

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: P531909

Luminaire Tested: **GALN-SA7B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19793 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

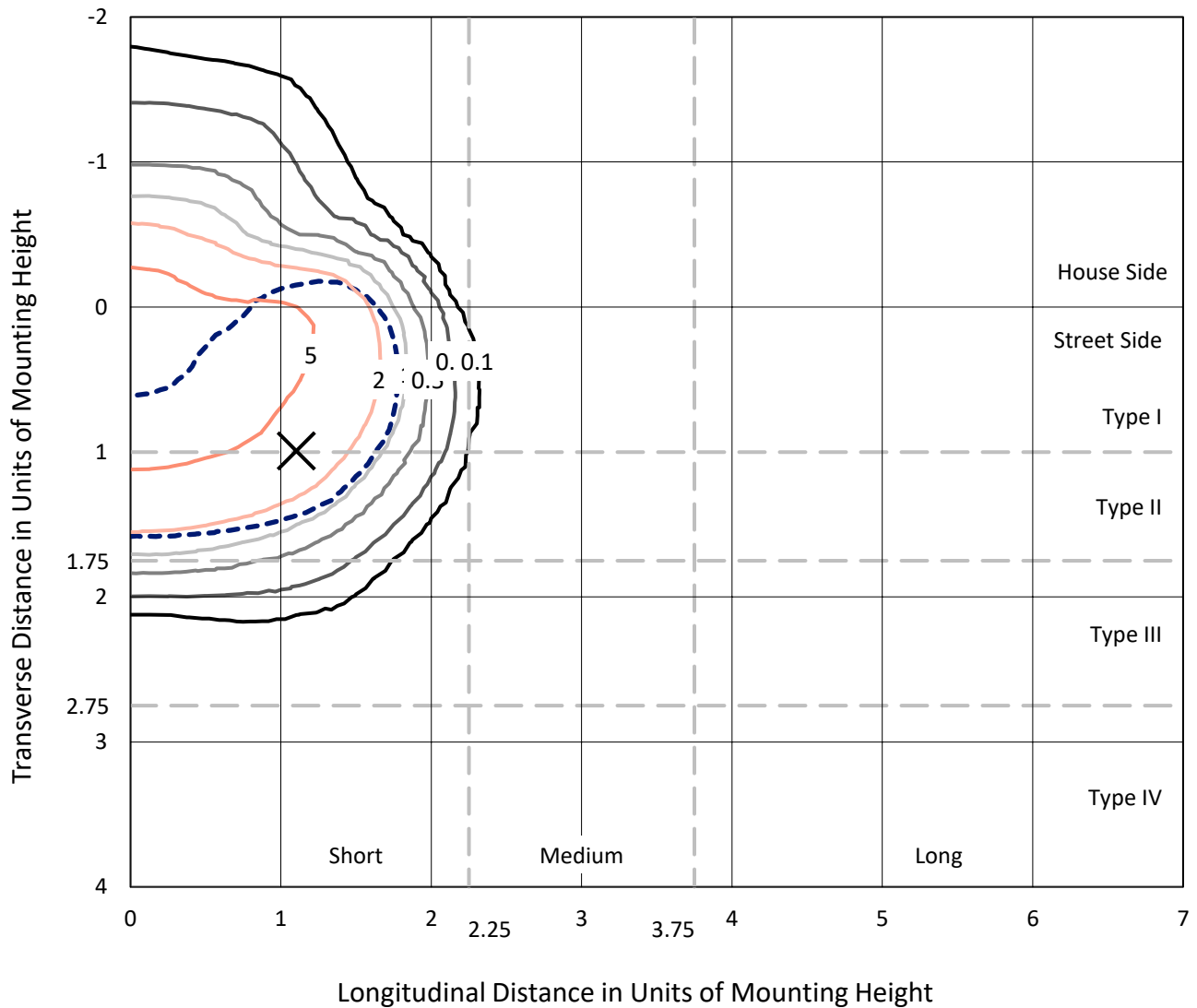
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

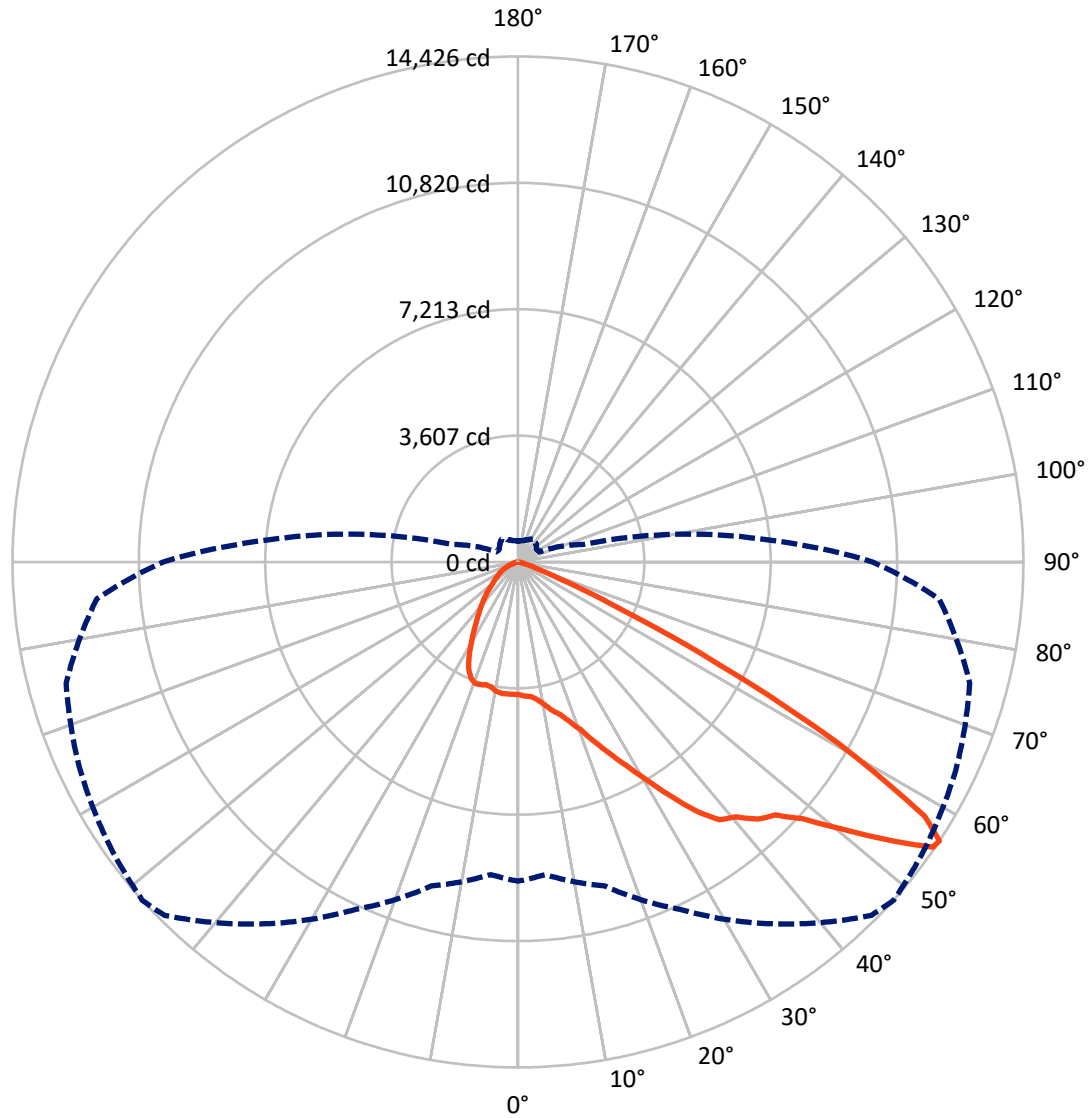
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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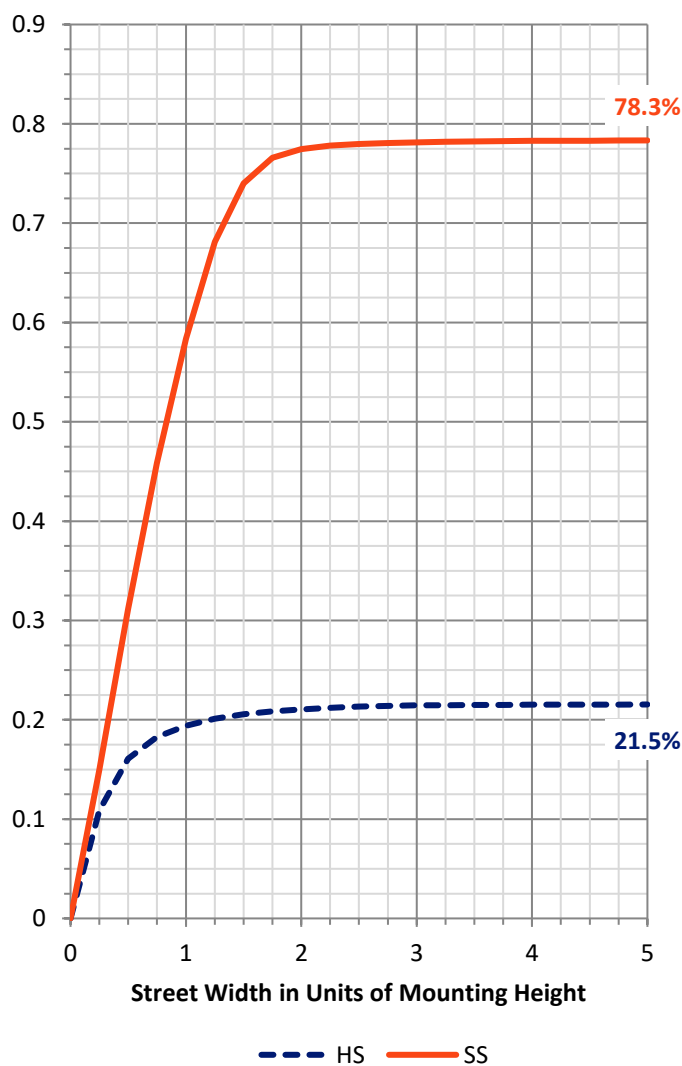
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4304.6	0.0	4304.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	15488.4	0.0	15488.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	19793.0	0.0	19793.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.3	1.9
10°-20°	1176.9	5.9
20°-30°	2134.6	10.8
30°-40°	3353.1	16.9
40°-50°	4891.6	24.7
50°-60°	5893.4	29.8
60°-70°	1725.5	8.7
70°-80°	218.9	1.1
80°-90°	30.7	0.2
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°	19793.0	100.0
0°-180°	19793.0	100.0

**Coefficient of Utilization**

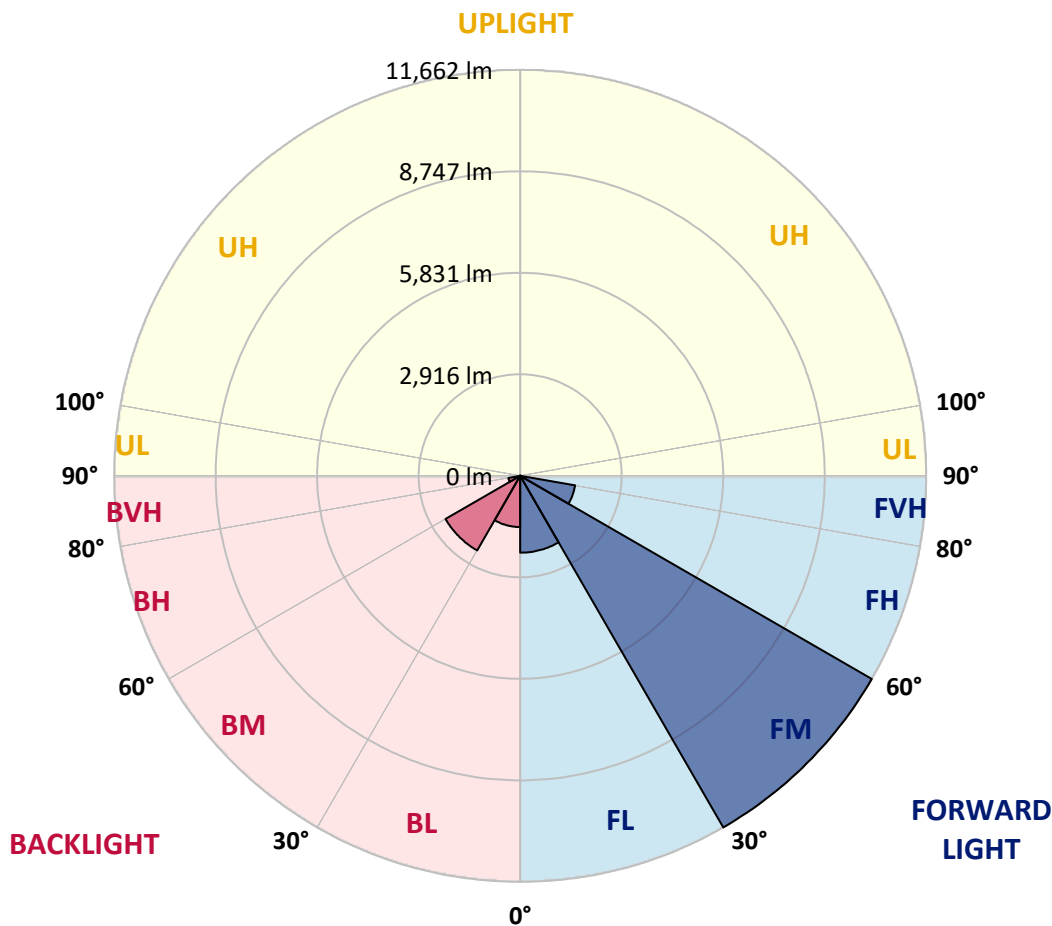


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2208.5	11.2			
FM (30°-60°)	11662.1	58.9			
