

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: P651047

Luminaire Tested: **GALN-SA7C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41212.4 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

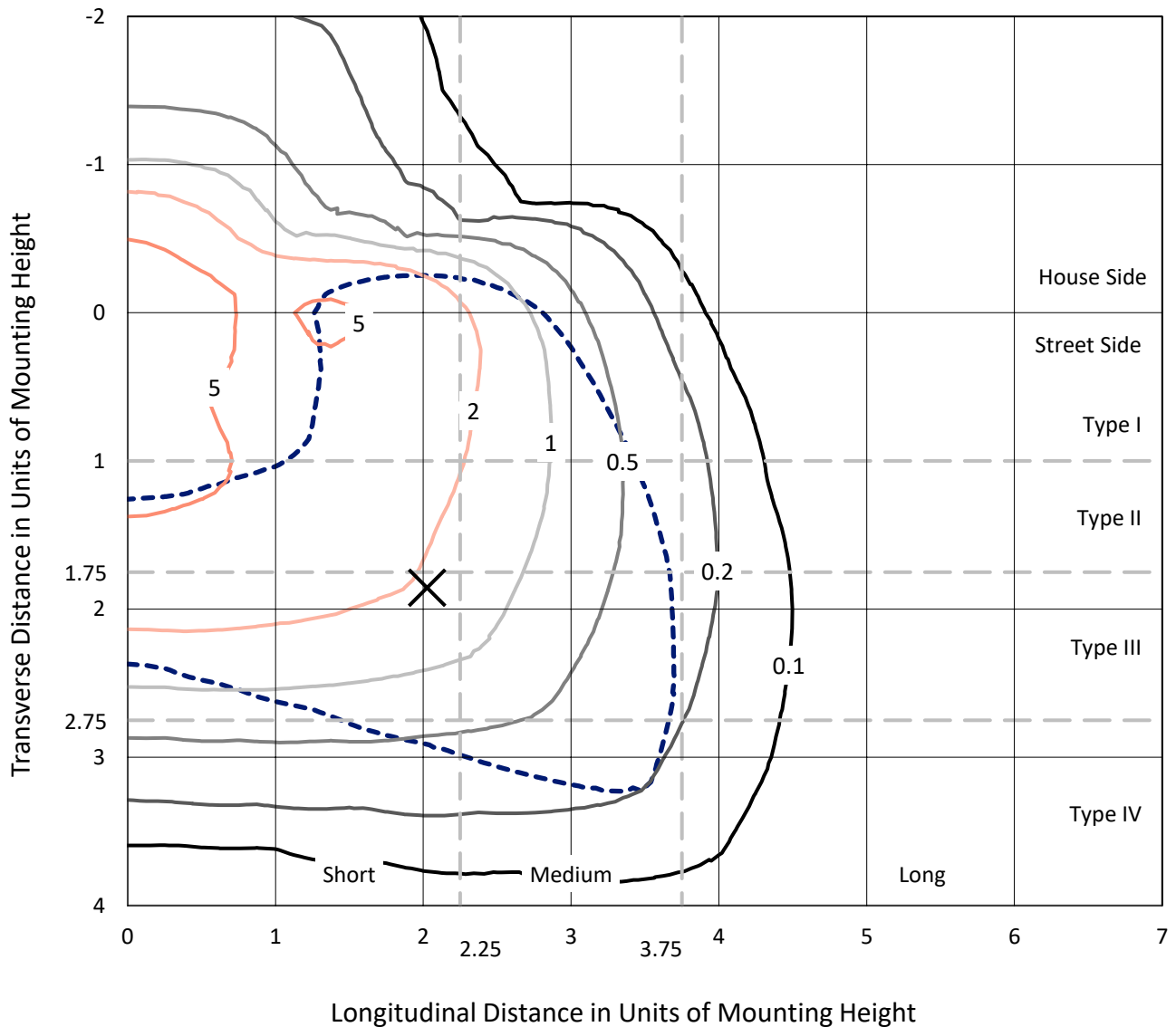
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651047  
 CATALOG NUMBER: GALN-SA7C-840-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

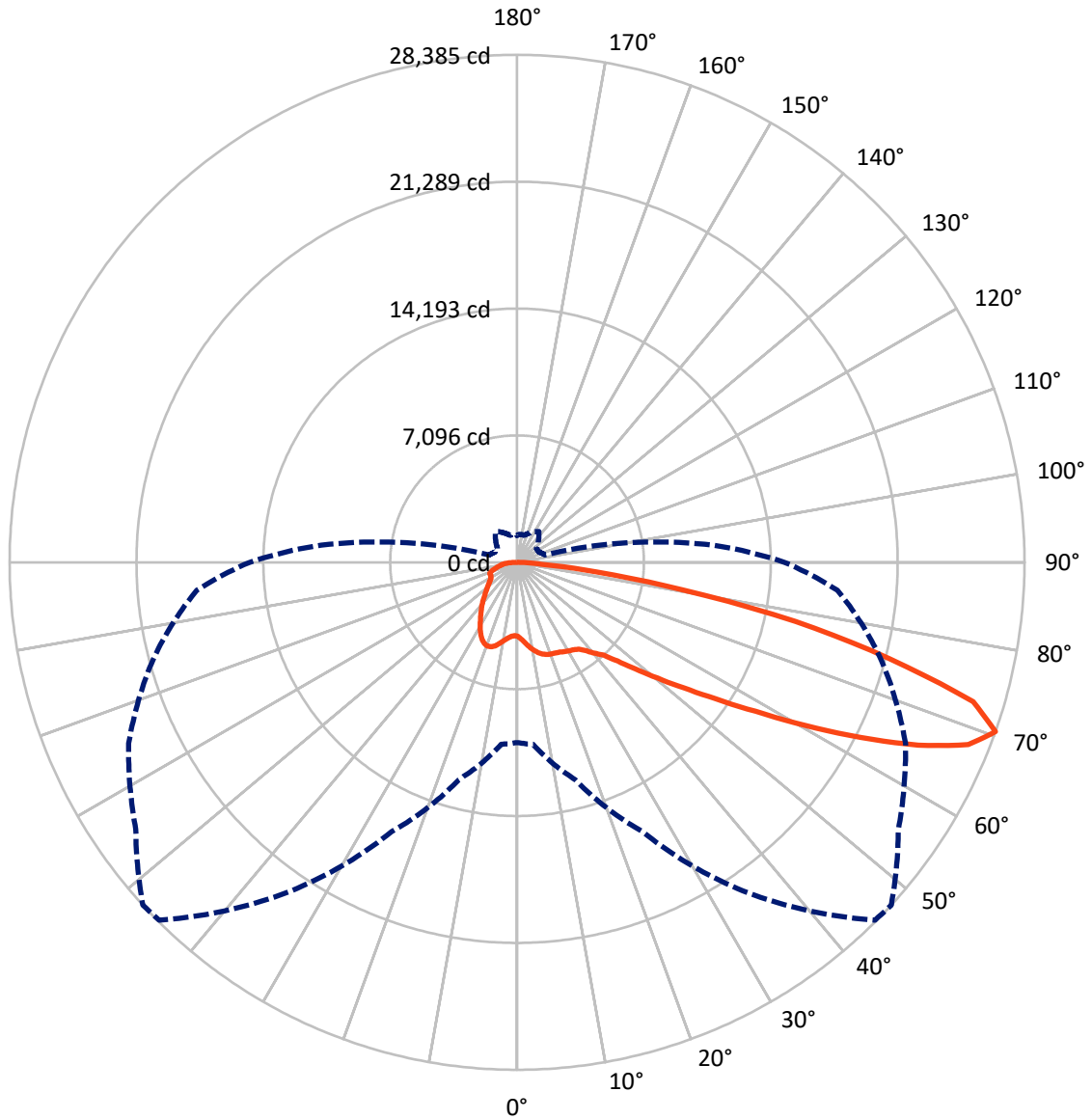
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P651047  
CATALOG NUMBER: GALN-SA7C-840-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P651047  
 CATALOG NUMBER: GALN-SA7C-840-U-T4W

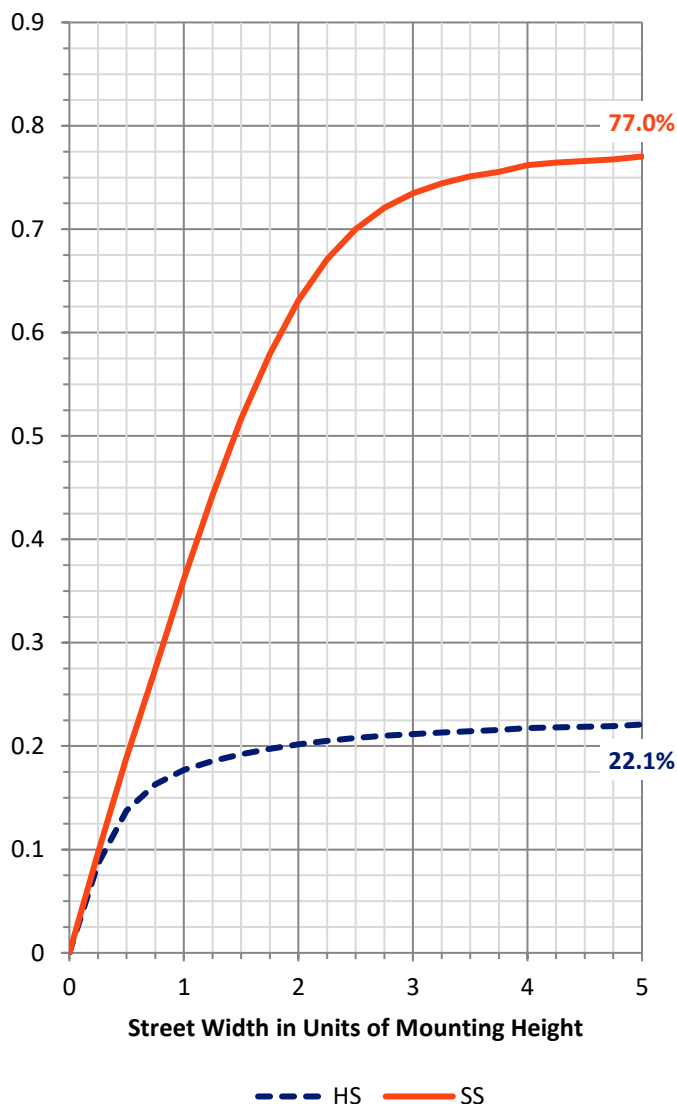
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9331.3	0.0	9331.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	31881.1	0.0	31881.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	41212.4	0.0	41212.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.5	1.0
10°-20°	1425.7	3.5
20°-30°	2370.9	5.8
30°-40°	3360.4	8.2
40°-50°	4960.7	12.0
50°-60°	8592.1	20.8
60°-70°	12136.6	29.4
70°-80°	6976.8	16.9
80°-90°	962.6	2.3
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°	41212.4	100.0
0°-180°	41212.4	100.0

**Coefficient of Utilization**

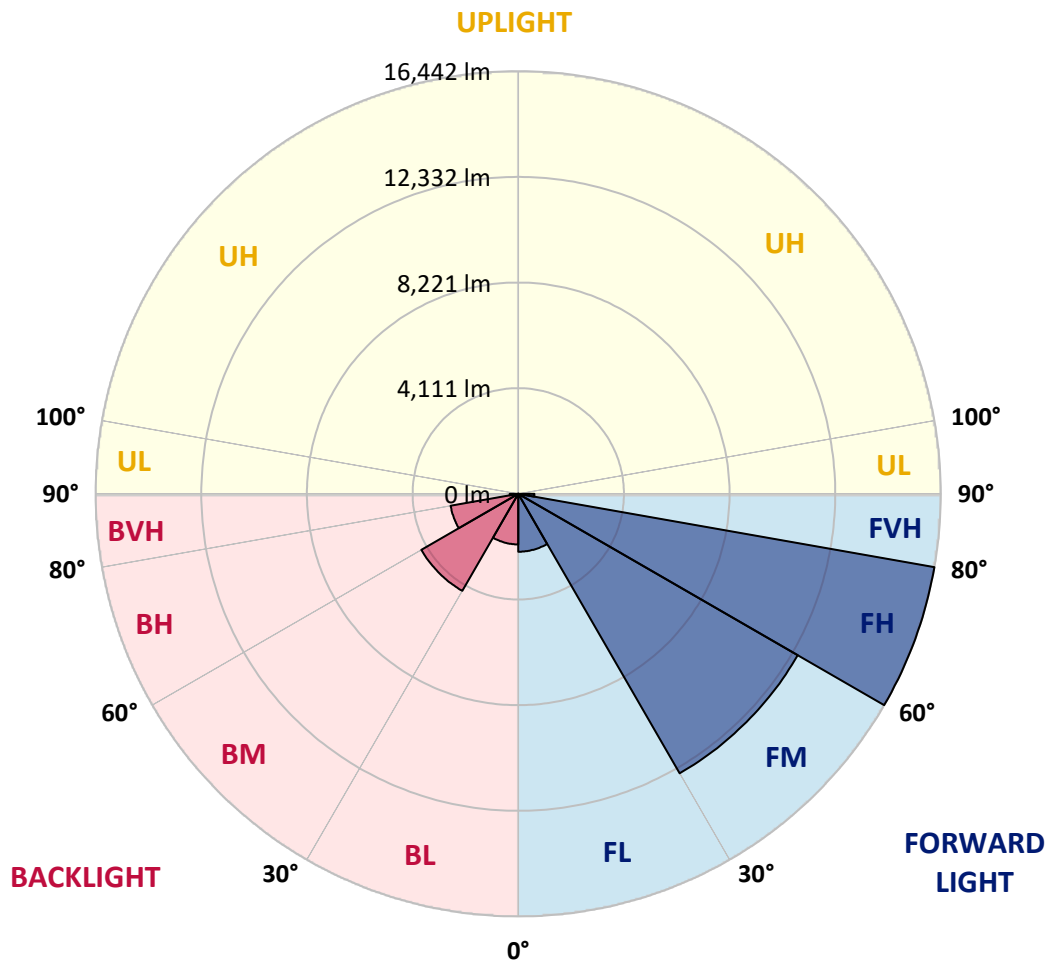


REPORT NUMBER: P651047  
