

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: P650929

Luminaire Tested: **GALN-SA5C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18007.5 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

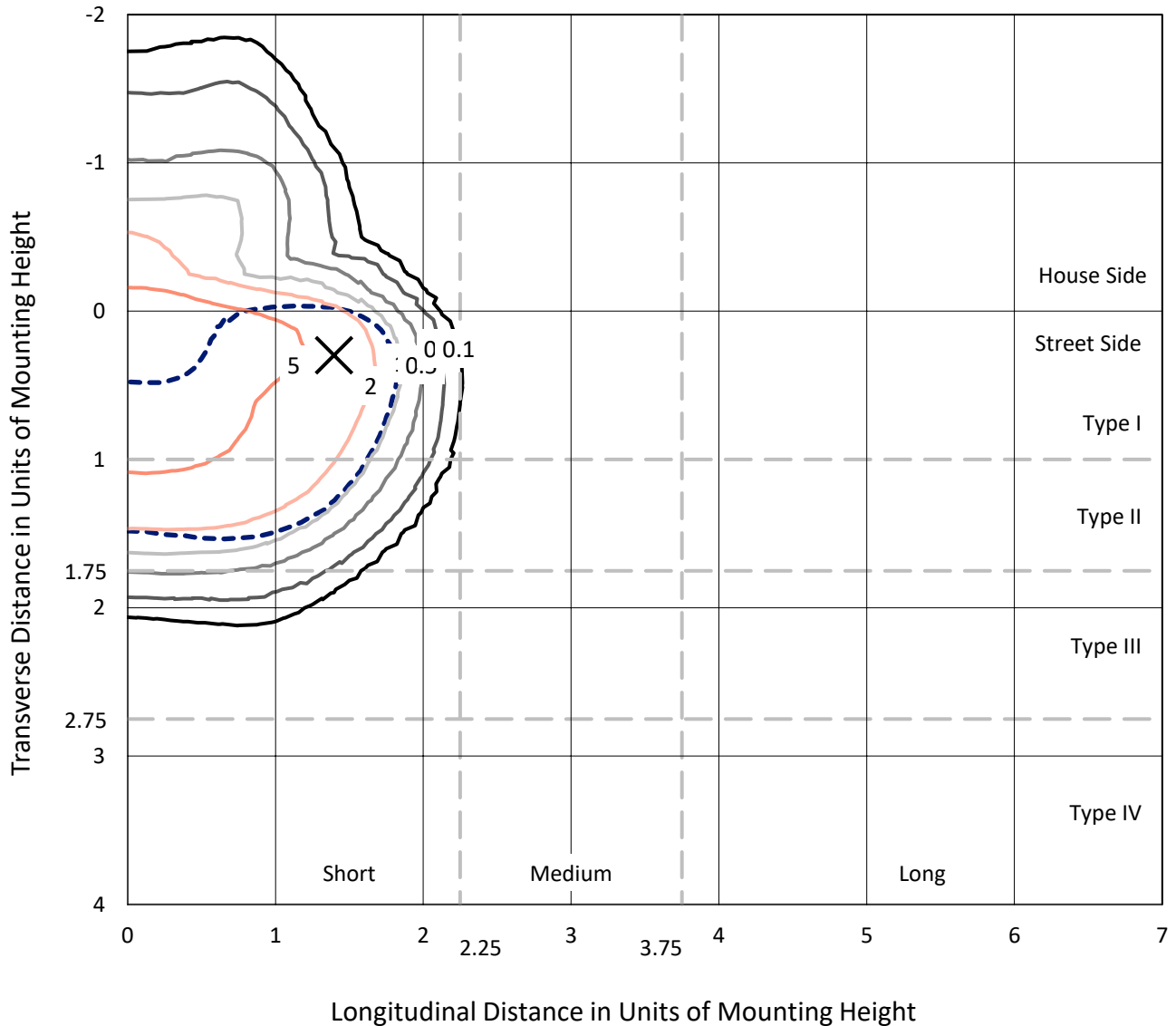
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

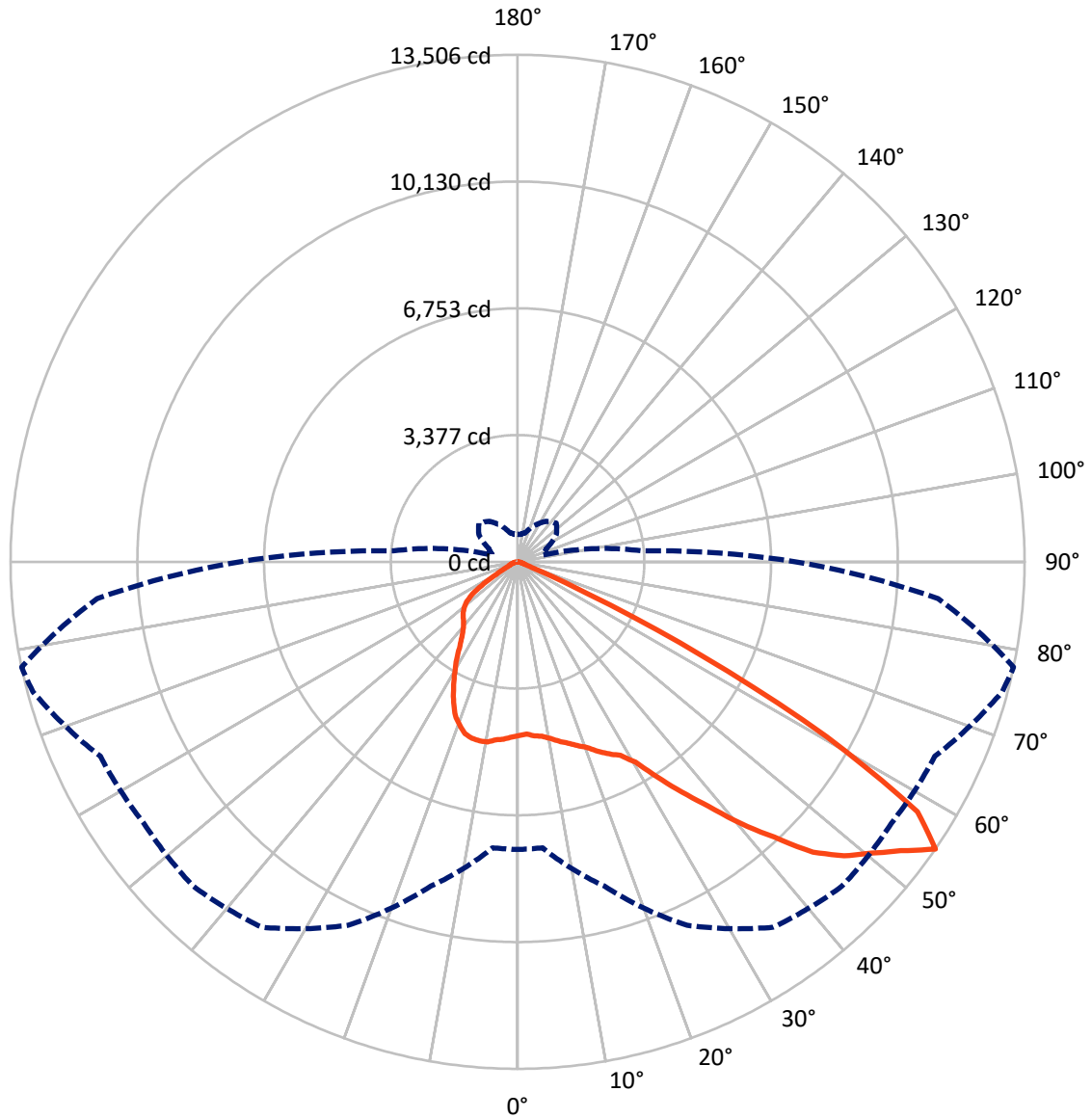
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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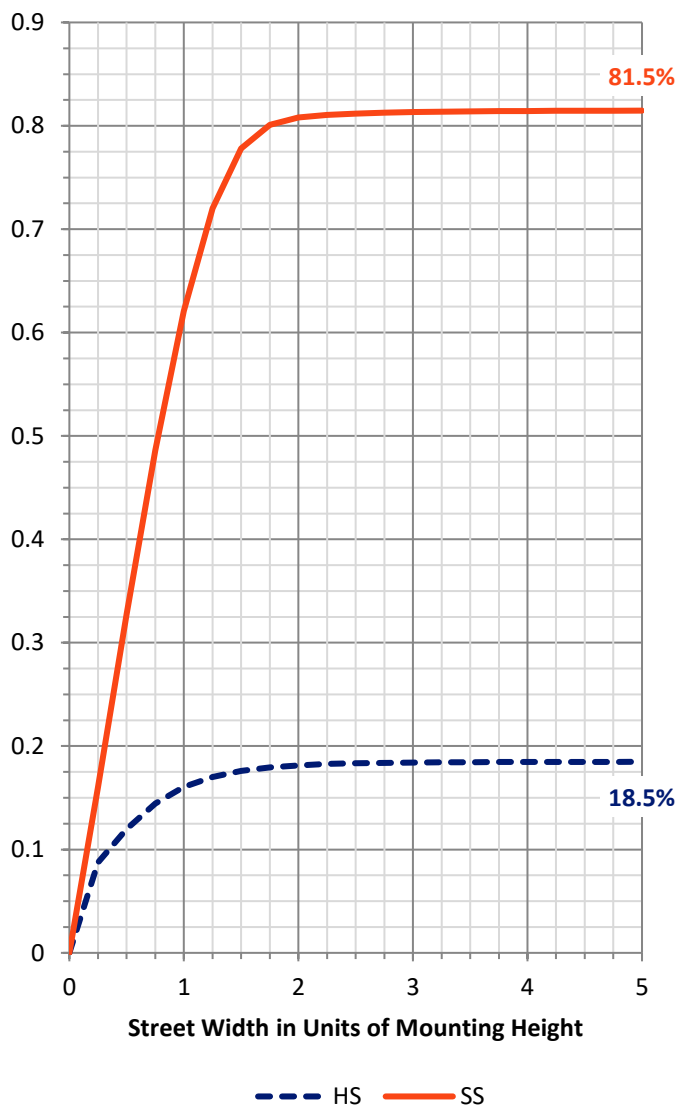
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3344.7	0.0	3344.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	14662.8	0.0	14662.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	18007.5	0.0	18007.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.8	2.3
10°-20°	1092.5	6.1
20°-30°	1915.0	10.6
30°-40°	3157.7	17.5
40°-50°	4594.8	25.5
50°-60°	5206.4	28.9
60°-70°	1488.6	8.3
70°-80°	115.6	0.6
80°-90°	24.0	0.1
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°	18007.5	100.0
0°-180°	18007.5	100.0

**Coefficient of Utilization**

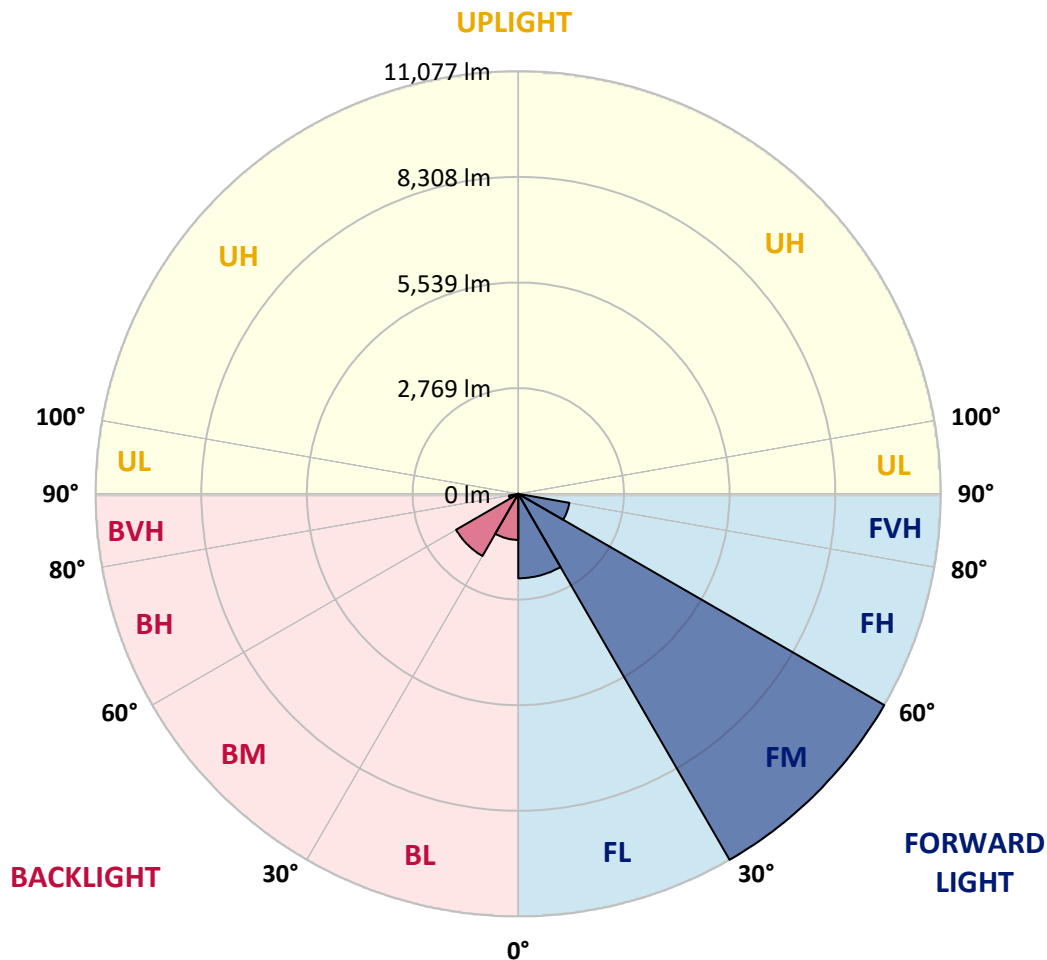


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2213.6	12.3			
