

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: P651994

Luminaire Tested: **GALN-SA7A-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21947.6 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

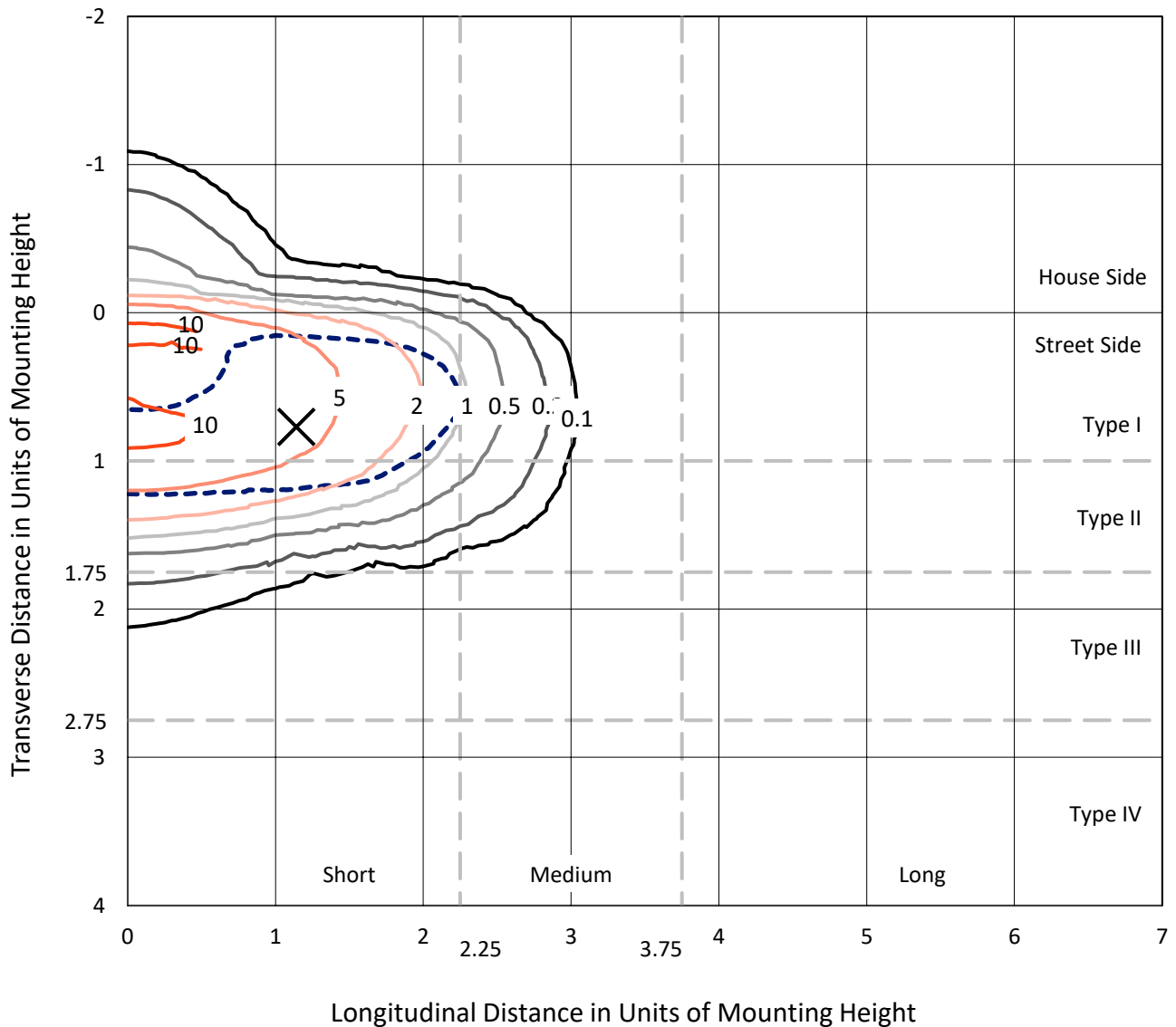
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

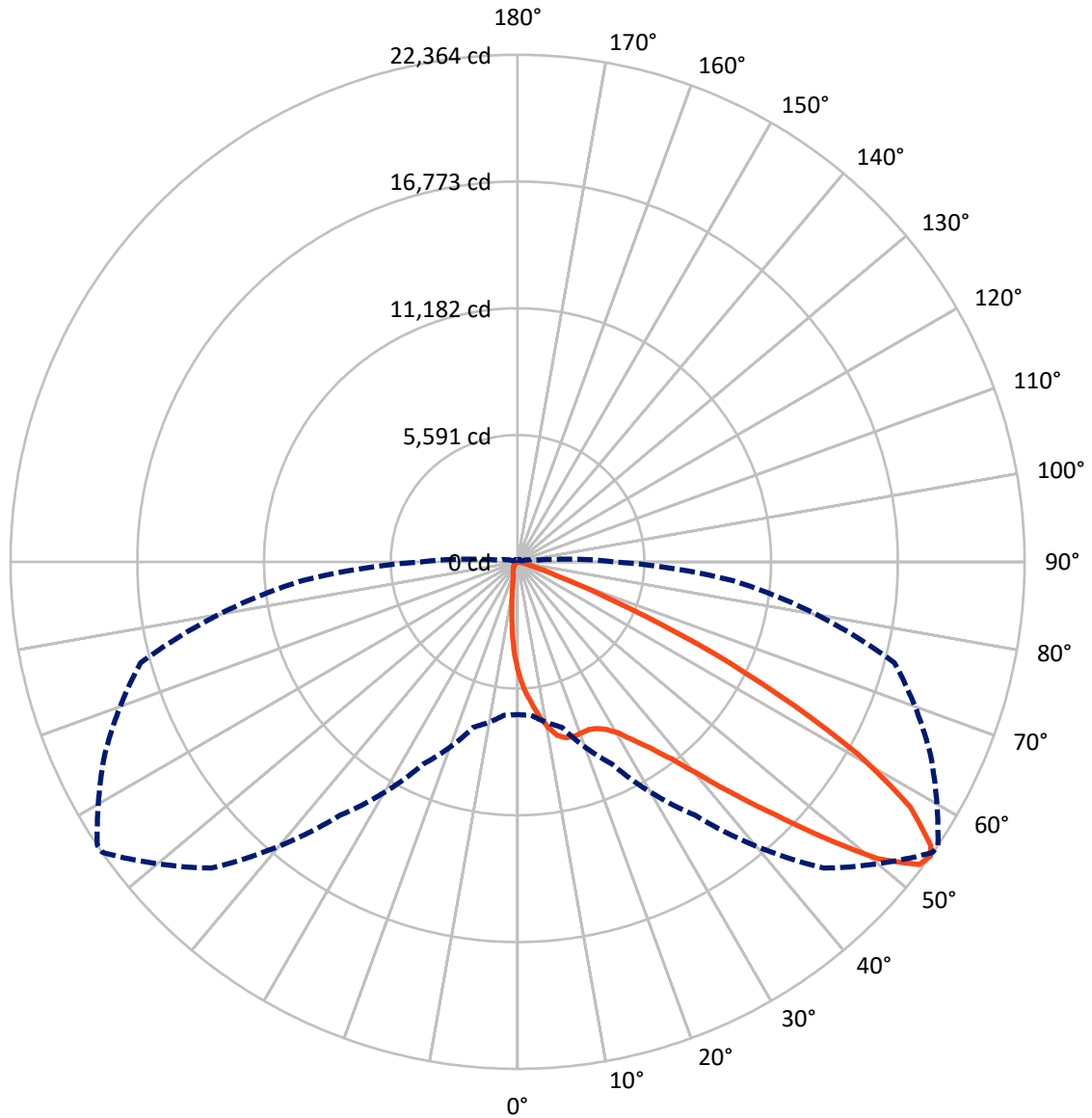
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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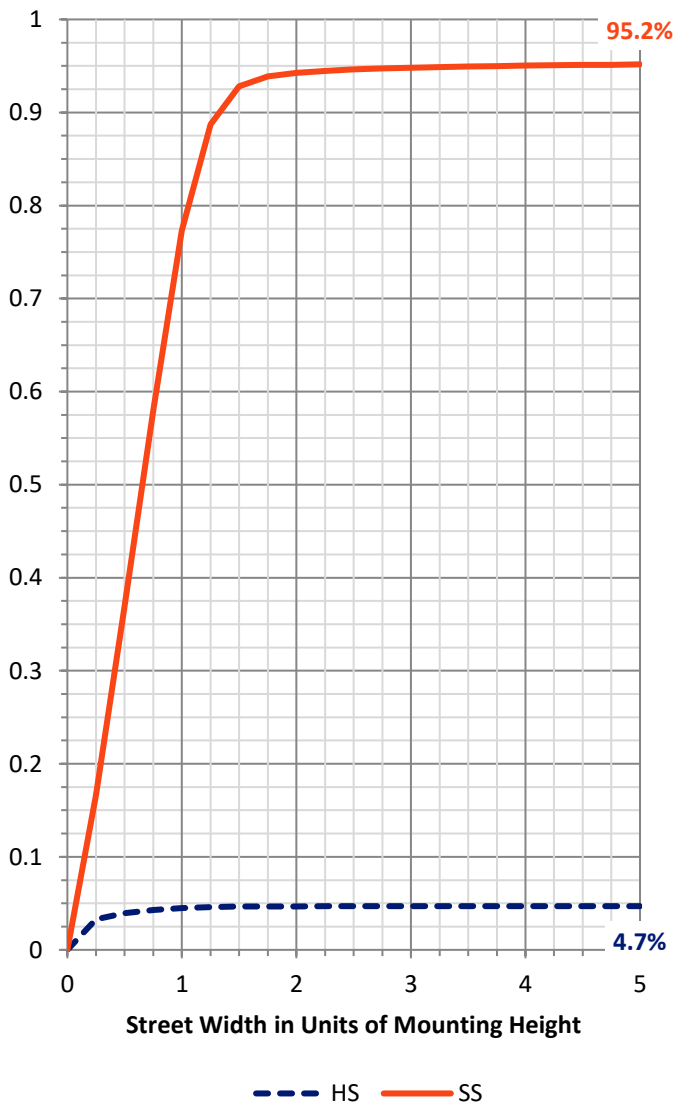
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1037.8	0.0	1037.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	20909.7	0.0	20909.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	21947.6	0.0	21947.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.9	2.0
10°-20°	1164.8	5.3
20°-30°	2017.4	9.2
30°-40°	3482.3	15.9
40°-50°	5927.0	27.0
50°-60°	5865.5	26.7
60°-70°	2677.1	12.2
70°-80°	343.8	1.6
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°	21947.6	100.0
0°-180°	21947.6	100.0

**Coefficient of Utilization**



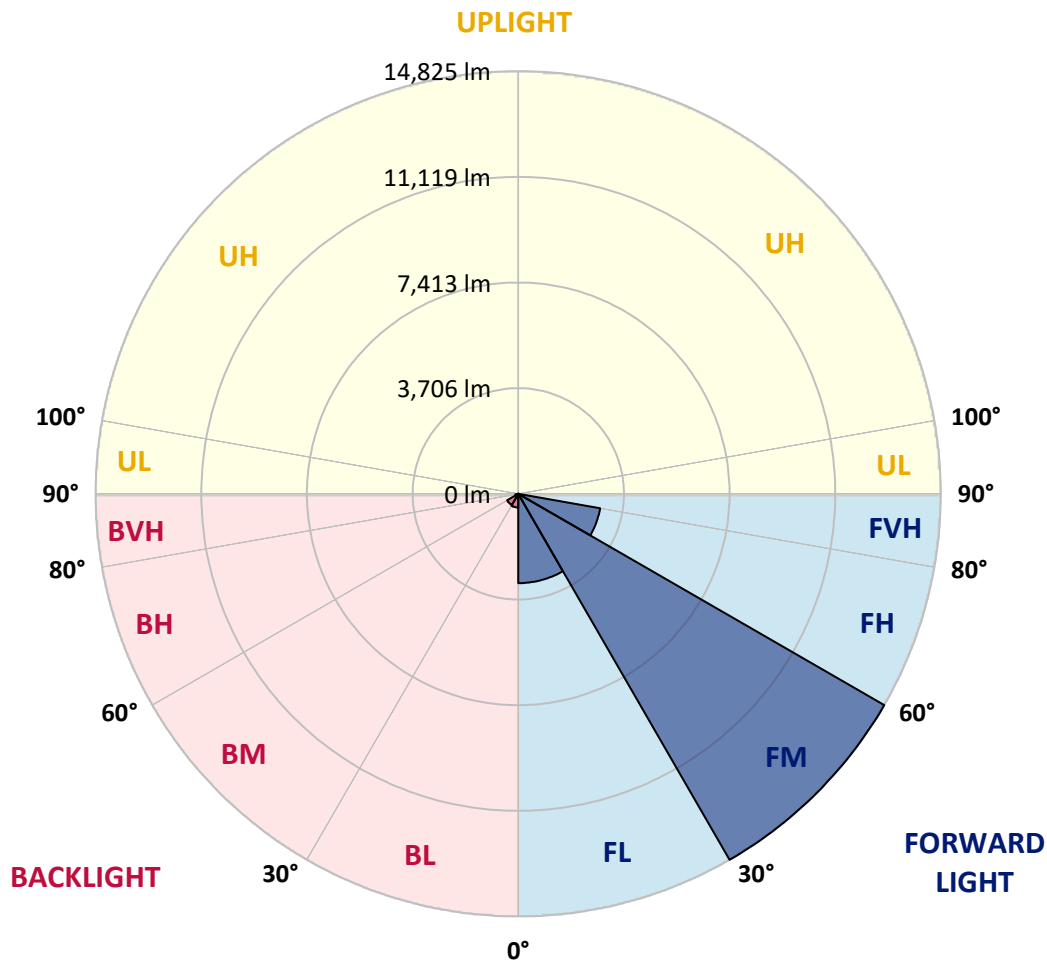
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3133.1	14.3			
FM (30°-60°)	14825.0	67.5			