 CATALOG NUMBER: GALN-SA7C-840-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.6	5.5			
FM (30°-60°)	12556.6	30.5			
FH (60°-80°)	16442.0	39.9			G5
FVH (80°-90°)	628.8	1.5			G4/750
BL (0°-30°)	1969.4	4.8	B3/2500		
BM (30°-60°)	4356.6	10.6	B3/5000		
BH (60°-80°)	2671.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	333.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





REPORT NUMBER: P651047  
 CATALOG NUMBER: GALN-SA7C-840-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2
2.5°	4404.1	4388.7	4386.4	4353.4	4335.7	4302.6	4289.4	4258.5	4221.1	4183.6	4148.2
5°	4750.3	4750.3	4734.9	4688.6	4615.7	4540.8	4507.8	4448.2	4342.3	4256.3	4183.6
7.5°	5105.4	5109.7	5078.9	5010.5	4906.9	4785.6	4754.8	4666.5	4516.5	4390.9	4282.8
10°	5411.9	5411.9	5370.0	5277.4	5147.3	5015.0	4984.1	4884.9	4717.3	4560.7	4419.5
12.5°	5645.7	5645.7	5590.5	5469.3	5328.1	5209.0	5173.7	5078.9	4922.3	4748.1	4569.5
15°	5797.9	5786.8	5725.1	5588.4	5451.6	5347.9	5323.7	5244.3	5101.0	4924.6	4723.8
17.5°	5804.5	5800.0	5740.5	5625.9	5506.8	5436.1	5420.7	5367.8	5255.3	5087.7	4876.0
20°	5676.6	5685.4	5645.7	5564.1	5506.8	5475.8	5469.3	5451.6	5372.2	5215.6	5004.0
22.5°	5539.8	5555.2	5517.8	5473.6	5469.3	5500.1	5504.5	5509.0	5458.3	5306.0	5112.0
25°	5506.8	5517.8	5480.3	5440.6	5464.8	5546.5	5564.1	5581.7	5542.0	5414.1	5239.9