FM	(30°-60°)	11077.4	61.5			
FH	(60°-80°)	1360.0	7.6			G1/1800
FVH	(80°-90°)	11.7	0.1			G1/100
BL	(0°-30°)	1206.8	6.7	B3/2500		
BM	(30°-60°)	1881.4	10.4	B2/2500		
BH	(60°-80°)	244.1	1.4	B1/500		G1/500
BVH	(80°-90°)	12.3	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7
2.5°	4352.8	4394.7	4401.1	4452.7	4449.5	4536.4	4562.1	4565.4	4623.3	4594.3	4668.4
5°	4230.5	4207.9	4198.4	4288.4	4314.2	4391.4	4455.9	4494.6	4613.6	4655.5	4732.7
7.5°	4121.1	4121.1	4127.5	4207.9	4198.4	4298.1	4365.7	4484.9	4658.7	4694.1	4787.5
10°	4014.8	3976.2	4024.4	4108.2	4179.0	4224.1	4365.7	4478.4	4681.3	4784.3	4913.0
12.5°	3960.1	3979.4	3985.8	4047.0	4124.3	4259.5	4336.8	4523.5	4842.2	4903.4	5041.9
15°	4304.6	4265.9	4172.5	4117.8	4182.2	4246.6	4439.8	4629.7	4925.9	5012.9	5167.4
17.5°	4703.8	4671.6	4594.3	4446.2	4301.4	4420.5	4571.8	4745.7	5016.1	5144.9	5373.5
20°	5225.4	5173.8	5096.5	4806.8	4681.3	4552.5	4713.5	4919.5	5164.2	5280.1	5515.1
22.5°	5846.7	5846.7	5672.9	5321.9	5061.1	4938.9	5006.4	5125.6	5328.4	5486.2	5718.0
25°	6493.9	6474.5	6316.8	5953.0	5511.9	5367.0	5444.3	5528.0	5582.7	5669.7	5824.2
27.5°	7234.4	7121.7	6922.1	6519.6	6130.0	5849.9	5933.7	5859.6	5792.0	5837.0	6059.2
