

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: P531285

Luminaire Tested: **GALN-SA6C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531285  
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-SA6C-740-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 24896 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

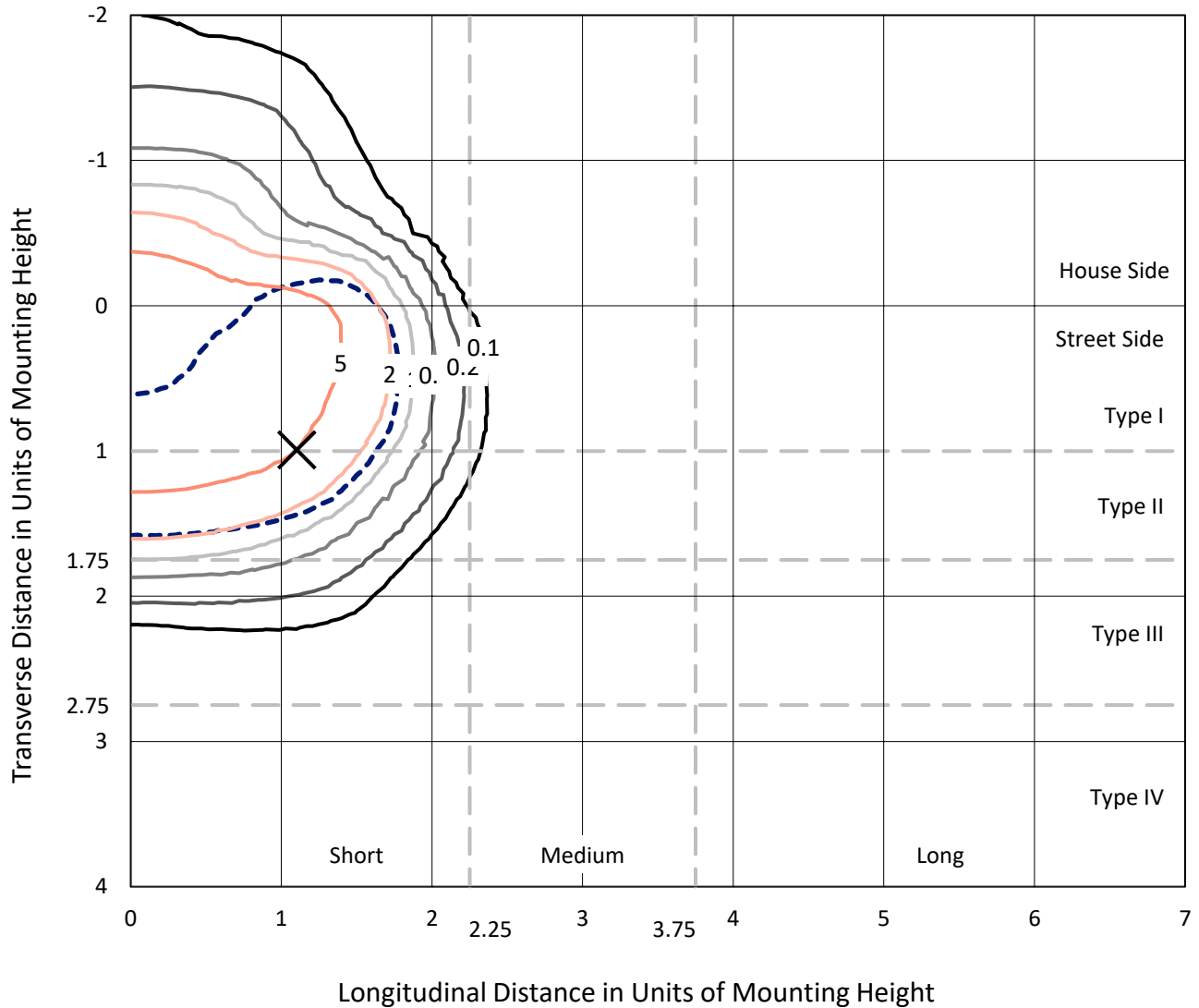
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

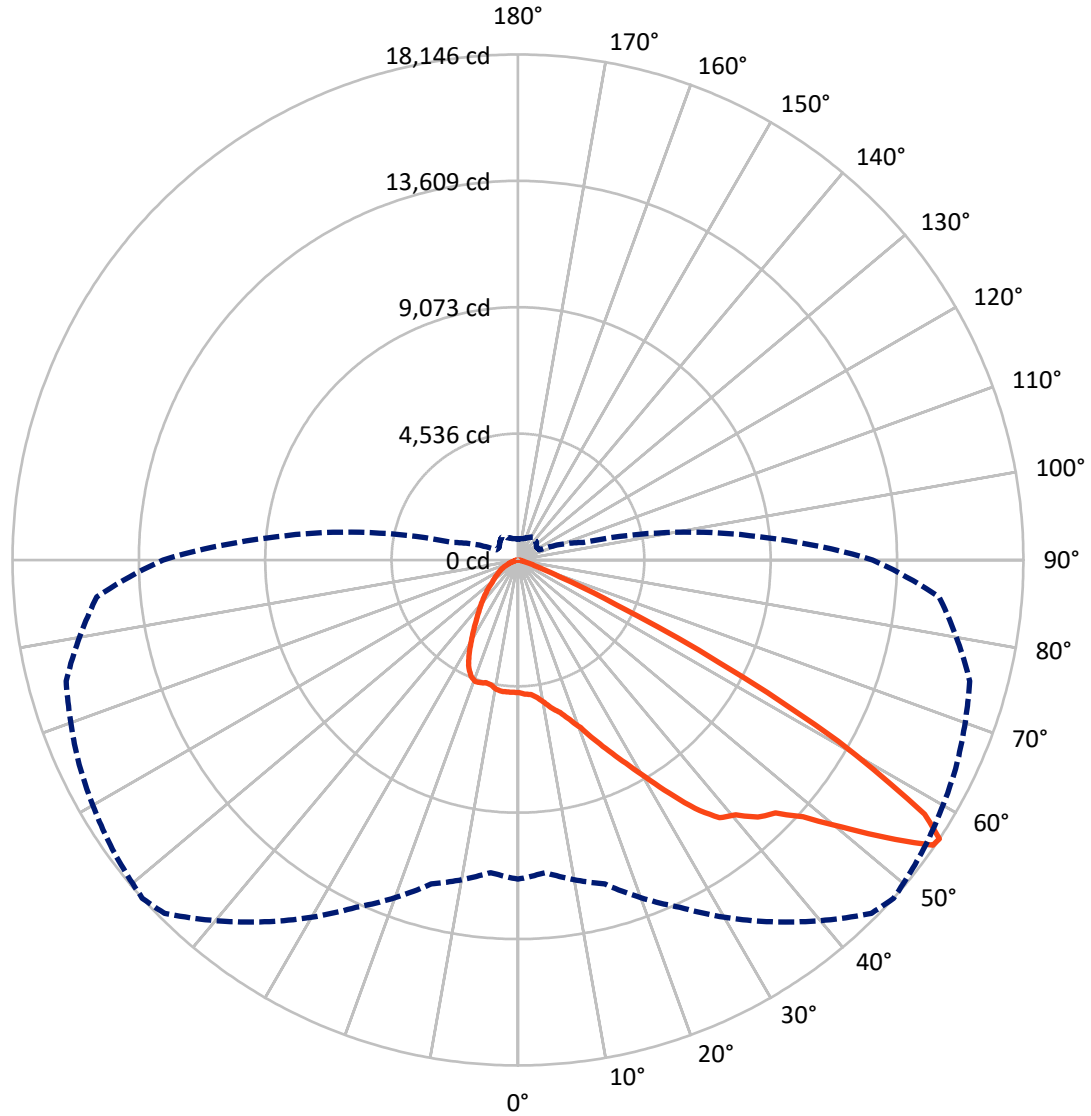
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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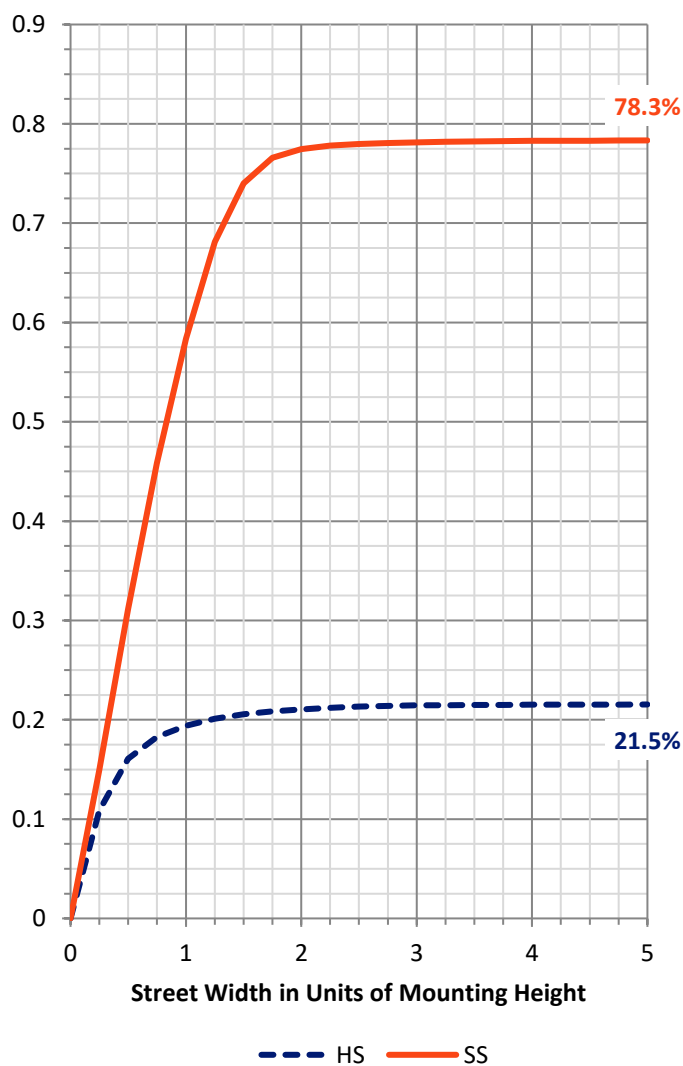
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5414.4	0.0	5414.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	19481.6	0.0	19481.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	24896.0	0.0	24896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.2	1.9
10°-20°	1480.3	5.9
20°-30°	2685.0	10.8
30°-40°	4217.6	16.9
40°-50°	6152.7	24.7
50°-60°	7412.8	29.8
60°-70°	2170.4	8.7
70°-80°	275.3	1.1
80°-90°	38.6	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°	24896.0	100.0
0°-180°	24896.0	100.0

**Coefficient of Utilization**

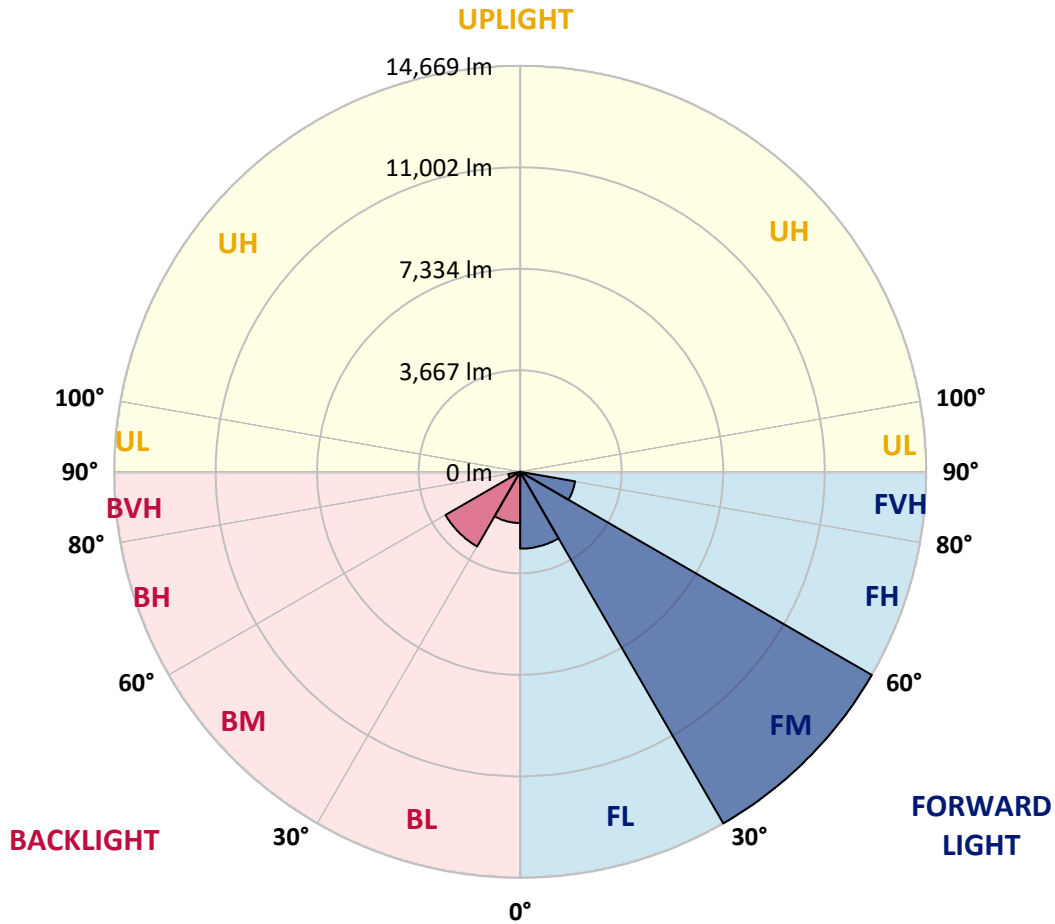


