

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: P532195

Luminaire Tested: **GALN-SA7C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532195  
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-SA7C-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA 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: 27241 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

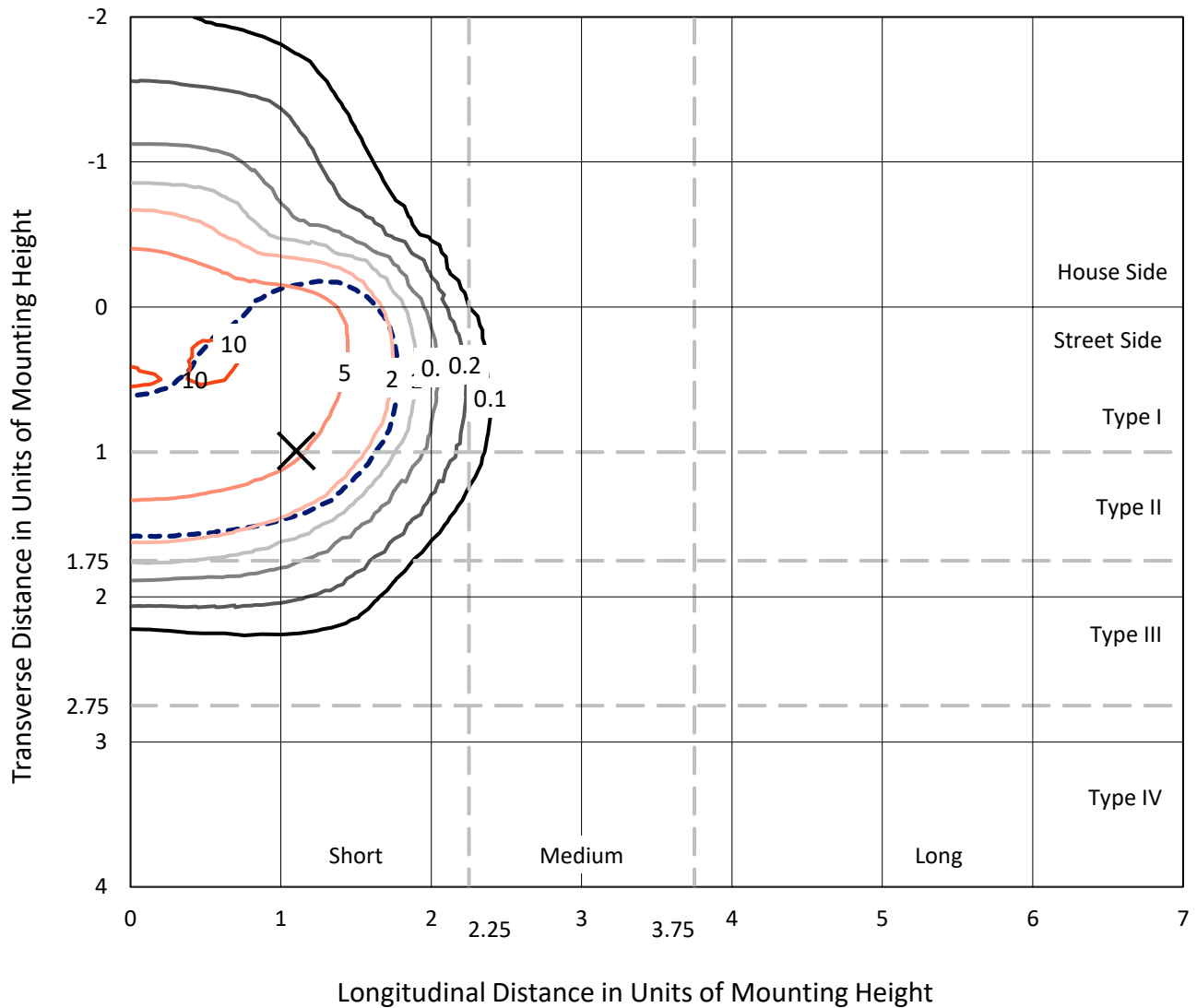
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

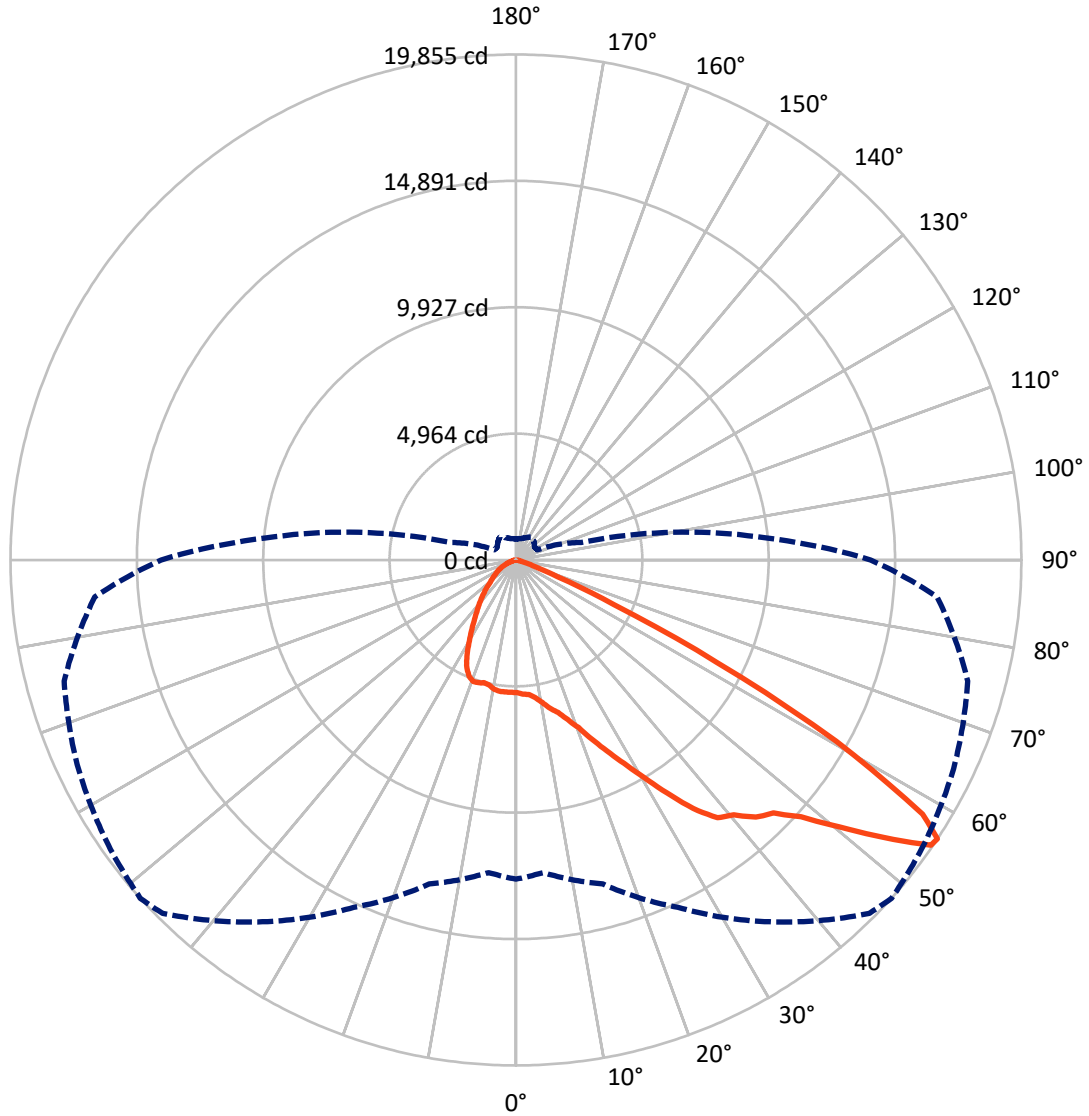
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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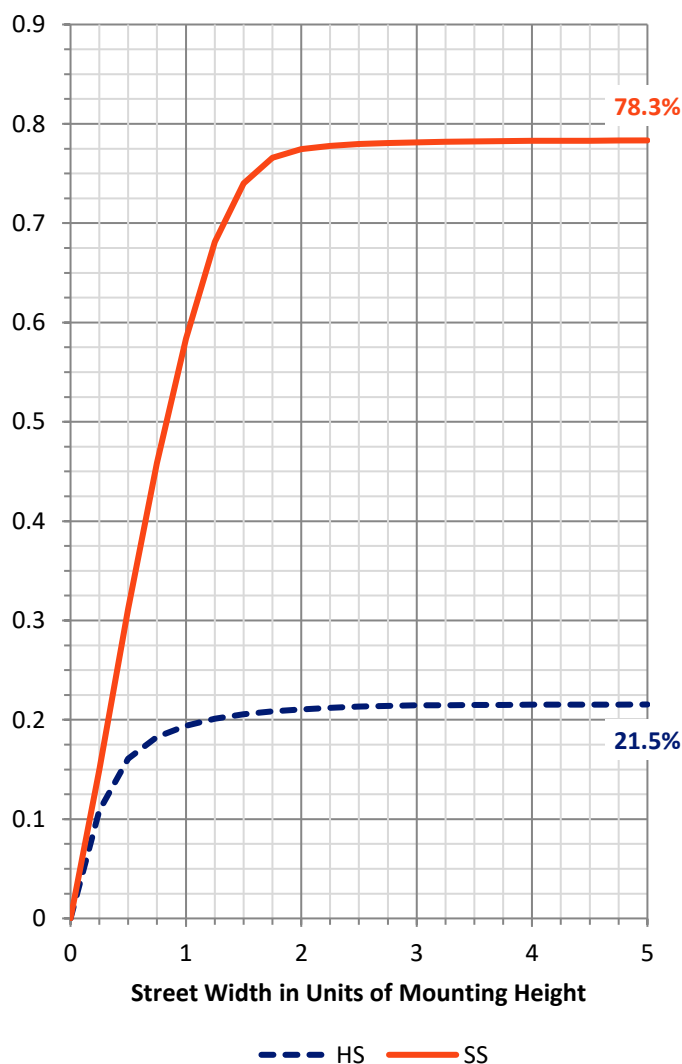
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5924.4	0.0	5924.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	21316.6	0.0	21316.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	27241.0	0.0	27241.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.8	1.9
10°-20°	1619.7	5.9
20°-30°	2937.9	10.8
30°-40°	4614.9	16.9
40°-50°	6732.2	24.7
50°-60°	8111.1	29.8
60°-70°	2374.8	8.7
70°-80°	301.3	1.1
80°-90°	42.3	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°	27241.0	100.0
0°-180°	27241.0	100.0

**Coefficient of Utilization**

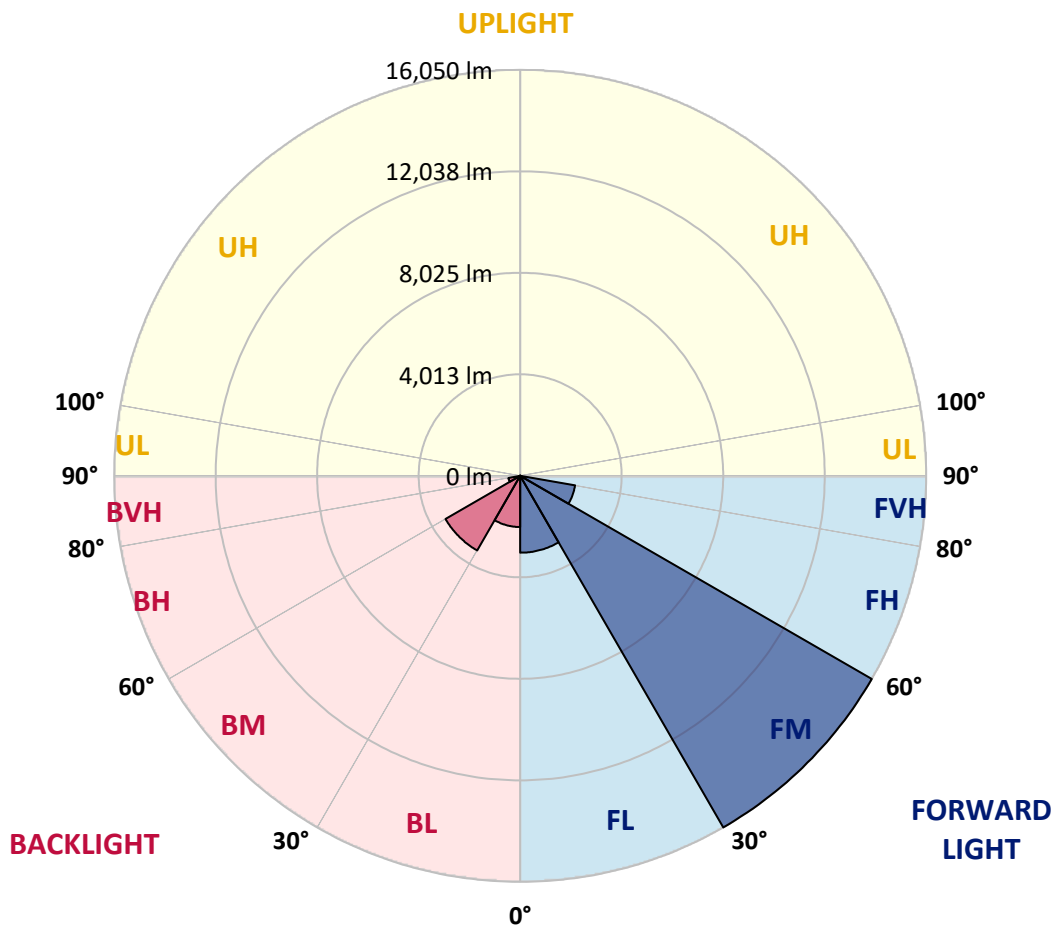