30°	7736.6	7807.4	7553.1	7166.7	6799.7	6487.4	6503.5	6439.1	6130.0	6194.5	6326.4
32.5°	8258.2	8303.3	8161.6	7949.1	7582.1	7218.3	7086.3	7031.5	6799.7	6828.7	6699.9
35°	8692.8	8779.8	8654.2	8560.8	8454.6	8161.6	7797.8	7974.9	7601.4	7530.6	7195.8
37.5°	9092.1	9066.3	9214.4	9117.8	9095.2	8889.2	8490.0	8525.4	8274.3	8258.2	7871.8
40°	9449.4	9455.9	9658.7	9703.8	9613.6	9246.6	8667.1	8947.1	9150.0	9169.3	8673.5
42.5°	9745.6	9832.6	10006.4	10370.2	10235.0	9623.3	8850.6	9156.5	9909.8	10028.9	9433.3
45°	10003.2	10180.3	10396.0	10721.2	10643.9	10157.8	9307.8	9587.9	10721.2	11033.4	10148.1
47.5°	10019.3	10251.1	10486.1	10969.1	11065.6	10444.3	9781.1	10270.4	11365.1	11703.1	10669.7
50°	9954.9	10077.3	10547.3	11072.1	11291.0	10911.1	10444.3	10843.5	11989.6	12202.2	10933.7
52.5°	9191.9	9285.2	10228.6	11168.6	11696.7	11439.1	11323.2	11642.0	12627.1	12784.9	11181.5
55°	7662.6	7646.5	8944.0	10682.6	11883.4	12221.5	12150.7	12263.3	13364.4	13506.1	11242.7
57.5°	5241.4	5534.5	6654.8	8895.7	10740.5	12038.0	12112.0	11925.3	12504.8	12559.5	9800.3
60°	2826.8	2949.1	3850.6	5936.9	8177.7	9810.0	10003.2	9665.1	9620.0	9465.5	6996.1
