

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: P650949

Luminaire Tested: **GALN-SA6C-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650949  
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-SA6C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA 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: 28726 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

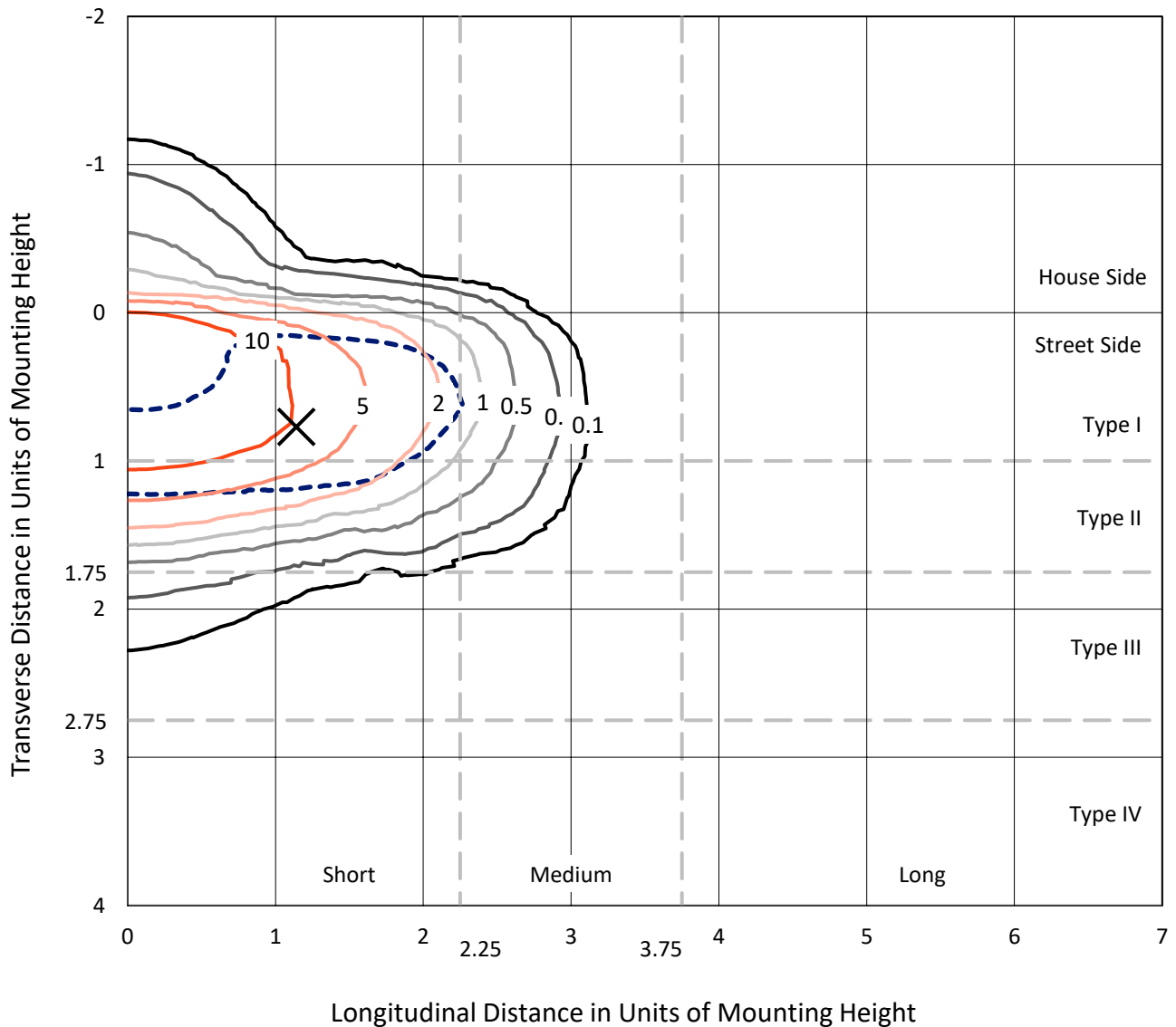
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

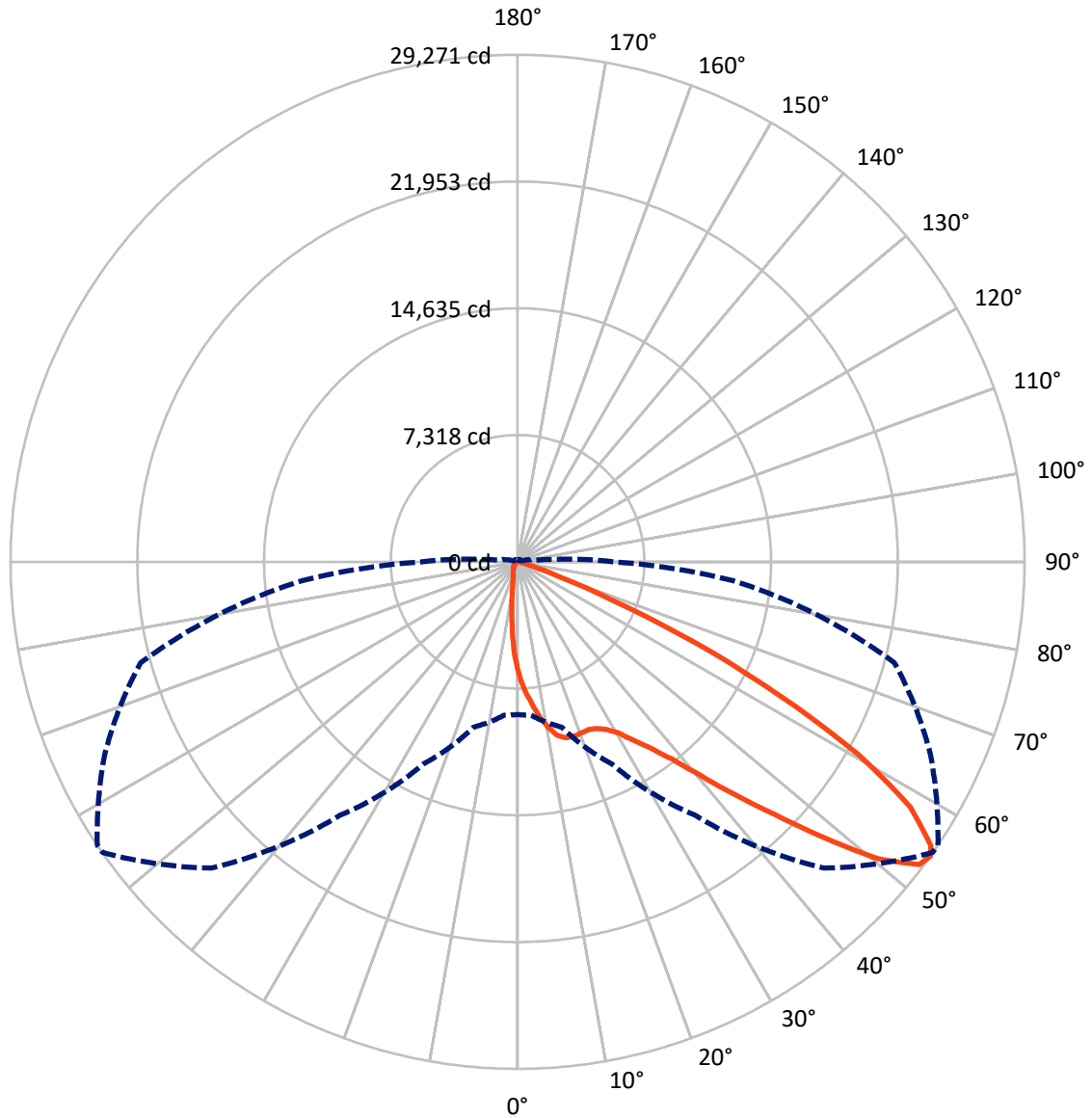
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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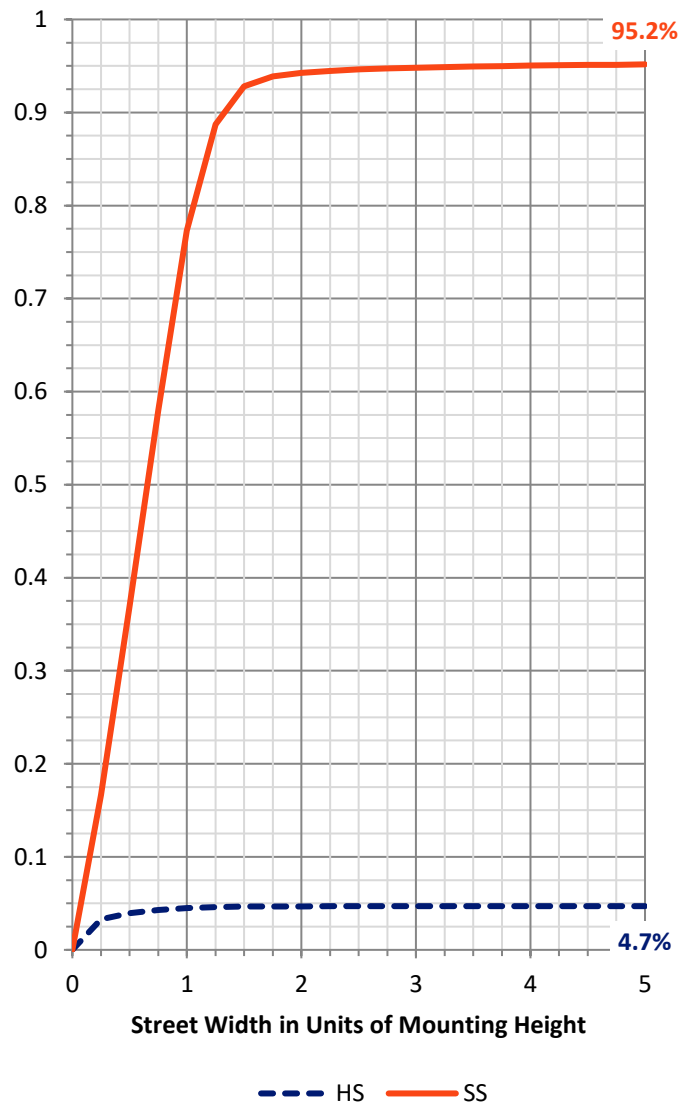
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1358.4	0.0	1358.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	27367.6	0.0	27367.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	28726.0	0.0	28726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.0	2.0
10°-20°	1524.6	5.3
20°-30°	2640.4	9.2
30°-40°	4557.8	15.9
40°-50°	7757.5	27.0
50°-60°	7677.1	26.7
60°-70°	3504.0	12.2
70°-80°	450.0	1.6
80°-90°	50.7	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°	28726.0	100.0
0°-180°	28726.0	100.0