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.9	11.2			
FM (30°-60°)	14668.8	58.9			
FH (60°-80°)	2015.5	8.1			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1850.6	7.4	B3/2500		
BM (30°-60°)	3114.3	12.5	B3/5000		
BH (60°-80°)	430.2	1.7	B1/500		G1/500
BVH (80°-90°)	19.2	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°	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1
2.5°	4841.3	4818.6	4818.6	4782.3	4823.1	4805.0	4818.6	4773.3	4818.6	4750.6	4805.0
5°	4863.9	4868.5	4850.3	4873.0	4873.0	4900.2	4854.9	4895.7	4918.3	4868.5	4845.8
7.5°	4981.8	4990.9	4986.3	4968.2	5004.5	4999.9	4995.4	4963.7	4972.7	4954.6	4927.4
10°	5213.0	5208.4	5231.1	5185.8	5158.6	5190.3	5199.4	5149.5	5113.3	5099.7	5013.5
12.5°	5548.4	5494.0	5462.3	5417.0	5430.6	5385.2	5466.8	5380.7	5362.6	5281.0	5194.9
15°	5820.4	5811.3	5815.9	5743.3	5661.8	5679.9	5679.9	5634.6	5607.4	5507.6	5385.2
17.5°	6378.0	6187.6	6228.4	6137.7	6069.7	6065.2	6024.4	6033.5	5960.9	5752.4	5566.6
20°	6813.1	6731.5	6668.1	6514.0	6409.7	6441.4	6423.3	6378.0	6355.3	6083.3	5820.4
22.5°	7203.0	7230.2	7125.9	7085.1	6940.1	6953.7	6989.9	6949.1	6776.9	6495.8	6106.0
25°	7751.5	7719.7	7579.2	7529.4	7393.4	7443.2	7583.8	7552.0	7443.2	6935.5	6328.1
27.5°	8399.7	8290.9	8318.1	8091.5	7960.0	8100.5	8268.2	8426.9	8118.7	7452.3	6591.0