62.5°	1123.7	1184.8	1696.7	2939.5	4455.9	5962.6	6378.0	6239.5	5943.3	5537.6	3622.0
65°	534.5	573.1	843.5	1374.8	1976.9	2485.5	2900.9	3029.6	2234.4	2012.3	1194.5
67.5°	363.8	392.7	614.9	785.6	705.1	737.3	959.4	891.8	524.8	447.5	331.6
70°	276.9	296.2	492.6	534.5	315.5	222.1	247.9	231.8	215.7	218.9	215.7
72.5°	196.4	212.5	360.6	315.5	138.4	103.0	132.0	157.8	157.8	157.8	154.6
75°	119.1	135.2	209.2	122.4	54.7	54.7	83.7	106.2	112.7	115.9	109.5
77.5°	61.1	77.3	70.8	35.4	35.4	41.9	61.1	74.0	80.5	80.5	77.3
80°	12.9	12.9	12.9	19.3	35.4	45.1	61.1	67.6	77.3	77.3	70.8
82.5°	0.0	3.2	9.7	19.3	32.2	41.9	57.9	67.6	77.3	80.5	74.0
85°	0.0	3.2	6.5	12.9	22.5	25.7	22.5	19.3	19.3	19.3	19.3
87.5°	0.0	0.0	3.2	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7	4629.7
2.5°	4674.8	4684.5	4668.4	4665.1	4652.2	4690.9	4597.6	4575.0	4633.0	4578.2	4591.1
5°	4736.0	4758.5	4729.5	4681.3	4610.4	4500.9	4407.6	4285.2	4227.3	4185.4	4179.0
7.5°	4781.1	4797.1	4768.2	4613.6	4401.1	4124.3	3918.2	3766.9	3647.8	3612.3	3554.4
10°	4964.6	4967.8	4822.9	4481.6	4066.3	3702.5	3387.0	3155.2	3036.0	2962.0	2929.8
12.5°	5087.0	5080.5	4787.5	4220.8	3667.1	3184.1	2823.6	2543.4	2434.0	2398.6	2376.1