FH (60°-80°)	2917.0	13.3			G2/5000
FVH (80°-90°)	34.6	0.2			G1/100
BL (0°-30°)	480.0	2.2	B1/500		
BM (30°-60°)	449.8	2.0	B1/1000		
BH (60°-80°)	103.9	0.5	B0/110		G0/110
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1
2.5°	6197.0	6154.0	6094.8	6048.9	5940.8	5785.3	5620.9	5620.9	5462.5	5241.9	5016.8
5°	7147.6	7119.5	7061.7	6943.2	6821.9	6604.1	6273.9	6216.2	5933.3	5533.6	5113.0
7.5°	7534.1	7547.4	7550.3	7519.3	7461.5	7246.8	6919.6	6879.5	6427.9	5891.9	5238.9
10°	7163.9	7229.1	7292.7	7421.6	7603.6	7655.5	7470.4	7429.0	6984.7	6254.7	5375.2
12.5°	6613.0	6648.6	6684.1	6886.9	7252.7	7671.8	7865.8	7864.3	7488.2	6616.0	5548.4
15°	6356.9	6388.0	6390.9	6481.3	6798.1	7408.2	8034.6	8056.8	7979.7	7061.7	5734.9
17.5°	6410.2	6435.3	6414.6	6436.8	6602.7	7118.0	8015.3	8089.3	8378.1	7489.6	5903.7
20°	6758.2	6807.1	6727.1	6664.8	6715.2	7041.0	7950.1	8053.8	8659.4	7907.3	6057.7
22.5°	7383.1	7409.7	7309.0	7138.7	7049.9	7202.4	7932.4	8034.6	8899.3	8249.3	6146.6
25°	8077.5	8068.6	7957.5	7766.6	7580.0	7528.1	8049.4	8141.2	9097.8	8557.3	6173.3
27.5°	8772.0	8798.6	8612.1	8375.2	8151.6	8016.8	8311.4	8379.6	9321.3	8908.2	6205.8