27.5°	5674.3	5665.6	5592.7	5506.8	5522.2	5632.4	5656.7	5676.6	5656.7	5546.5	5398.7
30°	6148.5	6119.8	5974.3	5722.8	5643.4	5720.7	5745.0	5800.0	5800.0	5718.5	5570.7
32.5°	6942.5	6887.3	6620.4	6126.4	5850.8	5804.5	5828.7	5919.1	5965.5	5901.5	5740.5
35°	7906.2	7848.8	7467.3	6803.5	6230.1	5972.1	5965.5	6066.9	6190.4	6047.0	5837.5
37.5°	8874.3	8814.8	8356.0	7610.6	6783.7	6324.9	6285.2	6320.5	6373.4	6111.0	5972.1
40°	9842.5	9771.9	9370.5	8512.6	7460.7	6792.4	6688.8	6530.0	6508.0	6320.5	6232.3
42.5°	10801.8	10737.8	10535.0	9524.9	8272.2	7249.0	7090.2	6816.7	6900.5	6788.0	6710.8
45°	11770.0	11774.3	11558.2	10660.6	9251.4	8091.4	7877.5	7449.7	7648.1	7606.3	7650.3
47.5°	12627.8	12616.8	12539.6	11763.3	10466.6	9176.4	8900.8	8404.5	8744.2	8898.5	9235.9
50°	13459.2	13452.6	13457.0	13013.7	11877.9	10466.6	10162.2	9641.7	10407.0	10942.9	11547.2
52.5°	14650.1	14687.6	14420.7	14303.9	13593.8	11990.5	11655.3	11117.2	12372.0	13216.7	14396.5
55°	15845.4	15814.5	15605.0	15726.3	15388.9	13794.4	13443.8	13015.9	14559.6	15483.7	17256.8
57.5°	16548.9	16560.0	16773.8	17367.1	17605.2	16043.8	15726.3	15395.5	17018.6	17673.6	19801.8
60°	17181.8	17232.6	17847.9	18968.2	19614.3	18807.2	18524.9	18202.9	19274.7	19534.9	22011.6
62.5°	17380.4	17536.9	18610.9	20286.9	21572.7	21925.5	21574.8	20864.8	21422.7	21321.3	23509.0