15°	5241.4	5206.0	4703.8	3953.6	3152.0	2630.4	2305.2	2112.0	2102.4	2079.9	2102.4
17.5°	5363.8	5264.0	4581.4	3467.4	2659.3	2166.8	1954.3	1967.2	1992.9	2015.5	2018.7
20°	5563.4	5357.3	4301.4	3042.5	2202.2	1857.7	1854.5	1912.4	1976.9	2002.6	2028.3
22.5°	5714.8	5396.0	4001.9	2588.5	1828.8	1732.1	1786.9	1873.7	1922.1	1947.8	1986.4
25°	5769.4	5289.7	3602.7	2134.5	1648.4	1674.2	1757.9	1815.8	1877.0	1906.0	1889.9
27.5°	5824.2	5235.1	3126.2	1757.9	1551.8	1635.6	1706.4	1764.3	1783.7	1822.3	1848.0
30°	5956.2	5045.1	2698.0	1519.6	1503.5	1609.8	1661.3	1680.7	1732.1	1754.7	1754.7
32.5°	6062.4	4971.0	2244.0	1406.9	1497.1	1622.6	1629.1	1629.1	1635.6	1619.4	1613.0
35°	6281.3	4716.7	1838.3	1339.4	1493.9	1625.9	1642.0	1587.2	1439.1	1381.2	1365.1
37.5°	6551.8	4552.5	1538.9	1323.2	1516.4	1664.5	1690.2	1484.2	1291.0	1197.7	1181.6
40°	6880.2	4436.5	1342.6	1316.8	1568.0	1754.7	1677.4	1403.7	1152.6	1017.4	1011.0
42.5°	7263.4	4330.3	1210.5	1313.6	1632.3	1848.0	1664.5	1336.1	1011.0	920.8	933.7
45°	7569.2	4272.4	1120.4	1291.0	1654.8	1902.8	1674.2	1217.0	953.0	895.1	901.5
47.5°	7807.4	4150.0	1046.4	1252.4	1651.6	1922.1	1587.2	1168.7	924.0	940.2	956.2