FH (60°-80°)	1602.4	8.1			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1471.3	7.4	B3/2500		
BM (30°-60°)	2476.0	12.5	B2/2500		
BH (60°-80°)	342.0	1.7	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5
2.5°	3848.9	3830.9	3830.9	3802.1	3834.5	3820.1	3830.9	3794.9	3830.9	3776.9	3820.1
5°	3867.0	3870.6	3856.2	3874.2	3874.2	3895.8	3859.8	3892.2	3910.2	3870.6	3852.5
7.5°	3960.7	3967.9	3964.3	3949.9	3978.7	3975.1	3971.5	3946.3	3953.5	3939.0	3917.4
10°	4144.5	4140.9	4158.9	4122.8	4101.2	4126.4	4133.7	4094.0	4065.2	4054.4	3985.9
12.5°	4411.2	4367.9	4342.7	4306.6	4317.4	4281.4	4346.3	4277.8	4263.4	4198.5	4130.0
15°	4627.4	4620.2	4623.8	4566.1	4501.2	4515.7	4515.7	4479.6	4458.0	4378.7	4281.4
17.5°	5070.7	4919.3	4951.7	4879.7	4825.6	4822.0	4789.6	4796.8	4739.1	4573.3	4425.6
20°	5416.6	5351.8	5301.3	5178.8	5095.9	5121.1	5106.7	5070.7	5052.6	4836.4	4627.4
22.5°	5726.6	5748.2	5665.3	5632.9	5517.5	5528.4	5557.2	5524.8	5387.8	5164.4	4854.4
25°	6162.6	6137.4	6025.7	5986.0	5877.9	5917.6	6029.3	6004.1	5917.6	5513.9	5031.0
27.5°	6678.0	6591.5	6613.1	6432.9	6328.4	6440.1	6573.5	6699.6	6454.6	5924.8	5240.0
30°	7042.0	6951.9	6944.7	6937.5	6912.2	7042.0	7197.0	7312.3	7114.1	6335.6	5586.0