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3039.5	11.2			
FM (30°-60°)	16050.5	58.9			
FH (60°-80°)	2205.4	8.1			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	2024.9	7.4	B3/2500		
BM (30°-60°)	3407.7	12.5	B3/5000		
BH (60°-80°)	470.7	1.7	B1/500		G1/500
BVH (80°-90°)	21.0	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0
2.5°	5297.3	5272.5	5272.5	5232.8	5277.4	5257.6	5272.5	5222.9	5272.5	5198.1	5257.6
5°	5322.1	5327.0	5307.2	5332.0	5332.0	5361.8	5312.2	5356.8	5381.6	5327.0	5302.2
7.5°	5451.0	5461.0	5456.0	5436.2	5475.8	5470.9	5465.9	5431.2	5441.1	5421.3	5391.5
10°	5704.0	5699.0	5723.8	5674.2	5644.5	5679.2	5689.1	5634.6	5594.9	5580.0	5485.8
12.5°	6071.0	6011.5	5976.8	5927.2	5942.1	5892.5	5981.8	5887.5	5867.7	5778.4	5684.2
15°	6368.6	6358.7	6363.7	6284.3	6195.0	6214.9	6214.9	6165.3	6135.5	6026.4	5892.5
17.5°	6978.7	6770.4	6815.0	6715.8	6641.4	6636.5	6591.8	6601.8	6522.4	6294.2	6090.9
20°	7454.9	7365.6	7296.2	7127.5	7013.4	7048.2	7028.3	6978.7	6953.9	6656.3	6368.6
22.5°	7881.4	7911.2	7797.1	7752.5	7593.8	7608.6	7648.3	7603.7	7415.2	7107.7	6681.1
25°	8481.6	8446.9	8293.1	8238.6	8089.8	8144.3	8298.1	8263.4	8144.3	7588.8	6924.2
27.5°	9190.9	9071.8	9101.6	8853.6	8709.8	8863.5	9047.0	9220.6	8883.4	8154.2	7211.8
