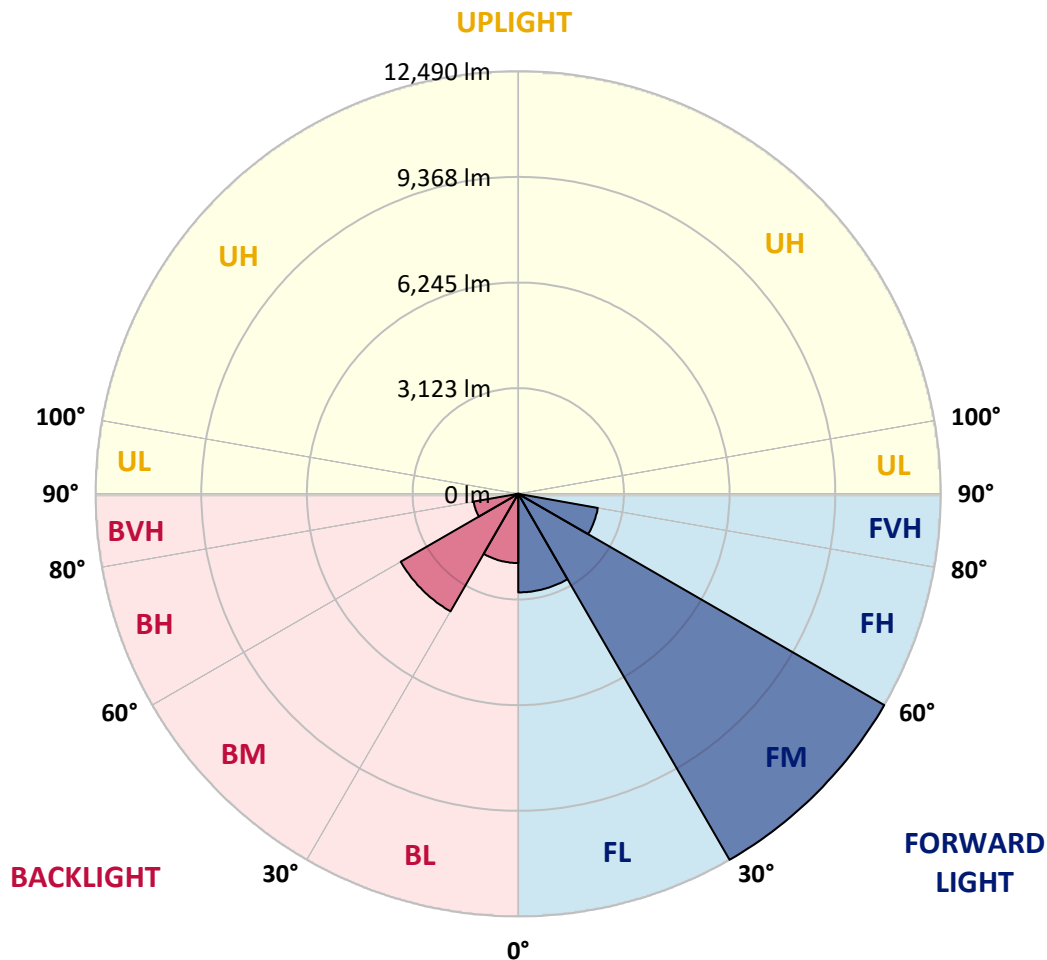
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.6	11.5			
FM (30°-60°)	12490.1	49.3			
FH (60°-80°)	2387.4	9.4			G2/5000
FVH (80°-90°)	53.5	0.2			G1/100
BL (0°-30°)	2045.7	8.1	B3/2500		
BM (30°-60°)	4011.3	15.8	B3/5000		
BH (60°-80°)	1340.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	80.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2
2.5°	6163.7	6147.9	6185.8	6214.2	6248.9	6293.0	6315.1	6327.7	6438.1	6409.8	6494.9
5°	6031.2	5990.2	6018.6	6040.7	6100.6	6154.2	6214.2	6308.8	6409.8	6453.9	6558.0
7.5°	5914.5	5892.4	5886.1	5901.9	5983.9	6053.3	6157.4	6296.2	6460.2	6532.8	6592.7
10°	5722.1	5690.6	5737.9	5842.0	5864.0	6009.1	6129.0	6327.7	6469.7	6595.9	6772.5
12.5°	5636.9	5605.4	5614.8	5674.8	5829.3	5968.1	6110.1	6334.1	6633.7	6684.2	6920.8
15°	5772.6	5741.0	5750.5	5734.7	5883.0	5955.5	6179.5	6460.2	6747.3	6832.4	7084.8
17.5°	6081.7	6084.9	6043.8	6009.1	5974.4	6129.0	6283.6	6535.9	6791.4	7005.9	7195.2
20°	6671.6	6567.5	6485.5	6289.9	6236.3	6302.5	6498.1	6741.0	6971.2	7147.9	7362.4
22.5°	7125.8	7135.3	7018.6	6696.8	6580.1	6608.5	6775.7	6974.4	7226.7	7352.9	7599.0
25°	7785.1	7718.8	7592.7	7337.2	7075.3	7097.4	7220.4	7400.2	7469.6	7558.0	7826.1
27.5°	8387.6	8406.5	8157.3	7917.6	7592.7	7529.6	7750.4	7781.9	7665.2	7832.4	7923.9
30°	8999.5	8983.8	8819.7	8539.0	8220.4	8233.0	8330.8	8176.2	8015.3	8106.8	8169.9
32.5°	9633.6	9453.8	9447.5	9195.1	8952.2	8835.5	8715.6	8791.3	8542.1	8561.1	8501.1
35°	10141.4	10166.7	10021.6	9841.8	9721.9	9516.8	9188.8	9324.4	9277.1	9255.0	8996.4
37.5°	10510.5	10412.7	10485.3	10425.3	10311.8	10056.3	9715.6	9844.9	9867.0	9974.2	9674.6
40°	10813.3	10772.3	10964.7	10996.3	10917.4	10365.4	9753.4	10138.3	10469.5	10702.9	10346.5
42.5°	10958.4	11046.7	11248.6	11491.5	11314.9	10725.0	9949.0	10362.2	11100.4	11469.4	10983.6
45°	11154.0	11040.4	11340.1	11784.9	11788.0	11027.8	10138.3	10665.1	11592.4	12128.7	11419.0
47.5°	10955.3	11012.0	11321.2	11885.8	12030.9	11346.4	10649.3	11094.1	12135.0	12611.3	11822.7
50°	10510.5	10624.0	11188.7	11775.4	12213.9	11683.9	11236.0	11557.7	12636.6	12999.3	11889.0
