

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: P529623

Luminaire Tested: **GALN-SA4D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529623  
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-SA4D-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA 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: 17338 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

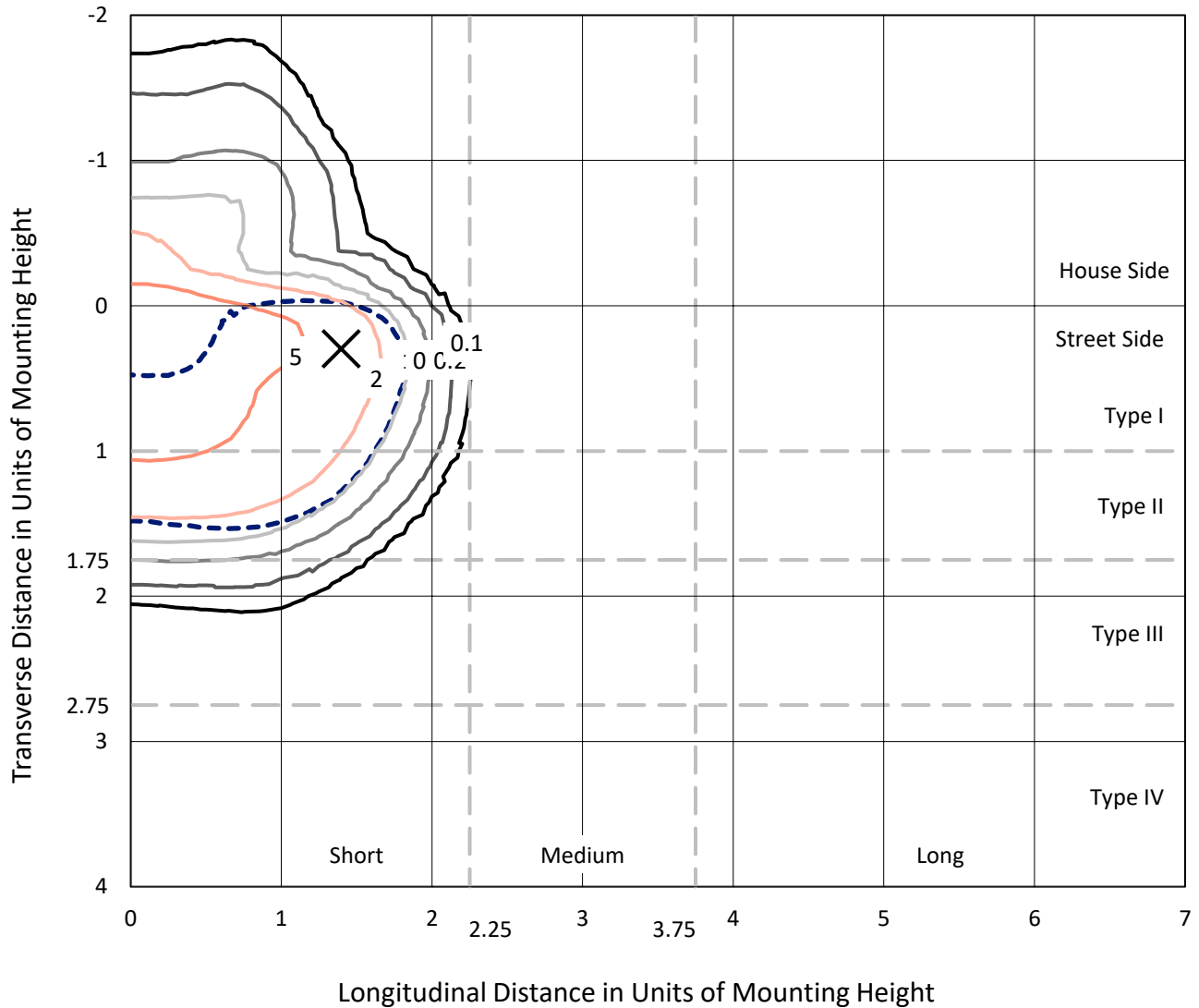
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

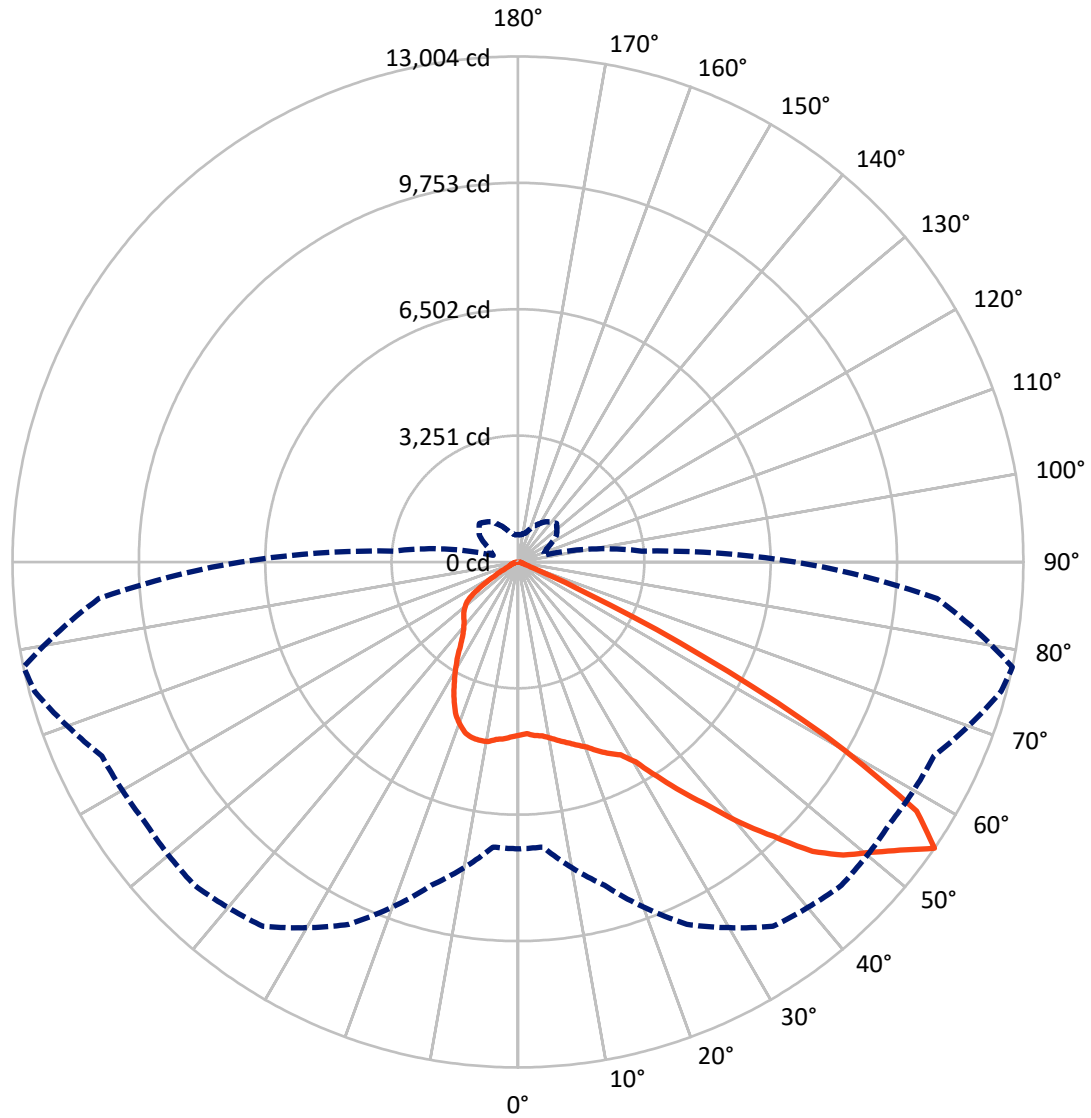
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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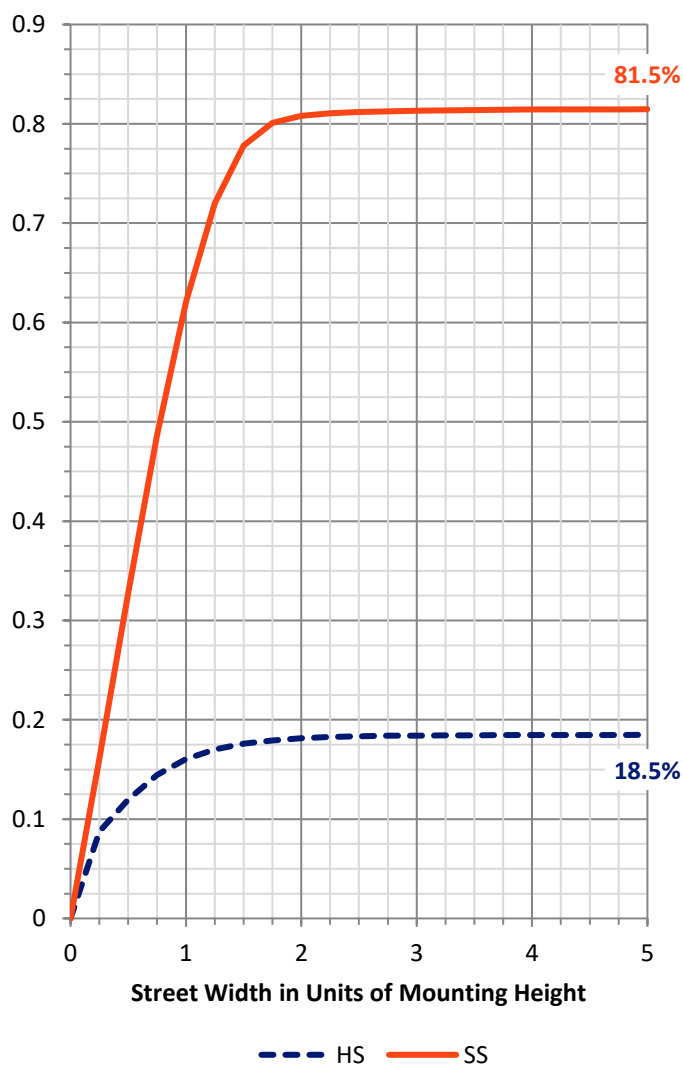
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3220.3	0.0	3220.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	14117.7	0.0	14117.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	17338.0	0.0	17338.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.5	2.3
10°-20°	1051.9	6.1
20°-30°	1843.8	10.6
30°-40°	3040.3	17.5
40°-50°	4424.0	25.5
50°-60°	5012.8	28.9
60°-70°	1433.3	8.3
70°-80°	111.3	0.6
80°-90°	23.2	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°	17338.0	100.0
0°-180°	17338.0	100.0