**Coefficient of Utilization**

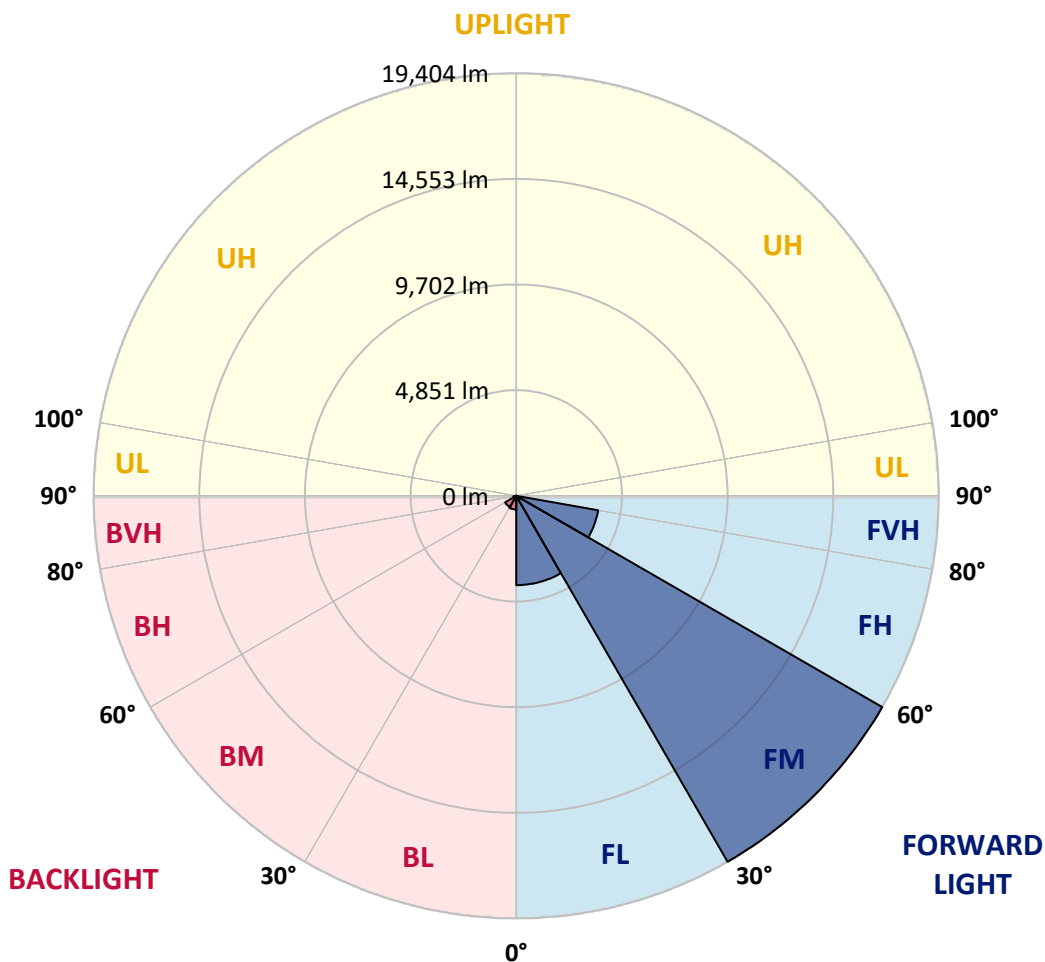


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4100.7	14.3			
FM (30°-60°)	19403.7	67.5			
FH (60°-80°)	3817.9	13.3			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	628.2	2.2	B2/1000		
BM (30°-60°)	588.7	2.0	B1/1000		
BH (60°-80°)	136.0	0.5	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1
2.5°	8110.9	8054.7	7977.1	7917.1	7775.5	7572.1	7357.0	7357.0	7149.6	6860.8	6566.2
5°	9355.1	9318.3	9242.7	9087.7	8928.7	8643.8	8211.6	8136.1	7765.9	7242.6	6692.2
7.5°	9861.0	9878.4	9882.3	9841.6	9766.0	9485.0	9056.6	9004.3	8413.2	7711.6	6856.9
10°	9376.4	9461.7	9545.0	9713.6	9952.1	10019.8	9777.6	9723.4	9141.9	8186.5	7035.2
12.5°	8655.5	8702.0	8748.5	9014.0	9492.7	10041.2	10295.1	10293.2	9800.8	8659.4	7262.0
15°	8320.2	8360.9	8364.8	8483.0	8897.7	9696.2	10516.0	10545.1	10444.3	9242.7	7506.2
17.5°	8390.0	8422.9	8395.8	8424.8	8641.9	9316.3	10490.8	10587.8	10965.6	9802.8	7727.1
20°	8845.4	8909.4	8804.7	8723.3	8789.2	9215.6	10405.5	10541.3	11333.9	10349.3	7928.7
22.5°	9663.3	9698.2	9566.4	9343.5	9227.2	9426.9	10382.3	10516.0	11647.8	10797.0	8045.0
25°	10572.2	10560.6	10415.3	10165.3	9921.0	9853.2	10535.4	10655.6	11907.6	11200.2	8079.8