32.5°	7222.2	7243.8	7305.1	7283.4	7503.3	7770.0	7932.1	8097.9	7849.3	7005.9	6043.7
35°	7701.5	7564.5	7701.5	7715.9	7943.0	8508.8	8714.2	9110.6	9049.3	7953.8	6602.3
37.5°	7982.6	7971.8	7989.8	8126.8	8346.6	9045.7	9337.7	9644.0	9528.7	8523.2	7297.9
40°	8447.5	8476.3	8472.7	8577.2	8818.7	9449.4	9568.3	9817.0	9827.8	9312.4	8321.4
42.5°	9193.5	9078.2	9002.5	9110.6	9449.4	9799.0	10036.8	9986.4	10343.1	10271.1	9636.8
45°	9863.8	9932.3	9820.6	10000.8	10123.3	10310.7	10303.5	10411.6	10865.7	11208.1	10627.8
47.5°	10490.9	10534.1	10588.2	10710.7	10977.4	11006.3	10945.0	10898.1	11525.2	11878.4	11395.5
50°	10865.7	10905.3	11157.6	11377.5	11874.8	11939.7	11975.7	11856.8	12282.0	12321.7	12119.9
52.5°	10764.8	10808.0	11161.2	11885.6	12678.5	13273.1	13165.0	12963.2	12937.9	13092.9	12790.2
55°	9871.0	9831.4	10317.9	11445.9	12930.7	14357.9	14372.3	14159.6	13752.4	13647.9	12689.3
56°	9110.6	8955.6	9575.5	10937.8	12606.4	14264.2	14426.3	14199.3	13817.3	13348.8	12065.8
57.5°	7463.6	7611.4	8227.7	9355.7	11485.6	13590.2	13683.9	13629.9	13341.6	12555.9	10617.0
60°	4115.6	4375.1	4919.3	6299.6	8177.2	10429.6	10505.3	10945.0	10999.0	9615.2	7305.1
62.5°	1747.9	1719.1	2284.9	3301.2	4656.2	6296.0	6436.5	6887.0	6969.9	5542.8	3665.1