**Coefficient of Utilization**

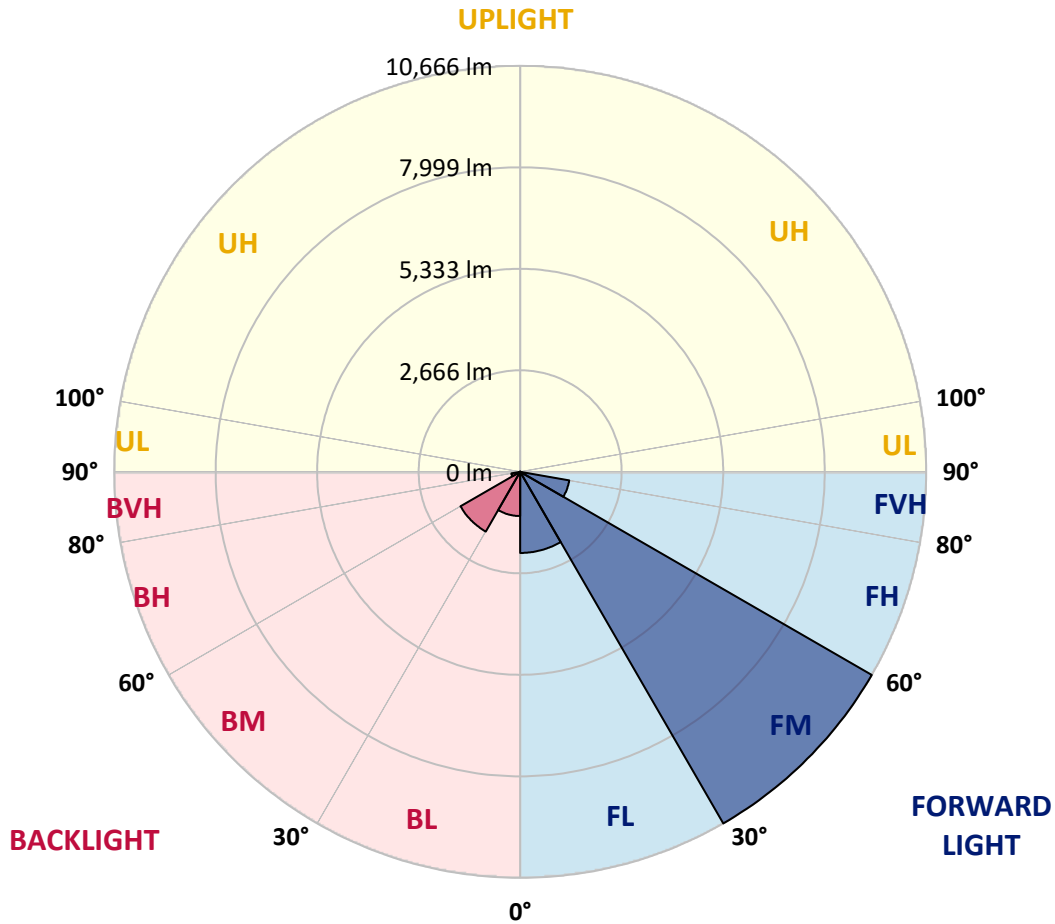


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.3	12.3			
FM (30°-60°)	10665.6	61.5			
FH (60°-80°)	1309.5	7.6			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	1161.9	6.7	B3/2500		
BM (30°-60°)	1811.5	10.4	B2/2500		
BH (60°-80°)	235.1	1.4	B1/500		G1/500
BVH (80°-90°)	11.9	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°	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6
2.5°	4191.0	4231.3	4237.5	4287.1	4284.0	4367.7	4392.5	4395.6	4451.4	4423.5	4494.8
5°	4073.2	4051.5	4042.2	4129.0	4153.8	4228.2	4290.2	4327.4	4442.1	4482.4	4556.8
7.5°	3967.8	3967.8	3974.0	4051.5	4042.2	4138.3	4203.4	4318.1	4485.5	4519.6	4609.5
10°	3865.5	3828.3	3874.8	3955.4	4023.6	4067.0	4203.4	4311.9	4507.2	4606.4	4730.4
12.5°	3812.8	3831.4	3837.6	3896.5	3970.9	4101.1	4175.5	4355.3	4662.2	4721.1	4854.4
15°	4144.5	4107.3	4017.4	3964.7	4026.7	4088.7	4274.7	4457.6	4742.8	4826.5	4975.3
17.5°	4528.9	4497.9	4423.5	4280.9	4141.4	4256.1	4401.8	4569.2	4829.6	4953.6	5173.7
20°	5031.1	4981.5	4907.1	4628.1	4507.2	4383.2	4538.2	4736.6	4972.2	5083.8	5310.1
22.5°	5629.4	5629.4	5462.0	5124.1	4873.0	4755.2	4820.3	4935.0	5130.3	5282.2	5505.4