65°	16390.1	16604.0	18529.3	20780.9	23321.5	24885.1	24662.3	23343.6	23253.1	22642.2	23753.8
67.5°	13783.4	13997.4	16469.5	19744.4	24044.9	27447.7	27224.9	25152.0	24364.6	22765.8	21901.2
70°	10085.0	10219.6	12583.7	16623.9	22591.5	28307.8	28385.0	26034.1	23967.7	21087.5	17982.3
72.5°	5811.1	6108.8	7765.0	11694.9	18456.5	26133.3	26669.2	24199.3	21458.0	17592.0	12572.7
75°	2498.7	2505.3	3590.3	6450.6	12499.9	21005.9	21524.1	20059.8	16851.0	12164.6	6713.0
77.5°	1188.7	1210.7	1579.1	2880.2	6880.6	14513.4	15911.6	14171.5	10777.5	5844.2	2536.1
80°	771.9	787.3	966.0	1429.0	3374.2	8415.6	9390.4	8175.2	4754.8	2088.5	1093.9
82.5°	467.5	472.0	646.1	873.3	1856.9	3810.8	4492.3	3548.4	2028.9	1250.4	644.0
85°	284.5	286.7	392.6	540.3	1126.9	1316.6	1351.9	1340.9	1190.9	818.2	344.1
87.5°	136.7	141.1	202.9	255.8	443.3	408.0	385.9	447.7	562.4	441.1	147.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651047  
 CATALOG NUMBER: GALN-SA7C-840-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2	4137.2
2.5°	4132.8	4126.2	4110.7	4104.2	4099.7	4102.0	4099.7	4099.7	4102.0	4102.0	4102.0
5°	4152.7	4141.7	4117.4	4117.4	4130.6	4161.5	4190.1	4212.2	4236.5	4234.3	4234.3
7.5°	4238.6	4218.8	4190.1	4198.9	4232.1	4280.6	4331.3	4379.8	4428.4	4432.7	4430.6
10°	4364.4	4344.5	4313.7	4324.7	4377.6	4450.4	4514.3	4584.9	4637.9	4653.3	4648.9