65°	710.0	749.6	1034.3	1661.4	2461.5	2868.7	3066.9	3214.7	3488.6	2288.5	1351.5
67.5°	468.5	464.9	609.1	947.8	1326.2	1279.4	1279.4	1351.5	1250.5	933.4	583.8
70°	335.2	346.0	436.1	655.9	825.3	612.7	587.4	562.2	637.9	616.3	472.1
72.5°	219.8	234.3	291.9	392.8	428.9	335.2	335.2	403.6	526.2	497.3	385.6
75°	144.2	147.8	180.2	227.0	212.6	173.0	191.0	270.3	382.0	367.6	273.9
77.5°	97.3	100.9	122.5	147.8	118.9	97.3	104.5	136.9	187.4	187.4	144.2
80°	36.0	39.6	50.5	46.9	54.1	68.5	75.7	93.7	111.7	111.7	97.3
82.5°	0.0	3.6	10.8	25.2	39.6	54.1	61.3	72.1	82.9	93.7	90.1
85°	0.0	3.6	10.8	18.0	28.8	32.4	36.0	25.2	21.6	21.6	18.0
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2	3.6	3.6
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°	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5	3780.5
2.5°	3780.5	3776.9	3776.9	3766.1	3787.7	3776.9	3784.1	3780.5	3733.6	3769.7	3744.4
5°	3820.1	3845.3	3805.7	3798.5	3769.7	3780.5	3780.5	3744.4	3776.9	3773.3	3766.1
7.5°	3921.0	3877.8	3834.5	3791.3	3784.1	3773.3	3733.6	3719.2	3744.4	3715.6	3758.8
10°	3964.3	3971.5	3906.6	3848.9	3794.9	3719.2	3665.1	3632.7	3593.1	3636.3	3661.5
12.5°	4162.5	4090.4	3978.7	3888.6	3704.8	3629.1	3575.1	3560.6	3629.1	3643.5	3618.3