25°	6252.4	6233.8	6081.9	5731.7	5307.0	5167.5	5241.9	5322.5	5375.2	5458.9	5607.7
27.5°	6965.4	6856.9	6664.7	6277.2	5902.1	5632.5	5713.1	5641.8	5576.7	5620.1	5834.0
30°	7449.0	7517.2	7272.3	6900.3	6546.9	6246.2	6261.7	6199.7	5902.1	5964.1	6091.2
32.5°	7951.2	7994.6	7858.2	7653.6	7300.2	6949.9	6822.8	6770.1	6546.9	6574.8	6450.8
35°	8369.6	8453.3	8332.4	8242.5	8140.3	7858.2	7507.9	7678.4	7318.8	7250.6	6928.2
37.5°	8754.0	8729.2	8871.8	8778.8	8757.1	8558.7	8174.4	8208.5	7966.7	7951.2	7579.2
40°	9098.1	9104.3	9299.6	9343.0	9256.2	8902.8	8344.8	8614.5	8809.8	8828.4	8351.0
42.5°	9383.3	9467.0	9634.4	9984.7	9854.5	9265.5	8521.5	8816.0	9541.4	9656.1	9082.6
45°	9631.3	9801.8	10009.5	10322.6	10248.2	9780.1	8961.7	9231.4	10322.6	10623.2	9770.8
47.5°	9646.8	9870.0	10096.3	10561.2	10654.2	10056.0	9417.4	9888.6	10942.5	11268.0	10273.0
50°	9584.8	9702.6	10155.2	10660.4	10871.2	10505.5	10056.0	10440.4	11543.9	11748.5	10527.2
52.5°	8850.1	8940.0	9848.3	10753.4	11261.8	11013.8	10902.2	11209.1	12157.7	12309.6	10765.8
55°	7377.7	7362.2	8611.4	10285.4	11441.6	11767.1	11698.9	11807.4	12867.6	13003.9	10824.7
57.5°	5046.6	5328.7	6407.4	8564.9	10341.2	11590.4	11661.7	11481.9	12039.9	12092.6	9436.0