52.5°	10046.8	10109.9	10993.1	11860.6	12295.9	12119.2	12021.4	12198.1	13248.5	13437.8	11971.0
55°	8785.0	9084.7	10346.5	11822.7	12696.5	12904.7	12829.0	13087.6	13942.5	14131.7	12418.9
56°	8201.5	8359.2	9958.5	11646.1	12775.4	13191.7	13153.9	13270.6	14311.5	14510.3	12488.3
57.5°	7122.7	7135.3	8491.7	10863.8	12478.8	13276.9	13239.0	13330.5	14239.0	14103.4	11879.5
60°	4457.2	4652.8	5778.9	8356.0	10611.4	12318.0	12532.5	11797.5	12005.7	11718.6	9242.4
62.5°	2309.0	2280.6	3028.2	4886.2	7043.8	8819.7	9018.5	8983.8	8662.0	8242.5	6037.5
65°	1151.4	1157.7	1583.5	2419.4	3608.6	4618.1	5173.2	5233.2	4378.3	4028.2	2864.2
67.5°	835.9	867.5	1138.7	1479.4	1700.2	1902.1	2331.1	2286.9	1731.8	1646.6	1526.7
70°	649.8	678.2	924.2	1129.3	1025.2	1025.2	1116.7	1154.5	1233.4	1268.1	1309.1
72.5°	473.2	495.2	706.6	779.1	671.9	722.4	835.9	924.2	1006.3	1018.9	1066.2
75°	324.9	343.8	463.7	429.0	403.8	498.4	612.0	694.0	753.9	785.4	813.8
77.5°	211.3	217.7	265.0	224.0	258.7	321.7	397.5	466.9	526.8	552.0	558.3
80°	94.6	104.1	113.6	141.9	179.8	230.3	283.9	340.7	378.5	388.0	406.9
82.5°	53.6	53.6	69.4	100.9	132.5	167.2	205.0	246.0	290.2	299.7	296.5
85°	28.4	28.4	41.0	59.9	82.0	97.8	94.6	97.8	104.1	119.9	116.7
87.5°	9.5	9.5	12.6	12.6	15.8	18.9	15.8	22.1	28.4	28.4	28.4
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°	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2	6479.2
2.5°	6469.7	6498.1	6460.2	6542.2	6542.2	6526.5	6447.6	6472.8	6491.8	6491.8	6507.5
5°	6592.7	6583.2	6608.5	6510.7	6450.8	6428.7	6299.4	6236.3	6182.6	6179.5	6132.2
7.5°	6662.1	6636.9	6627.4	6554.9	6289.9	6129.0	5851.4	5690.6	5655.9	5532.8	5580.1
10°	6772.5	6819.8	6772.5	6378.2	6009.1	5640.1	5368.8	5119.6	5021.8	4943.0	4895.6
12.5°	6999.6	6977.5	6703.1	6170.0	5652.7	5214.2	4810.5	4548.7	4450.9	4381.5	4375.2
15°	7192.0	7081.6	6662.1	5842.0	5097.5	4630.7	4299.5	4113.3	4069.2	4075.5	4103.9
17.5°	7258.3	7182.6	6447.6	5501.3	4684.3	4135.4	3980.9	3952.5	3993.5	4040.8	4053.4
20°	7362.4	7242.5	6359.3	5037.6	4173.3	3826.3	3816.8	3917.8	3993.5	4062.9	4072.3
22.5°	7580.0	7277.2	6072.2	4599.1	3823.1	3734.8	3826.3	3911.5	4028.2	4085.0	4034.5
25°	7643.1	7201.5	5668.5	4072.3	3602.3	3678.0	3775.8	3892.5	3974.6	4006.1	4028.2
