

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: P531467

Luminaire Tested: **GALN-SA6D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531467  
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-SA6D-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 24948 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

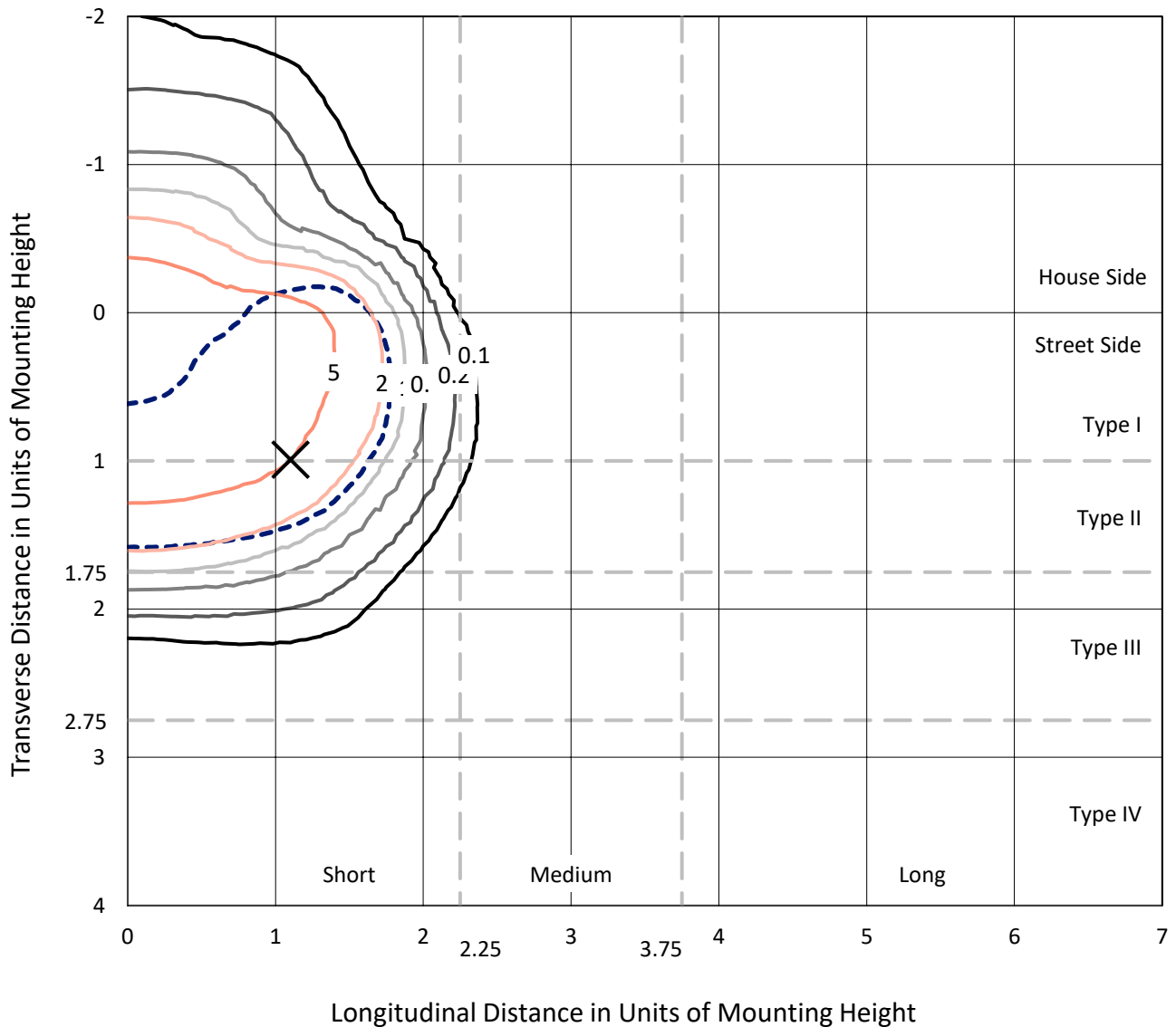
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

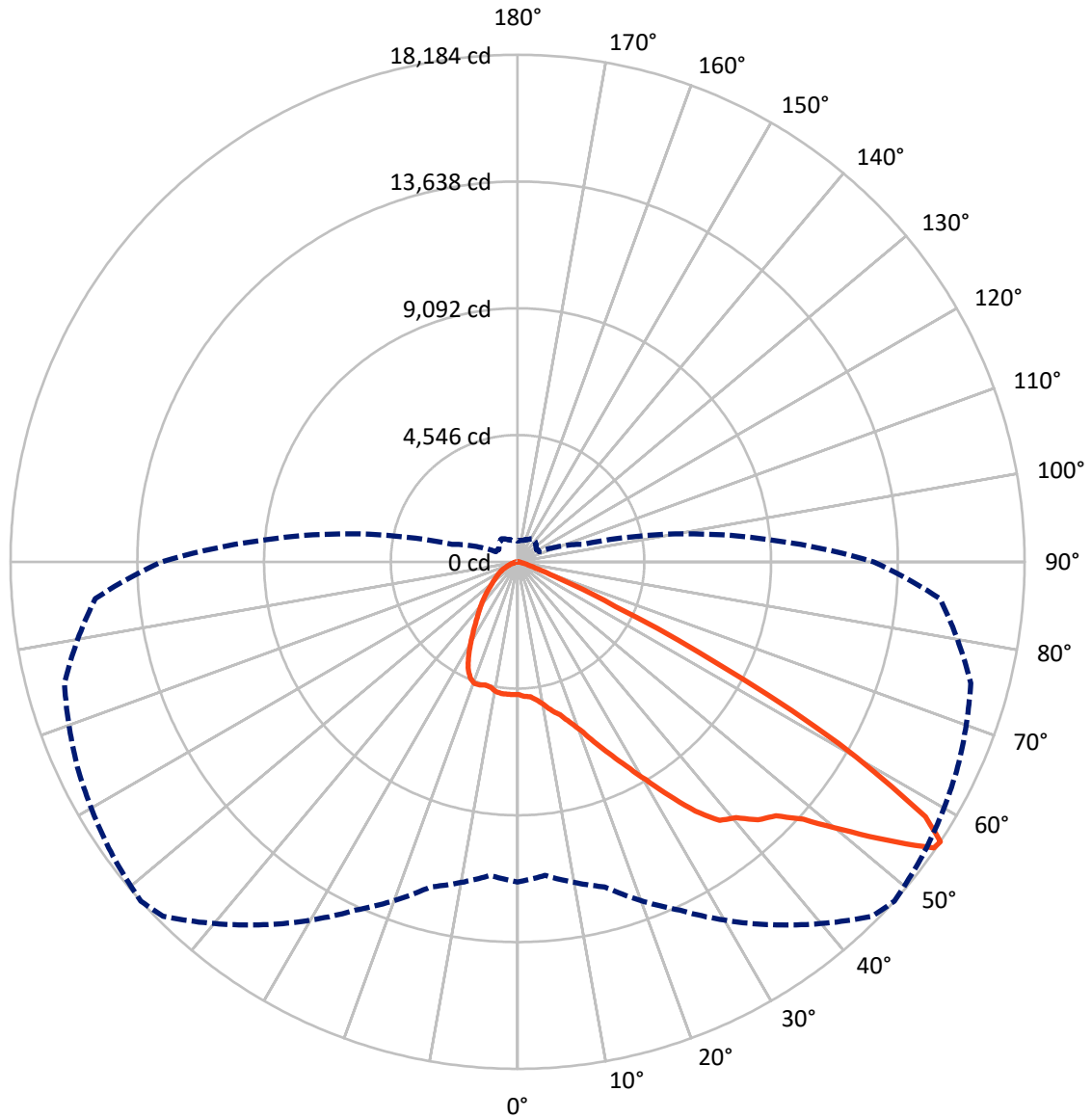
✕ Max cd  
 - - - 1/2 Max cd



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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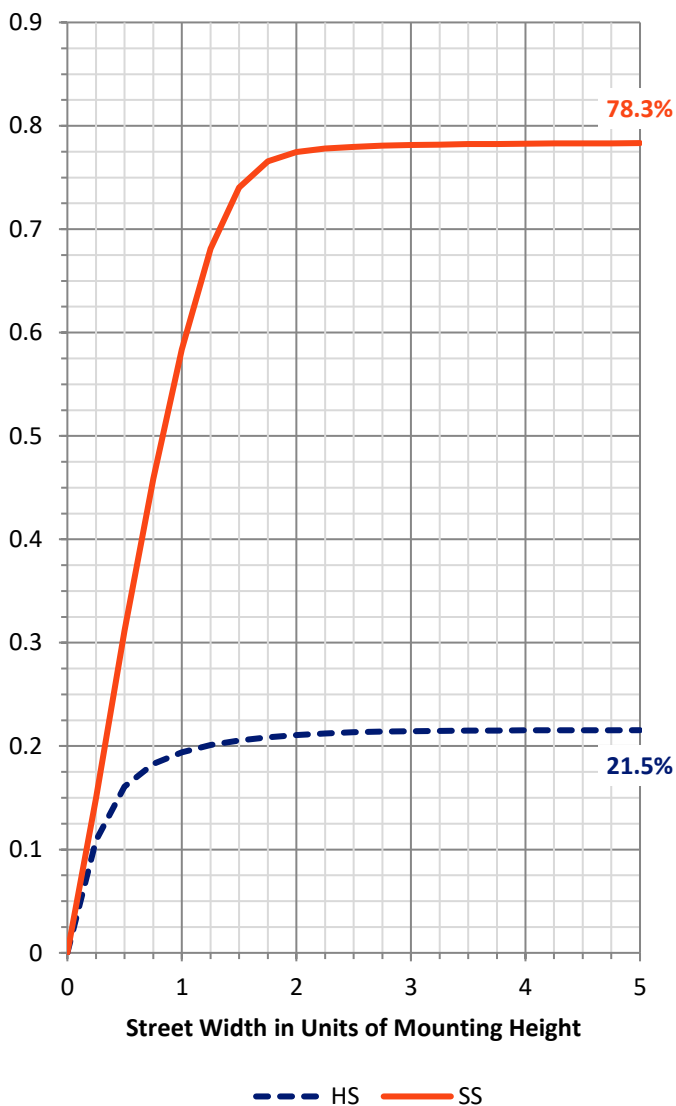
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5425.7	0.0	5425.7
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	19522.3	0.0	19522.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	24948.0	0.0	24948.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.2	1.9
10°-20°	1483.4	5.9
20°-30°	2690.6	10.8
30°-40°	4226.4	16.9
40°-50°	6165.6	24.7
50°-60°	7428.3	29.8
60°-70°	2174.9	8.7
70°-80°	275.9	1.1
80°-90°	38.7	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°	24948.0	100.0
0°-180°	24948.0	100.0

**Coefficient of Utilization**



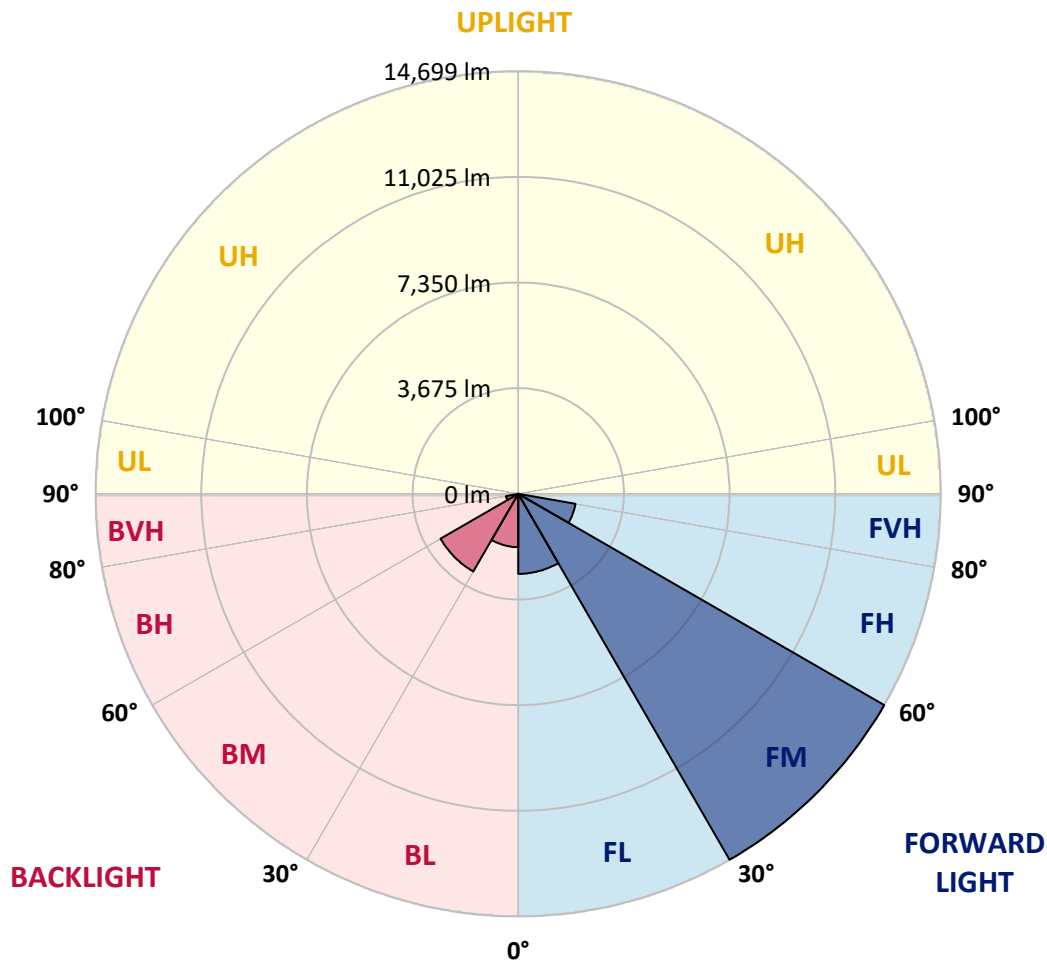