60°	2721.7	2839.5	3707.4	5716.2	7873.7	9445.3	9631.3	9305.8	9262.4	9113.6	6736.0
62.5°	1081.9	1140.8	1633.6	2830.2	4290.2	5741.0	6140.8	6007.5	5722.4	5331.8	3487.4
65°	514.6	551.8	812.2	1323.6	1903.3	2393.1	2793.0	2917.0	2151.3	1937.4	1150.1
67.5°	350.3	378.2	592.1	756.4	678.9	709.9	923.8	858.7	505.3	430.9	319.3
70°	266.6	285.2	474.3	514.6	303.8	213.9	238.7	223.2	207.7	210.8	207.7
72.5°	189.1	204.6	347.2	303.8	133.3	99.2	127.1	151.9	151.9	151.9	148.8
75°	114.7	130.2	201.5	117.8	52.7	52.7	80.6	102.3	108.5	111.6	105.4
77.5°	58.9	74.4	68.2	34.1	34.1	40.3	58.9	71.3	77.5	77.5	74.4
80°	12.4	12.4	12.4	18.6	34.1	43.4	58.9	65.1	74.4	74.4	68.2
82.5°	0.0	3.1	9.3	18.6	31.0	40.3	55.8	65.1	74.4	77.5	71.3
85°	0.0	3.1	6.2	12.4	21.7	24.8	21.7	18.6	18.6	18.6	18.6
87.5°	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6	4457.6
2.5°	4501.0	4510.3	4494.8	4491.7	4479.3	4516.5	4426.6	4404.9	4460.7	4408.0	4420.4
5°	4559.9	4581.6	4553.7	4507.2	4439.0	4333.6	4243.7	4125.9	4070.1	4029.8	4023.6
7.5°	4603.3	4618.8	4590.9	4442.1	4237.5	3970.9	3772.5	3626.8	3512.2	3478.1	3422.3
10°	4780.0	4783.1	4643.6	4315.0	3915.1	3564.8	3261.1	3037.9	2923.2	2851.9	2820.9