30°	9691.8	9567.8	9557.9	9548.0	9513.3	9691.8	9905.1	10063.8	9791.0	8719.7	7688.0
32.5°	9939.8	9969.6	10053.9	10024.2	10326.7	10693.8	10917.0	11145.1	10802.9	9642.2	8317.9
35°	10599.5	10411.0	10599.5	10619.4	10931.8	11710.6	11993.3	12538.9	12454.6	10946.7	9086.7
37.5°	10986.4	10971.5	10996.3	11184.8	11487.4	12449.6	12851.4	13273.0	13114.2	11730.4	10044.0
40°	11626.2	11665.9	11661.0	11804.8	12137.1	13005.1	13168.8	13511.0	13525.9	12816.6	11452.6
42.5°	12653.0	12494.2	12390.1	12538.9	13005.1	13486.2	13813.6	13744.2	14235.2	14136.0	13263.0
45°	13575.5	13669.8	13516.0	13764.0	13932.6	14190.6	14180.6	14329.4	14954.4	15425.6	14627.0
47.5°	14438.6	14498.1	14572.5	14741.1	15108.2	15147.8	15063.5	14999.0	15862.1	16348.2	15683.5
50°	14954.4	15009.0	15356.2	15658.7	16343.2	16432.5	16482.1	16318.4	16903.7	16958.2	16680.5
52.5°	14815.5	14875.0	15361.1	16358.1	17449.3	18267.7	18118.9	17841.1	17806.4	18019.7	17603.0
55°	13585.4	13530.9	14200.5	15753.0	17796.5	19760.7	19780.5	19487.9	18927.4	18783.5	17464.2
56°	12538.9	12325.6	13178.7	15053.6	17350.1	19631.7	19854.9	19542.4	19016.7	18371.8	16606.1
57.5°	10272.2	10475.5	11323.7	12876.2	15807.5	18704.2	18833.1	18758.7	18361.9	17280.6	14612.2
60°	5664.3	6021.4	6770.4	8670.1	11254.2	14354.2	14458.4	15063.5	15137.9	13233.3	10053.9