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2783.7	11.2			
FM (30°-60°)	14699.4	58.9			
FH (60°-80°)	2019.7	8.1			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1854.5	7.4	B3/2500		
BM (30°-60°)	3120.8	12.5	B3/5000		
BH (60°-80°)	431.1	1.7	B1/500		G1/500
BVH (80°-90°)	19.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4851.4	4828.7	4828.7	4792.3	4833.2	4815.0	4828.7	4783.2	4828.7	4760.5	4815.0
5°	4874.1	4878.6	4860.5	4883.2	4883.2	4910.4	4865.0	4905.9	4928.6	4878.6	4855.9
7.5°	4992.2	5001.3	4996.7	4978.6	5014.9	5010.4	5005.8	4974.0	4983.1	4964.9	4937.7
10°	5223.9	5219.3	5242.0	5196.6	5169.4	5201.2	5210.2	5160.3	5123.9	5110.3	5024.0
12.5°	5560.0	5505.5	5473.7	5428.3	5441.9	5396.5	5478.3	5391.9	5373.8	5292.0	5205.7
15°	5832.6	5823.5	5828.0	5755.3	5673.6	5691.7	5691.7	5646.3	5619.1	5519.1	5396.5
17.5°	6391.3	6200.5	6241.4	6150.5	6082.4	6077.9	6037.0	6046.1	5973.4	5764.4	5578.2
20°	6827.4	6745.6	6682.0	6527.6	6423.1	6454.9	6436.7	6391.3	6368.6	6096.0	5832.6
22.5°	7218.0	7245.3	7140.8	7099.9	6954.6	6968.2	7004.5	6963.6	6791.0	6509.4	6118.7
25°	7767.7	7735.9	7595.1	7545.1	7408.8	7458.8	7599.6	7567.8	7458.8	6950.0	6341.3