27.5°	11481.2	11516.1	11271.8	10961.8	10669.1	10492.7	10878.4	10967.6	12200.2	11659.5	8122.5
30°	12537.5	12481.3	12240.9	11886.3	11551.0	11304.8	11430.8	11456.0	12603.3	12268.1	8234.9
32.5°	13911.6	13756.5	13487.1	12866.9	12626.6	12209.9	12240.9	12272.0	13093.7	12870.8	8370.6
35°	15776.0	15768.2	15241.1	14405.7	13820.5	13303.0	13167.3	13192.5	13836.0	13766.2	8671.0
37.5°	18020.3	18051.3	17450.5	16609.3	15531.8	14710.0	14431.0	14434.8	14963.9	15002.7	9128.4
40°	19847.9	19929.3	19570.7	19002.9	17938.9	16653.9	16184.9	16142.2	16549.3	16500.8	9781.5
42.5°	20634.8	20710.3	20844.0	21041.7	20456.4	19396.3	18289.6	18347.8	18471.8	18132.7	10514.1
45°	20249.1	20369.2	20894.5	22115.4	22665.9	22309.2	20989.4	20785.9	20260.7	19906.0	11250.6
47.5°	18642.4	18935.0	19813.0	21846.1	23772.5	24978.0	24036.1	23766.7	22051.4	21200.7	11719.6
50°	16000.8	16018.3	17241.2	19840.1	23198.8	26662.1	27146.7	26945.1	23720.2	21927.5	11956.0
52.5°	11599.4	11981.2	13101.4	16111.3	20714.2	26406.4	29129.4	29046.0	25441.2	22299.5	12297.1
54°	8818.3	8891.9	9888.1	12874.7	17859.4	25001.2	29251.4	29270.8	26295.9	22524.3	12498.7
55°	7229.1	7052.7	8099.3	10967.6	15911.6	23758.9	28852.2	28945.2	26679.6	22640.6	12647.9