30°	9579.0	9536.0	9352.4	9081.5	8825.3	8637.2	8733.4	8752.7	9629.4	9373.2	6291.7
32.5°	10628.8	10510.4	10304.5	9830.7	9647.1	9328.7	9352.4	9376.1	10003.9	9833.6	6395.4
35°	12053.3	12047.4	11644.7	11006.4	10559.3	10163.9	10060.2	10079.5	10571.1	10517.8	6624.9
37.5°	13768.0	13791.7	13332.7	12690.0	11866.8	11239.0	11025.7	11028.6	11432.9	11462.5	6974.3
40°	15164.4	15226.6	14952.6	14518.8	13705.9	12724.1	12365.8	12333.2	12644.2	12607.1	7473.4
42.5°	15765.6	15823.3	15925.5	16076.6	15629.3	14819.3	13973.9	14018.3	14113.1	13854.0	8033.1
45°	15471.0	15562.7	15964.0	16896.9	17317.5	17045.0	16036.5	15881.1	15479.8	15208.8	8595.8
47.5°	14243.3	14467.0	15137.7	16691.1	18162.9	19084.0	18364.3	18158.5	16848.0	16198.0	8954.1
50°	12225.1	12238.4	13172.8	15158.4	17724.6	20370.7	20740.9	20586.9	18123.0	16753.2	9134.8
52.5°	8862.3	9154.0	10009.9	12309.5	15826.3	20175.3	22255.7	22192.1	19437.9	17037.6	9395.4
54°	6737.4	6793.7	7554.8	9836.7	13645.1	19101.7	22349.0	22363.8	20090.9	17209.3	9549.4
55°	5523.2	5388.5	6188.1	8379.6	12157.0	18152.6	22044.0	22115.0	20384.1	17298.2	9663.4
57.5°	2617.9	2619.5	3231.0	4420.0	7614.0	14095.3	20179.7	20431.4	20416.6	17450.7	10014.4