12.5°	4507.8	4468.1	4441.6	4472.4	4556.2	4653.3	4715.1	4768.0	4805.5	4827.5	4818.7
15°	4653.3	4615.7	4584.9	4648.9	4750.3	4840.7	4871.6	4880.4	4887.1	4909.1	4904.7
17.5°	4794.5	4743.7	4732.6	4816.5	4913.5	4953.2	4935.6	4898.1	4869.4	4887.1	4884.9
20°	4920.1	4880.4	4876.0	4959.8	4997.3	4959.8	4884.9	4818.7	4768.0	4772.3	4770.2
22.5°	5039.2	5008.3	5012.8	5048.0	4988.5	4860.6	4737.1	4646.7	4591.5	4602.5	4609.2
25°	5171.6	5140.7	5151.7	5094.4	4898.1	4675.4	4496.7	4419.5	4397.4	4419.5	4434.9
27.5°	5343.5	5323.7	5317.1	5096.5	4737.1	4401.9	4198.9	4170.3	4190.1	4238.6	4262.9
30°	5528.8	5528.8	5493.5	5059.0	4516.5	4073.3	3896.9	3901.2	3969.6	4038.0	4062.3
32.5°	5707.4	5745.0	5634.6	4957.6	4232.1	3753.5	3619.0	3623.4	3682.9	3766.8	3788.8
35°	5855.2	5963.3	5756.0	4772.3	3896.9	3484.4	3383.0	3323.5	3325.7	3389.7	3407.2
37.5°	6058.1	6258.8	5826.5	4496.7	3539.6	3255.1	3140.4	3036.8	2968.4	2941.9	2941.9
40°	6410.9	6706.5	5844.2	4088.7	3202.2	3036.8	2873.5	2750.1	2617.8	2498.7	2476.6
42.5°	7008.6	7381.3	5808.9	3619.0	2897.8	2796.4	2637.6	2485.4	2302.4	2134.8	2121.5
45°	8067.1	8259.0	5714.0	3131.5	2626.5	2564.8	2410.5	2245.0	2050.9	1901.0	1890.0
47.5°	9763.1	9491.8	5588.4	2699.4	2379.5	2361.9	2242.9	2050.9	1856.9	1753.2	1742.2
50°	12239.7	11432.5	5570.7	2386.2	2181.0	2189.9	2092.9	1916.5	1746.7	1660.6	1647.4