27.5°	7696.8	7084.8	5122.8	3722.2	3532.9	3674.9	3775.8	3873.6	3917.8	3946.2	3971.4
30°	7848.2	7050.1	4649.6	3488.8	3488.8	3611.8	3741.1	3766.4	3826.3	3861.0	3905.2
32.5°	7923.9	6810.4	4163.8	3340.5	3444.6	3643.3	3652.8	3700.1	3703.3	3731.7	3684.3
35°	8122.6	6640.0	3712.7	3233.3	3463.5	3611.8	3659.1	3630.7	3476.2	3400.5	3416.2
37.5°	8267.7	6554.9	3387.8	3220.7	3466.7	3646.5	3671.7	3457.2	3296.4	3170.2	3201.7
40°	8658.8	6343.5	3141.8	3198.6	3495.1	3684.3	3615.0	3381.5	3091.3	2962.0	2939.9
42.5°	8958.5	6192.1	2987.2	3173.3	3517.2	3738.0	3586.6	3230.1	2933.6	2813.7	2845.3
45°	9305.5	6157.4	2905.2	3179.6	3555.0	3766.4	3551.9	3113.4	2798.0	2750.6	2741.2
47.5°	9428.5	5908.2	2816.9	3126.0	3545.6	3756.9	3435.1	3025.1	2747.5	2753.8	2779.0
50°	9223.5	5652.7	2750.6	3015.6	3482.5	3671.7	3252.2	2908.4	2719.1	2798.0	2842.1
52.5°	8961.7	5390.9	2615.0	2867.4	3353.1	3539.2	3167.0	2902.1	2690.7	2665.5	2674.9
55°	9040.5	5176.4	2425.7	2665.5	3144.9	3293.2	3072.4	2842.1	2621.3	2526.7	2558.2
56°	8785.0	4955.6	2302.7	2539.3	3003.0	3135.5	3025.1	2788.5	2564.5	2501.4	2501.4
57.5°	8062.7	4214.3	2141.8	2337.4	2703.3	2861.0	2933.6	2757.0	2501.4	2391.0	2394.2
60°	5946.1	2996.7	1921.0	2059.8	2239.6	2365.8	2703.3	2668.6	2343.7	2268.0	2239.6
62.5°	3665.4	2189.2	1763.3	1816.9	1908.4	2012.5	2359.5	2416.3	2176.5	2094.5	2075.6
65°	2053.5	1675.0	1643.4	1665.5	1709.7	1763.3	1958.9	2085.1	1921.0	1794.9	1788.5
67.5°	1501.5	1498.3	1523.6	1542.5	1561.4	1561.4	1608.7	1659.2	1637.1	1536.2	1526.7
70°	1334.3	1343.8	1362.7	1365.9	1372.2	1350.1	1312.2	1296.5	1321.7	1258.6	1246.0
72.5°	1100.9	1132.4	1154.5	1157.7	1123.0	1094.6	1044.1	990.5	971.6	958.9	955.8
75°	845.4	867.5	876.9	873.8	861.2	820.1	760.2	706.6	671.9	634.0	653.0
77.5°	570.9	602.5	618.3	618.3	599.3	536.2	507.9	466.9	432.2	391.1	397.5
80°	400.6	422.7	447.9	444.8	413.2	381.7	340.7	302.8	274.4	242.9	239.7
82.5°	299.7	312.3	324.9	318.6	296.5	265.0	236.6	201.9	170.3	148.3	148.3
85°	107.2	116.7	141.9	148.3	160.9	160.9	135.6	113.6	91.5	75.7	75.7
87.5°	31.5	31.5	34.7	34.7	31.5	34.7	28.4	31.5	34.7	22.1	22.1
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)