27.5°	8417.2	8308.2	8335.5	8108.4	7976.6	8117.4	8285.5	8444.5	8135.6	7467.9	6604.8
30°	8876.0	8762.5	8753.4	8744.3	8712.5	8876.0	9071.4	9216.7	8966.9	7985.7	7040.9
32.5°	9103.2	9130.4	9207.6	9180.4	9457.5	9793.6	9998.0	10207.0	9893.6	8830.6	7617.8
35°	9707.3	9534.7	9707.3	9725.5	10011.7	10724.8	10983.8	11483.4	11406.2	10025.3	8321.9
37.5°	10061.6	10048.0	10070.7	10243.3	10520.4	11401.7	11769.6	12155.7	12010.4	10743.0	9198.6
40°	10647.6	10684.0	10679.4	10811.1	11115.5	11910.4	12060.3	12373.8	12387.4	11737.8	10488.6
42.5°	11587.9	11442.5	11347.2	11483.4	11910.4	12351.0	12650.9	12587.3	13037.0	12946.1	12146.6
45°	12432.8	12519.1	12378.3	12605.4	12759.9	12996.1	12987.0	13123.3	13695.6	14127.2	13395.8
47.5°	13223.2	13277.7	13345.9	13500.3	13836.4	13872.8	13795.6	13736.5	14526.9	14972.1	14363.4
50°	13695.6	13745.6	14063.6	14340.7	14967.5	15049.3	15094.7	14944.8	15480.8	15530.8	15276.4
52.5°	13568.4	13622.9	14068.1	14981.2	15980.5	16730.0	16593.7	16339.4	16307.6	16502.9	16121.3
55°	12441.9	12391.9	13005.2	14427.0	16298.5	18097.3	18115.5	17847.5	17334.2	17202.4	15994.1
56°	11483.4	11288.1	12069.4	13786.5	15889.7	17979.2	18183.6	17897.4	17415.9	16825.4	15208.3
57.5°	9407.5	9593.8	10370.5	11792.3	14476.9	17129.8	17247.9	17179.7	16816.3	15826.1	13382.2