12.5°	4897.8	4891.6	4609.5	4063.9	3530.7	3065.8	2718.6	2448.9	2343.5	2309.4	2287.7
15°	5046.6	5012.5	4528.9	3806.6	3034.8	2532.6	2219.5	2033.5	2024.2	2002.5	2024.2
17.5°	5164.4	5068.3	4411.1	3338.6	2560.5	2086.2	1881.6	1894.0	1918.8	1940.5	1943.6
20°	5356.6	5158.2	4141.4	2929.4	2120.3	1788.6	1785.5	1841.3	1903.3	1928.1	1952.9
22.5°	5502.3	5195.4	3853.1	2492.3	1760.7	1667.7	1720.4	1804.1	1850.6	1875.4	1912.6
25°	5555.0	5093.1	3468.8	2055.2	1587.1	1611.9	1692.5	1748.3	1807.2	1835.1	1819.6
27.5°	5607.7	5040.4	3010.0	1692.5	1494.1	1574.7	1642.9	1698.7	1717.3	1754.5	1779.3
30°	5734.8	4857.5	2597.7	1463.1	1447.6	1549.9	1599.5	1618.1	1667.7	1689.4	1689.4
32.5°	5837.1	4786.2	2160.6	1354.6	1441.4	1562.3	1568.5	1568.5	1574.7	1559.2	1553.0
35°	6047.8	4541.3	1770.0	1289.5	1438.3	1565.4	1580.9	1528.2	1385.6	1329.8	1314.3
37.5°	6308.2	4383.2	1481.7	1274.0	1460.0	1602.6	1627.4	1429.0	1243.0	1153.2	1137.7
40°	6624.4	4271.6	1292.6	1267.8	1509.6	1689.4	1615.0	1351.5	1109.8	979.6	973.4
42.5°	6993.3	4169.3	1165.6	1264.7	1571.6	1779.3	1602.6	1286.4	973.4	886.6	899.0
45°	7287.8	4113.5	1078.8	1243.0	1593.3	1832.0	1611.9	1171.8	917.6	861.8	868.0