62.5°	2405.6	2365.9	3144.6	4543.4	6408.3	8665.1	8858.6	9478.6	9592.6	7628.5	5044.3
65°	977.1	1031.7	1423.5	2286.6	3387.7	3948.2	4221.0	4424.3	4801.3	3149.6	1860.0
67.5°	644.8	639.8	838.2	1304.5	1825.3	1760.8	1760.8	1860.0	1721.1	1284.6	803.5
70°	461.3	476.2	600.2	902.7	1135.8	843.2	808.5	773.8	877.9	848.2	649.8
72.5°	302.6	322.4	401.8	540.6	590.2	461.3	461.3	555.5	724.2	684.5	530.7
75°	198.4	203.4	248.0	312.5	292.6	238.1	262.9	372.0	525.8	505.9	377.0
77.5°	133.9	138.9	168.6	203.4	163.7	133.9	143.8	188.5	257.9	257.9	198.4
80°	49.6	54.6	69.4	64.5	74.4	94.2	104.2	129.0	153.8	153.8	133.9
82.5°	0.0	5.0	14.9	34.7	54.6	74.4	84.3	99.2	114.1	129.0	124.0
85°	0.0	5.0	14.9	24.8	39.7	44.6	49.6	34.7	29.8	29.8	24.8
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	9.9	5.0	5.0
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°	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0	5203.0
2.5°	5203.0	5198.1	5198.1	5183.2	5213.0	5198.1	5208.0	5203.0	5138.6	5188.2	5153.4
5°	5257.6	5292.3	5237.8	5227.8	5188.2	5203.0	5203.0	5153.4	5198.1	5193.1	5183.2
7.5°	5396.5	5337.0	5277.4	5217.9	5208.0	5193.1	5138.6	5118.7	5153.4	5113.8	5173.3
10°	5456.0	5465.9	5376.6	5297.3	5222.9	5118.7	5044.3	4999.7	4945.1	5004.6	5039.4