60°	1325.2	1334.2	1468.9	2040.5	3761.1	9370.2	16685.1	17284.8	18845.5	17472.9	10129.8
62.5°	927.0	916.6	894.4	981.7	1582.9	4762.1	12422.1	12943.2	16011.4	16627.4	9762.6
65°	793.7	771.4	709.3	695.9	799.6	1896.9	7736.9	8586.9	12225.1	14397.3	8717.2
67.5°	678.2	669.3	613.0	578.9	565.7	826.3	3992.1	4439.3	8355.9	10349.0	6602.7
70°	576.0	571.5	537.5	494.6	457.6	494.6	1480.7	1834.6	4657.0	5572.0	3115.5
72.5°	467.9	472.4	478.3	423.5	385.0	350.9	632.3	736.0	1948.7	1991.6	1089.9
75°	410.2	405.7	405.7	368.7	321.3	260.6	348.0	374.7	596.8	553.8	253.2
77.5°	288.7	278.4	325.8	303.5	268.0	185.1	198.4	210.2	247.3	211.8	118.5
80°	199.9	199.9	208.8	272.5	241.4	134.7	121.4	130.3	146.6	125.9	68.1
82.5°	112.5	115.5	136.2	145.1	140.7	90.3	80.0	81.4	97.7	85.9	43.0
85°	13.3	22.2	78.5	77.0	57.8	39.9	44.4	45.9	60.7	53.3	25.1
87.5°	1.5	2.9	16.3	20.7	14.8	16.3	16.3	16.3	20.7	23.7	17.7
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°	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1	4876.1
2.5°	4895.4	4782.9	4514.8	4203.8	4005.4	3682.7	3410.2	3213.2	3164.3	3069.6	3097.7
5°	4889.4	4655.5	4109.1	3531.6	2915.6	2456.6	2114.5	1845.0	1726.6	1648.1	1593.3