30°	8857.5	8744.2	8735.1	8726.1	8694.3	8857.5	9052.5	9197.5	8948.2	7969.1	7026.2
32.5°	9084.2	9111.4	9188.4	9161.3	9437.8	9773.2	9977.2	10185.7	9872.9	8812.2	7601.9
35°	9687.1	9514.8	9687.1	9705.2	9990.8	10702.5	10960.9	11459.5	11382.4	10004.4	8304.5
37.5°	10040.7	10027.1	10049.7	10222.0	10498.5	11377.9	11745.1	12130.4	11985.3	10720.6	9179.4
40°	10625.4	10661.7	10657.1	10788.6	11092.3	11885.6	12035.2	12348.0	12361.6	11713.3	10466.8
42.5°	11563.8	11418.7	11323.5	11459.5	11885.6	12325.3	12624.5	12561.0	13009.8	12919.1	12121.3
45°	12406.9	12493.0	12352.5	12579.2	12733.3	12969.0	12959.9	13095.9	13667.1	14097.7	13367.9
47.5°	13195.6	13250.0	13318.0	13472.2	13807.6	13843.9	13766.8	13707.9	14496.6	14940.9	14333.4
50°	13667.1	13716.9	14034.3	14310.8	14936.3	15017.9	15063.3	14913.7	15448.6	15498.4	15244.6
52.5°	13540.2	13594.6	14038.8	14949.9	15947.2	16695.1	16559.2	16305.3	16273.6	16468.5	16087.7
55°	12416.0	12366.1	12978.1	14396.9	16264.5	18059.6	18077.7	17810.3	17298.0	17166.6	15960.8
56°	11459.5	11264.6	12044.3	13757.7	15856.5	17941.7	18145.7	17860.1	17379.6	16790.3	15176.6
57.5°	9387.9	9573.8	10348.9	11767.7	14446.8	17094.1	17211.9	17143.9	16781.3	15793.1	13354.3