52.5°	15221.3	13776.8	5687.6	2165.7	2006.9	2039.9	1991.4	1828.2	1678.3	1605.5	1592.3
55°	18114.7	15885.1	5758.2	1993.6	1843.6	1905.5	1912.0	1775.3	1638.6	1565.8	1556.9
57.5°	20463.4	17473.0	5445.0	1837.1	1702.5	1797.4	1845.9	1744.4	1618.8	1563.6	1554.8
60°	22097.5	18222.8	4554.0	1698.1	1598.9	1711.4	1821.6	1746.7	1667.2	1673.8	1678.3
62.5°	22618.0	17889.8	3416.1	1594.5	1528.3	1682.7	1861.3	1837.1	1755.4	1806.2	1815.0
65°	21755.7	16513.6	2476.6	1512.9	1466.5	1702.5	1980.4	1903.2	1724.6	1762.1	1762.1
67.5°	18868.9	14226.7	1927.5	1437.9	1396.0	1740.0	2099.5	1896.6	1651.8	1695.9	1656.2
70°	14967.7	11004.7	1605.5	1354.1	1321.0	1684.9	2110.5	1828.2	1565.8	1574.6	1499.7
72.5°	9932.9	7235.7	1380.6	1274.7	1206.3	1515.1	2020.1	1740.0	1482.0	1431.3	1356.3
75°	4867.2	3608.0	1204.1	1175.5	1056.4	1318.8	1896.6	1656.2	1391.6	1312.2	1270.2
77.5°	1885.6	1534.9	1027.7	1049.7	919.6	1162.2	1733.4	1537.1	1272.5	1164.4	1131.3
80°	915.2	871.1	842.4	875.5	756.4	990.2	1583.4	1433.5	1162.2	1043.1	994.7
82.5°	569.0	538.1	646.1	681.5	582.2	904.2	1501.9	1345.3	1023.2	864.5	824.8
85°	288.9	308.7	432.3	465.3	416.8	719.0	1237.2	1010.0	738.8	613.1	617.5
87.5°	110.3	147.8	227.2	244.8	222.8	379.3	681.5	588.9	474.2	322.0	297.7
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)