7.5°	4892.4	4526.7	3650.0	2730.5	1994.6	1544.4	1227.5	1063.2	953.6	907.7	913.7
10°	4901.3	4381.5	3117.0	2022.7	1346.0	998.0	804.1	725.5	688.5	682.6	681.1
12.5°	4922.0	4223.1	2607.6	1501.5	941.8	725.5	651.5	624.9	613.0	613.0	608.5
15°	4944.2	4048.4	2184.1	1116.5	725.5	623.4	589.4	576.0	568.6	568.6	567.2
17.5°	4944.2	3847.0	1788.7	866.2	624.9	573.1	546.4	528.7	522.7	522.7	521.3
20°	4913.1	3613.0	1437.8	697.4	567.2	525.7	499.0	479.8	472.4	469.4	467.9
22.5°	4805.1	3300.6	1144.6	599.7	519.7	484.2	450.2	427.9	422.0	419.1	420.5
25°	4612.5	2948.2	906.3	527.1	476.8	433.9	404.3	388.0	382.1	382.1	383.5
27.5°	4414.2	2579.4	718.1	472.4	425.0	386.4	362.8	352.4	350.9	355.4	356.8
30°	4230.5	2209.3	582.0	427.9	379.0	346.5	330.2	327.2	327.2	328.7	330.2
32.5°	4026.2	1885.0	487.2	389.5	342.0	313.9	305.0	305.0	308.0	308.0	310.9
35°	3897.4	1606.6	427.9	352.4	313.9	290.2	284.3	285.8	290.2	296.1	299.1
37.5°	3827.7	1384.5	389.5	322.8	287.3	271.0	265.1	268.0	278.4	288.7	290.2
40°	3833.7	1217.2	358.4	297.6	266.5	248.8	244.3	253.2	263.6	273.9	275.4
42.5°	3898.8	1092.8	328.7	268.0	248.8	223.6	222.1	231.0	235.5	245.8	247.3
45°	3975.8	1002.5	297.6	236.9	216.2	194.0	195.4	202.8	208.8	225.1	228.0