60°	5187.5	5514.6	6200.5	7940.3	10306.9	13146.0	13241.4	13795.6	13863.7	12119.4	9207.6
62.5°	2203.1	2166.8	2879.9	4160.9	5868.9	7935.7	8112.9	8680.7	8785.2	6986.4	4619.7
65°	894.9	944.8	1303.7	2094.1	3102.5	3615.8	3865.7	4051.9	4397.1	2884.5	1703.4
67.5°	590.5	586.0	767.7	1194.7	1671.6	1612.6	1612.6	1703.4	1576.2	1176.5	735.9
70°	422.5	436.1	549.6	826.7	1040.2	772.2	740.4	708.6	804.0	776.8	595.1
72.5°	277.1	295.3	367.9	495.1	540.6	422.5	422.5	508.8	663.2	626.9	486.0
75°	181.7	186.2	227.1	286.2	268.0	218.0	240.8	340.7	481.5	463.3	345.2
77.5°	122.6	127.2	154.4	186.2	149.9	122.6	131.7	172.6	236.2	236.2	181.7
80°	45.4	50.0	63.6	59.1	68.1	86.3	95.4	118.1	140.8	140.8	122.6
82.5°	0.0	4.5	13.6	31.8	50.0	68.1	77.2	90.8	104.5	118.1	113.6
85°	0.0	4.5	13.6	22.7	36.3	40.9	45.4	31.8	27.3	27.3	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°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4765.1	4760.5	4760.5	4746.9	4774.2	4760.5	4769.6	4765.1	4706.0	4751.5	4719.7
5°	4815.0	4846.8	4796.9	4787.8	4751.5	4765.1	4765.1	4719.7	4760.5	4756.0	4746.9
7.5°	4942.2	4887.7	4833.2	4778.7	4769.6	4756.0	4706.0	4687.9	4719.7	4683.3	4737.8
10°	4996.7	5005.8	4924.1	4851.4	4783.2	4687.9	4619.7	4578.8	4528.9	4583.4	4615.2