47.5°	7517.2	3995.7	1007.5	1205.8	1590.2	1850.6	1528.2	1125.3	889.7	905.2	920.7
50°	7523.4	3837.6	917.6	1125.3	1543.7	1816.5	1432.1	1081.9	883.5	948.6	979.6
52.5°	7439.7	3614.4	821.5	1010.6	1435.2	1698.7	1345.3	1063.3	855.6	849.4	886.6
55°	7142.1	3196.0	660.3	818.4	1212.0	1401.1	1267.8	1029.2	771.9	700.6	706.8
57.5°	5772.0	2290.8	486.7	585.9	858.7	1026.1	1143.9	1013.7	694.4	595.2	598.3
60°	3574.1	1298.8	356.5	399.9	530.1	623.1	926.9	942.4	620.0	502.2	496.0
62.5°	1835.1	641.7	275.9	282.1	325.5	365.8	635.5	790.5	561.1	477.4	477.4
65°	613.8	316.2	241.8	217.0	217.0	226.3	384.4	548.7	474.3	399.9	399.9
67.5°	263.5	235.6	210.8	189.1	173.6	164.3	217.0	319.3	353.4	303.8	291.4
70°	204.6	198.4	182.9	158.1	136.4	124.0	127.1	164.3	201.5	195.3	189.1
72.5°	151.9	151.9	145.7	124.0	105.4	89.9	83.7	86.8	96.1	99.2	102.3
75°	105.4	108.5	108.5	96.1	77.5	65.1	55.8	46.5	37.2	31.0	27.9
77.5°	71.3	74.4	80.6	71.3	58.9	43.4	34.1	24.8	15.5	6.2	6.2
80°	62.0	71.3	77.5	71.3	62.0	46.5	34.1	18.6	9.3	0.0	0.0
82.5°	65.1	71.3	80.6	68.2	58.9	43.4	34.1	21.7	9.3	3.1	0.0
85°	15.5	15.5	18.6	21.7	27.9	31.0	24.8	15.5	9.3	3.1	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	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)