57.5°	3426.5	3428.5	4228.9	5785.2	9965.6	18448.6	26412.2	26741.6	26722.3	22840.3	13107.2
60°	1734.6	1746.3	1922.6	2670.7	4922.7	12264.1	21838.3	22623.2	24665.9	22869.3	13258.4
62.5°	1213.2	1199.7	1170.6	1285.0	2071.8	6232.9	16258.5	16940.8	20956.5	21762.7	12777.7
65°	1038.8	1009.7	928.4	910.9	1046.5	2482.7	10126.5	11239.0	16000.8	18844.0	11409.5
67.5°	887.7	876.0	802.4	757.8	740.3	1081.4	5225.0	5810.4	10936.6	13545.2	8641.9
70°	753.9	748.1	703.5	647.3	598.9	647.3	1938.1	2401.3	6095.2	7293.0	4077.8
72.5°	612.4	618.2	626.0	554.3	503.9	459.4	827.5	963.2	2550.5	2606.7	1426.4
75°	536.8	531.0	531.0	482.6	420.6	341.1	455.5	490.3	781.0	724.9	331.4
77.5°	377.9	364.3	426.4	397.3	350.8	242.3	259.7	275.2	323.7	277.1	155.1
80°	261.6	261.6	273.2	356.6	315.9	176.4	158.9	170.6	191.8	164.8	89.1
82.5°	147.3	151.2	178.3	189.9	184.1	118.2	104.6	106.6	127.9	112.4	56.2
85°	17.4	29.1	102.7	100.8	75.6	52.3	58.1	60.0	79.5	69.8	33.0
87.5°	1.9	3.9	21.3	27.2	19.3	21.3	21.3	21.3	27.2	31.0	23.3
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°	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1	6382.1
2.5°	6407.3	6260.0	5909.2	5502.2	5242.5	4820.0	4463.4	4205.7	4141.7	4017.6	4054.5