60°	5176.7	5503.1	6187.6	7923.7	10285.4	13118.6	13213.8	13766.8	13834.8	12094.1	9188.4
62.5°	2198.5	2162.3	2873.9	4152.3	5856.7	7919.2	8096.0	8662.6	8766.9	6971.8	4610.1
65°	893.0	942.9	1301.0	2089.7	3096.1	3608.3	3857.6	4043.5	4388.0	2878.5	1699.9
67.5°	589.3	584.8	766.1	1192.2	1668.2	1609.2	1609.2	1699.9	1573.0	1174.1	734.4
70°	421.6	435.2	548.5	825.0	1038.1	770.6	738.9	707.2	802.3	775.1	593.8
72.5°	276.5	294.6	367.2	494.1	539.4	421.6	421.6	507.7	661.8	625.6	485.0
75°	181.3	185.9	226.7	285.6	267.4	217.6	240.3	340.0	480.5	462.4	344.5
77.5°	122.4	126.9	154.1	185.9	149.6	122.4	131.5	172.3	235.7	235.7	181.3
80°	45.3	49.9	63.5	58.9	68.0	86.1	95.2	117.9	140.5	140.5	122.4
82.5°	0.0	4.5	13.6	31.7	49.9	68.0	77.1	90.7	104.3	117.9	113.3
85°	0.0	4.5	13.6	22.7	36.3	40.8	45.3	31.7	27.2	27.2	22.7
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.1	4.5	4.5
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°	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1	4755.1
2.5°	4755.1	4750.6	4750.6	4737.0	4764.2	4750.6	4759.7	4755.1	4696.2	4741.5	4709.8
5°	4805.0	4836.7	4786.9	4777.8	4741.5	4755.1	4755.1	4709.8	4750.6	4746.1	4737.0
7.5°	4931.9	4877.5	4823.1	4768.7	4759.7	4746.1	4696.2	4678.1	4709.8	4673.6	4727.9