47.5°	3999.5	940.2	262.1	201.4	177.7	170.3	171.7	176.2	188.0	202.8	204.4
50°	4026.2	901.8	228.0	170.3	151.0	149.5	151.0	154.0	161.4	167.4	165.8
52.5°	4140.2	900.3	199.9	148.1	128.8	131.8	133.3	131.8	125.9	117.0	114.0
54°	4246.8	904.7	186.5	137.7	118.5	122.9	121.4	114.0	99.2	90.3	85.9
55°	4332.7	909.2	179.1	130.3	112.5	114.0	115.5	100.7	81.4	72.6	69.6
57.5°	4501.5	898.8	161.4	114.0	99.2	93.3	91.8	66.6	44.4	38.5	35.6
60°	4417.1	811.5	146.6	97.7	84.4	75.5	62.1	37.0	22.2	16.3	16.3
62.5°	4085.4	688.5	130.3	80.0	69.6	57.8	32.5	20.7	10.3	5.9	4.5
65°	3654.5	578.9	117.0	63.7	54.7	37.0	17.7	13.3	4.5	0.0	0.0
67.5°	2717.2	429.4	99.2	50.4	41.5	23.7	11.9	7.4	1.5	0.0	0.0
70°	1258.6	262.1	84.4	38.5	29.6	17.7	8.9	4.5	0.0	0.0	0.0
72.5°	361.3	164.3	69.6	28.2	20.7	14.8	7.4	2.9	1.5	0.0	0.0
75°	125.9	131.8	51.8	20.7	16.3	10.3	5.9	2.9	1.5	0.0	0.0
77.5°	75.5	106.6	32.5	17.7	13.3	8.9	5.9	2.9	1.5	1.5	0.0
80°	43.0	71.1	20.7	14.8	11.9	7.4	4.5	2.9	1.5	1.5	0.0
82.5°	23.7	34.1	16.3	13.3	10.3	7.4	4.5	2.9	1.5	1.5	1.5
85°	19.3	17.7	13.3	11.9	8.9	5.9	4.5	1.5	0.0	0.0	0.0
87.5°	14.8	11.9	11.9	11.9	8.9	5.9	4.5	1.5	0.0	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)