15°	4231.0	4220.1	4076.0	3874.2	3683.2	3593.1	3603.9	3575.1	3582.3	3546.2	3553.4
17.5°	4371.5	4249.0	4079.6	3827.3	3679.6	3657.9	3593.1	3477.7	3412.9	3384.0	3409.3
20°	4526.5	4407.5	4162.5	3845.3	3712.0	3654.3	3441.7	3301.2	3167.8	3095.7	3099.3
22.5°	4663.4	4515.7	4126.4	3852.5	3740.8	3503.0	3247.1	2969.6	2803.8	2692.1	2695.7
25°	4829.2	4620.2	4140.9	3867.0	3665.1	3261.5	2893.9	2623.6	2425.4	2349.7	2375.0
27.5°	4922.9	4685.0	4220.1	3899.4	3466.9	2919.1	2522.7	2270.4	2155.1	2119.1	2115.5
30°	5204.0	4829.2	4317.4	3834.5	3135.4	2551.5	2184.0	2029.0	1917.3	1884.8	1892.0
32.5°	5622.1	5092.3	4443.6	3665.1	2796.6	2223.6	1964.1	1848.8	1744.3	1683.0	1675.8
35°	5971.6	5542.8	4576.9	3402.1	2403.8	1971.3	1809.1	1665.0	1506.4	1437.9	1419.9
37.5°	6638.3	6050.9	4548.1	3005.6	2029.0	1783.9	1643.4	1466.8	1329.8	1236.1	1225.3
40°	7524.9	6645.6	4407.5	2522.7	1751.5	1618.1	1466.8	1297.4	1128.0	1048.7	1041.5
42.5°	8602.5	7373.5	4151.7	2032.6	1474.0	1452.4	1315.4	1120.8	969.4	911.8	915.4
45°	9478.2	7997.0	3892.2	1632.6	1268.6	1290.2	1171.3	987.5	883.0	836.1	836.1
47.5°	10256.6	8418.7	3611.1	1347.9	1077.6	1128.0	1023.5	915.4	825.3	789.3	782.0