10°	4986.3	4995.4	4913.8	4841.3	4773.3	4678.1	4610.1	4569.3	4519.4	4573.8	4605.6
12.5°	5235.6	5145.0	5004.5	4891.1	4660.0	4564.8	4496.8	4478.6	4564.8	4582.9	4551.2
15°	5321.8	5308.2	5126.9	4873.0	4632.8	4519.4	4533.0	4496.8	4505.8	4460.5	4469.6
17.5°	5498.6	5344.4	5131.4	4814.1	4628.2	4601.0	4519.4	4374.4	4292.8	4256.5	4288.2
20°	5693.5	5543.9	5235.6	4836.7	4669.0	4596.5	4329.0	4152.3	3984.5	3893.9	3898.4
22.5°	5865.7	5679.9	5190.3	4845.8	4705.3	4406.1	4084.3	3735.2	3526.7	3386.2	3390.7
25°	6074.3	5811.3	5208.4	4863.9	4610.1	4102.4	3640.0	3300.0	3050.7	2955.5	2987.3
27.5°	6192.1	5892.9	5308.2	4904.7	4360.8	3671.8	3173.1	2855.8	2710.8	2665.4	2660.9
30°	6545.7	6074.3	5430.6	4823.1	3943.7	3209.4	2747.0	2552.1	2411.6	2370.8	2379.8
32.5°	7071.5	6405.2	5589.2	4610.1	3517.6	2796.9	2470.5	2325.4	2194.0	2116.9	2107.9
35°	7511.2	6971.8	5756.9	4279.2	3023.5	2479.6	2275.6	2094.3	1894.8	1808.7	1786.0
37.5°	8349.8	7611.0	5720.7	3780.5	2552.1	2243.8	2067.1	1844.9	1672.7	1554.8	1541.2
40°	9465.0	8358.9	5543.9	3173.1	2203.1	2035.3	1844.9	1631.9	1418.8	1319.1	1310.0
42.5°	10820.3	9274.6	5222.0	2556.6	1854.0	1826.8	1654.6	1409.8	1219.4	1146.9	1151.4
45°	11921.9	10058.8	4895.7	2053.5	1595.6	1622.8	1473.2	1242.0	1110.6	1051.7	1051.7