5°	6399.5	6093.3	5378.2	4622.3	3816.1	3215.3	2767.6	2414.8	2259.8	2157.1	2085.3
7.5°	6403.5	5924.7	4777.4	3573.8	2610.6	2021.4	1606.6	1391.5	1248.1	1188.1	1195.8
10°	6415.1	5734.8	4079.7	2647.4	1761.7	1306.2	1052.3	949.7	901.2	893.5	891.5
12.5°	6442.1	5527.4	3412.9	1965.2	1232.7	949.7	852.8	817.9	802.4	802.4	796.5
15°	6471.2	5298.7	2858.6	1461.3	949.7	815.9	771.4	753.9	744.2	744.2	742.3
17.5°	6471.2	5035.2	2341.2	1133.8	817.9	750.0	715.2	691.9	684.2	684.2	682.2
20°	6430.5	4728.9	1881.9	912.8	742.3	688.0	653.1	628.0	618.2	614.4	612.4
22.5°	6289.1	4320.0	1498.2	784.9	680.3	633.8	589.2	560.1	552.4	548.5	550.4
25°	6037.1	3858.8	1186.1	690.0	624.0	567.8	529.1	507.8	500.1	500.1	502.0
27.5°	5777.4	3376.1	940.0	618.2	556.2	505.9	474.8	461.3	459.4	465.2	467.1
30°	5537.1	2891.6	761.7	560.1	496.2	453.6	432.2	428.3	428.3	430.3	432.2
32.5°	5269.6	2467.2	637.6	509.7	447.7	410.9	399.2	399.2	403.1	403.1	407.0
35°	5101.0	2102.8	560.1	461.3	410.9	379.9	372.1	374.1	379.9	387.6	391.5
37.5°	5009.9	1812.1	509.7	422.5	376.0	354.6	346.9	350.8	364.3	377.9	379.9
40°	5017.7	1593.1	469.0	389.6	348.8	325.6	319.7	331.4	345.0	358.5	360.5
42.5°	5102.9	1430.3	430.3	350.8	325.6	292.7	290.7	302.3	308.1	321.7	323.7
45°	5203.8	1312.0	389.6	310.1	283.0	253.9	255.8	265.5	273.2	294.6	298.5