50°	7813.9	3985.8	953.0	1168.7	1603.4	1886.7	1487.5	1123.7	917.6	985.1	1017.4
52.5°	7726.9	3754.1	853.2	1049.6	1490.7	1764.3	1397.3	1104.3	888.6	882.1	920.8
55°	7417.9	3319.3	685.8	850.0	1258.8	1455.3	1316.8	1068.9	801.6	727.6	734.0
57.5°	5994.8	2379.3	505.4	608.5	891.8	1065.7	1188.0	1052.8	721.2	618.1	621.4
60°	3712.2	1349.0	370.2	415.3	550.5	647.1	962.6	978.8	644.0	521.6	515.1
62.5°	1906.0	666.4	286.5	293.0	338.1	379.9	660.0	821.0	582.7	495.9	495.9
65°	637.5	328.4	251.1	225.4	225.4	235.1	399.2	569.9	492.6	415.3	415.3
67.5°	273.7	244.6	218.9	196.4	180.3	170.6	225.4	331.6	367.0	315.5	302.7
70°	212.5	206.0	190.0	164.2	141.6	128.8	132.0	170.6	209.2	202.8	196.4
72.5°	157.8	157.8	151.3	128.8	109.5	93.4	87.0	90.2	99.8	103.0	106.2
75°	109.5	112.7	112.7	99.8	80.5	67.6	57.9	48.3	38.6	32.2	29.0
77.5°	74.0	77.3	83.7	74.0	61.1	45.1	35.4	25.7	16.1	6.5	6.5
80°	64.4	74.0	80.5	74.0	64.4	48.3	35.4	19.3	9.7	0.0	0.0
82.5°	67.6	74.0	83.7	70.8	61.1	45.1	35.4	22.5	9.7	3.2	0.0
85°	16.1	16.1	19.3	22.5	29.0	32.2	25.7	16.1	9.7	3.2	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	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)