47.5°	12901.0	10589.2	4542.1	1695.4	1355.4	1418.8	1287.4	1151.4	1038.1	992.7	983.7
50°	13843.9	11128.6	4188.5	1373.5	1155.9	1219.4	1205.8	1097.0	1006.3	951.9	956.5
52.5°	14433.2	11214.7	3739.7	1124.2	1010.9	1083.4	1128.7	1029.0	929.3	897.5	888.5
55°	13712.4	10104.1	2901.1	924.7	856.7	951.9	1038.1	924.7	847.7	793.3	788.7
56°	12742.3	9034.3	2425.2	852.2	811.4	915.7	1006.3	883.9	797.8	766.1	743.4
57.5°	10788.6	7393.4	1790.5	757.0	752.5	852.2	956.5	843.1	743.4	716.2	716.2
60°	6727.0	4161.3	1083.4	634.6	652.8	757.0	861.3	752.5	661.8	661.8	675.4
62.5°	3064.3	1731.6	657.3	539.4	562.1	652.8	766.1	680.0	630.1	680.0	689.0
65°	1042.6	747.9	476.0	430.6	444.2	539.4	657.3	689.0	684.5	716.2	734.4
67.5°	584.8	480.5	398.9	358.1	349.0	398.9	539.4	689.0	661.8	648.2	657.3
70°	494.1	408.0	353.6	317.3	303.7	321.8	417.0	521.3	466.9	453.3	444.2
72.5°	398.9	340.0	308.2	285.6	244.8	208.5	190.4	199.5	222.1	235.7	258.4
75°	281.0	258.4	258.4	231.2	176.8	131.5	104.3	86.1	58.9	40.8	45.3
77.5°	158.7	158.7	163.2	140.5	113.3	86.1	63.5	45.3	22.7	9.1	4.5
80°	108.8	117.9	126.9	113.3	95.2	77.1	54.4	31.7	13.6	0.0	0.0
82.5°	108.8	122.4	131.5	113.3	95.2	72.5	54.4	31.7	13.6	4.5	0.0
85°	22.7	27.2	31.7	36.3	54.4	54.4	40.8	27.2	13.6	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)