12.5°	5246.6	5155.7	5014.9	4901.4	4669.7	4574.3	4506.2	4488.0	4574.3	4592.5	4560.7
15°	5332.9	5319.3	5137.6	4883.2	4642.4	4528.9	4542.5	4506.2	4515.2	4469.8	4478.9
17.5°	5510.0	5355.6	5142.1	4824.1	4637.9	4610.6	4528.9	4383.5	4301.7	4265.4	4297.2
20°	5705.4	5555.5	5246.6	4846.8	4678.8	4606.1	4338.1	4160.9	3992.9	3902.0	3906.5
22.5°	5878.0	5691.7	5201.2	4855.9	4715.1	4415.3	4092.8	3743.0	3534.1	3393.2	3397.8
25°	6086.9	5823.5	5219.3	4874.1	4619.7	4111.0	3647.6	3306.9	3057.1	2961.7	2993.5
27.5°	6205.1	5905.2	5319.3	4915.0	4369.9	3679.4	3179.7	2861.8	2716.4	2671.0	2666.4
30°	6559.4	6086.9	5441.9	4833.2	3952.0	3216.1	2752.8	2557.4	2416.6	2375.7	2384.8
32.5°	7086.3	6418.5	5600.9	4619.7	3525.0	2802.7	2475.7	2330.3	2198.6	2121.3	2112.3
35°	7526.9	6986.4	5769.0	4288.1	3029.8	2484.7	2280.3	2098.6	1898.8	1812.5	1789.7
37.5°	8367.3	7626.9	5732.6	3788.4	2557.4	2248.5	2071.4	1848.8	1676.2	1558.1	1544.4
40°	9484.7	8376.4	5555.5	3179.7	2207.7	2039.6	1848.8	1635.3	1421.8	1321.9	1312.8
42.5°	10842.9	9293.9	5233.0	2562.0	1857.9	1830.6	1658.0	1412.7	1221.9	1149.3	1153.8
45°	11946.8	10079.8	4905.9	2057.8	1599.0	1626.2	1476.3	1244.6	1112.9	1053.9	1053.9
47.5°	12927.9	10611.3	4551.6	1698.9	1358.2	1421.8	1290.1	1153.8	1040.2	994.8	985.7