12.5°	5728.8	5629.6	5475.8	5351.8	5098.9	4994.7	4920.3	4900.5	4994.7	5014.6	4979.8
15°	5823.0	5808.2	5609.8	5332.0	5069.1	4945.1	4960.0	4920.3	4930.2	4880.6	4890.6
17.5°	6016.5	5847.8	5614.7	5267.5	5064.2	5034.4	4945.1	4786.4	4697.1	4657.4	4692.2
20°	6229.8	6066.1	5728.8	5292.3	5108.8	5029.4	4736.8	4543.4	4359.8	4260.6	4265.6
22.5°	6418.2	6214.9	5679.2	5302.2	5148.5	4821.1	4469.0	4087.0	3858.9	3705.1	3710.1
25°	6646.4	6358.7	5699.0	5322.1	5044.3	4488.8	3982.9	3610.9	3338.1	3233.9	3268.6
27.5°	6775.4	6448.0	5808.2	5366.7	4771.5	4017.6	3472.0	3124.8	2966.1	2916.5	2911.5
30°	7162.2	6646.4	5942.1	5277.4	4315.2	3511.7	3005.8	2792.5	2638.7	2594.1	2604.0
32.5°	7737.6	7008.5	6115.7	5044.3	3849.0	3060.3	2703.2	2544.5	2400.6	2316.3	2306.4
35°	8218.7	7628.5	6299.2	4682.2	3308.3	2713.1	2489.9	2291.5	2073.3	1979.0	1954.2
37.5°	9136.3	8327.8	6259.5	4136.6	2792.5	2455.2	2261.8	2018.7	1830.2	1701.3	1686.4
40°	10356.5	9146.2	6066.1	3472.0	2410.6	2227.0	2018.7	1785.6	1552.5	1443.4	1433.4
42.5°	11839.5	10148.2	5713.9	2797.4	2028.6	1998.9	1810.4	1542.6	1334.2	1254.9	1259.8
45°	13044.8	11006.2	5356.8	2246.9	1745.9	1775.7	1612.0	1359.0	1215.2	1150.7	1150.7
47.5°	14116.2	11586.6	4969.9	1855.0	1483.0	1552.5	1408.6	1259.8	1135.8	1086.2	1076.3