50°	11006.3	8847.5	3330.0	1092.0	919.0	969.4	958.6	872.1	800.1	756.8	760.4
52.5°	11474.8	8916.0	2973.2	893.8	803.7	861.3	897.4	818.1	738.8	713.6	706.4
55°	10901.7	8033.1	2306.5	735.2	681.1	756.8	825.3	735.2	673.9	630.7	627.1
56°	10130.5	7182.5	1928.1	677.5	645.1	728.0	800.1	702.8	634.3	609.1	591.0
57.5°	8577.2	5877.9	1423.5	601.8	598.2	677.5	760.4	670.3	591.0	569.4	569.4
60°	5348.2	3308.4	861.3	504.5	519.0	601.8	684.7	598.2	526.2	526.2	537.0
62.5°	2436.2	1376.7	522.6	428.9	446.9	519.0	609.1	540.6	500.9	540.6	547.8
65°	828.9	594.6	378.4	342.4	353.2	428.9	522.6	547.8	544.2	569.4	583.8
67.5°	464.9	382.0	317.1	284.7	277.5	317.1	428.9	547.8	526.2	515.4	522.6
70°	392.8	324.3	281.1	252.3	241.5	255.9	331.6	414.4	371.2	360.4	353.2
72.5°	317.1	270.3	245.1	227.0	194.6	165.8	151.4	158.6	176.6	187.4	205.4
75°	223.4	205.4	205.4	183.8	140.6	104.5	82.9	68.5	46.9	32.4	36.0
77.5°	126.1	126.1	129.7	111.7	90.1	68.5	50.5	36.0	18.0	7.2	3.6
80°	86.5	93.7	100.9	90.1	75.7	61.3	43.2	25.2	10.8	0.0	0.0
82.5°	86.5	97.3	104.5	90.1	75.7	57.7	43.2	25.2	10.8	3.6	0.0
85°	18.0	21.6	25.2	28.8	43.2	43.2	32.4	21.6	10.8	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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)