47.5°	5234.7	1230.7	343.0	263.6	232.5	222.9	224.8	230.6	246.2	265.5	267.4
50°	5269.6	1180.3	298.5	222.9	197.7	195.8	197.7	201.6	211.3	219.0	217.1
52.5°	5418.9	1178.3	261.6	193.8	168.6	172.5	174.4	172.5	164.8	153.1	149.2
54°	5558.4	1184.1	244.2	180.2	155.1	160.9	158.9	149.2	129.9	118.2	112.4
55°	5670.9	1190.0	234.5	170.6	147.3	149.2	151.2	131.8	106.6	94.9	91.1
57.5°	5891.8	1176.4	211.3	149.2	129.9	122.1	120.2	87.2	58.1	50.4	46.5
60°	5781.3	1062.1	191.8	127.9	110.5	98.8	81.4	48.4	29.1	21.3	21.3
62.5°	5347.2	901.2	170.6	104.6	91.1	75.6	42.6	27.2	13.5	7.7	5.8
65°	4783.2	757.8	153.1	83.3	71.7	48.4	23.3	17.4	5.8	0.0	0.0
67.5°	3556.3	562.0	129.9	65.9	54.2	31.0	15.5	9.7	1.9	0.0	0.0
70°	1647.4	343.0	110.5	50.4	38.8	23.3	11.6	5.8	0.0	0.0	0.0
72.5°	472.9	215.1	91.1	36.8	27.2	19.3	9.7	3.9	1.9	0.0	0.0
75°	164.8	172.5	67.9	27.2	21.3	13.5	7.7	3.9	1.9	0.0	0.0
77.5°	98.8	139.5	42.6	23.3	17.4	11.6	7.7	3.9	1.9	1.9	0.0
80°	56.2	93.0	27.2	19.3	15.5	9.7	5.8	3.9	1.9	1.9	0.0
82.5°	31.0	44.6	21.3	17.4	13.5	9.7	5.8	3.9	1.9	1.9	1.9
85°	25.2	23.3	17.4	15.5	11.6	7.7	5.8	1.9	0.0	0.0	0.0
87.5°	19.3	15.5	15.5	15.5	11.6	7.7	5.8	1.9	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)