50°	15147.8	12176.8	4583.0	1502.9	1264.8	1334.2	1319.4	1200.3	1101.1	1041.6	1046.6
52.5°	15792.6	12271.0	4092.0	1230.1	1106.1	1185.4	1235.0	1125.9	1016.8	982.1	972.2
55°	15004.0	11055.8	3174.4	1011.8	937.4	1041.6	1135.8	1011.8	927.5	868.0	863.0
56°	13942.6	9885.3	2653.6	932.5	887.8	1001.9	1101.1	967.2	873.0	838.2	813.4
57.5°	11804.8	8089.8	1959.2	828.3	823.4	932.5	1046.6	922.6	813.4	783.7	783.7
60°	7360.6	4553.3	1185.4	694.4	714.2	828.3	942.4	823.4	724.2	724.2	739.0
62.5°	3353.0	1894.7	719.2	590.2	615.0	714.2	838.2	744.0	689.4	744.0	753.9
65°	1140.8	818.4	520.8	471.2	486.1	590.2	719.2	753.9	749.0	783.7	803.5
67.5°	639.8	525.8	436.5	391.8	381.9	436.5	590.2	753.9	724.2	709.3	719.2
70°	540.6	446.4	386.9	347.2	332.3	352.2	456.3	570.4	510.9	496.0	486.1
72.5°	436.5	372.0	337.3	312.5	267.8	228.2	208.3	218.2	243.0	257.9	282.7
75°	307.5	282.7	282.7	253.0	193.4	143.8	114.1	94.2	64.5	44.6	49.6
77.5°	173.6	173.6	178.6	153.8	124.0	94.2	69.4	49.6	24.8	9.9	5.0
80°	119.0	129.0	138.9	124.0	104.2	84.3	59.5	34.7	14.9	0.0	0.0
82.5°	119.0	133.9	143.8	124.0	104.2	79.4	59.5	34.7	14.9	5.0	0.0
85°	24.8	29.8	34.7	39.7	59.5	59.5	44.6	29.8	14.9	5.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	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)