50°	13872.8	11151.8	4197.3	1376.4	1158.3	1221.9	1208.3	1099.3	1008.4	953.9	958.5
52.5°	14463.3	11238.1	3747.6	1126.5	1013.0	1085.7	1131.1	1031.1	931.2	899.4	890.3
55°	13741.1	10125.2	2907.2	926.7	858.5	953.9	1040.2	926.7	849.4	794.9	790.4
56°	12769.0	9053.2	2430.2	854.0	813.1	917.6	1008.4	885.8	799.5	767.7	745.0
57.5°	10811.1	7408.8	1794.3	758.6	754.1	854.0	958.5	844.9	745.0	717.7	717.7
60°	6741.1	4170.0	1085.7	635.9	654.1	758.6	863.1	754.1	663.2	663.2	676.8
62.5°	3070.7	1735.2	658.7	540.6	563.3	654.1	767.7	681.4	631.4	681.4	690.5
65°	1044.8	749.5	477.0	431.5	445.2	540.6	658.7	690.5	685.9	717.7	735.9
67.5°	586.0	481.5	399.7	358.9	349.8	399.7	540.6	690.5	663.2	649.6	658.7
70°	495.1	408.8	354.3	318.0	304.3	322.5	417.9	522.4	467.9	454.2	445.2
72.5°	399.7	340.7	308.9	286.2	245.3	209.0	190.8	199.9	222.6	236.2	258.9
75°	281.6	258.9	258.9	231.7	177.2	131.7	104.5	86.3	59.1	40.9	45.4
77.5°	159.0	159.0	163.5	140.8	113.6	86.3	63.6	45.4	22.7	9.1	4.5
80°	109.0	118.1	127.2	113.6	95.4	77.2	54.5	31.8	13.6	0.0	0.0
82.5°	109.0	122.6	131.7	113.6	95.4	72.7	54.5	31.8	13.6	4.5	0.0
85°	22.7	27.3	31.8	36.3	54.5	54.5	40.9	27.3	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)