

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: P530663

Luminaire Tested: **GALN-SA5D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530663  
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-SA5D-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 17320 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

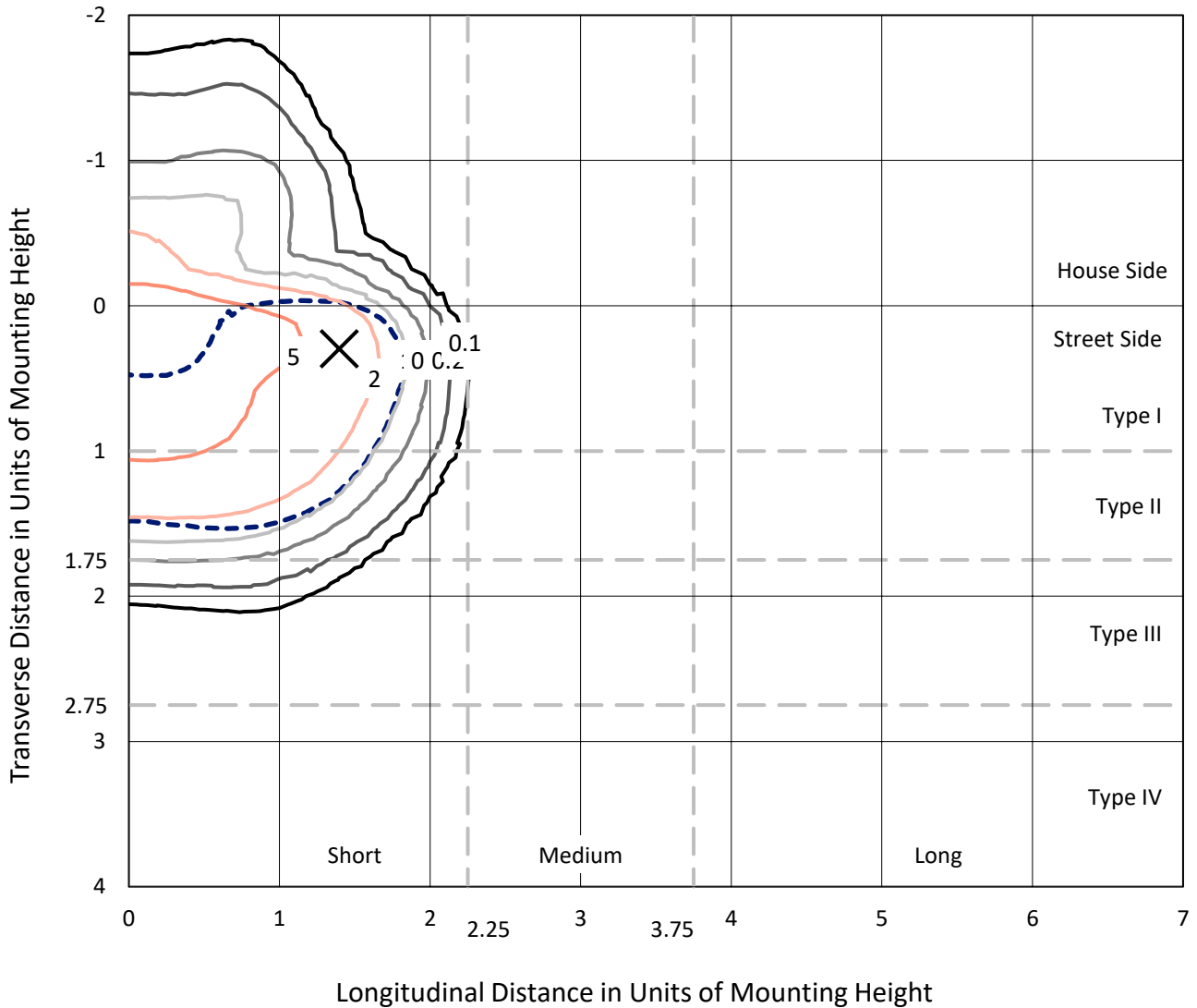
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

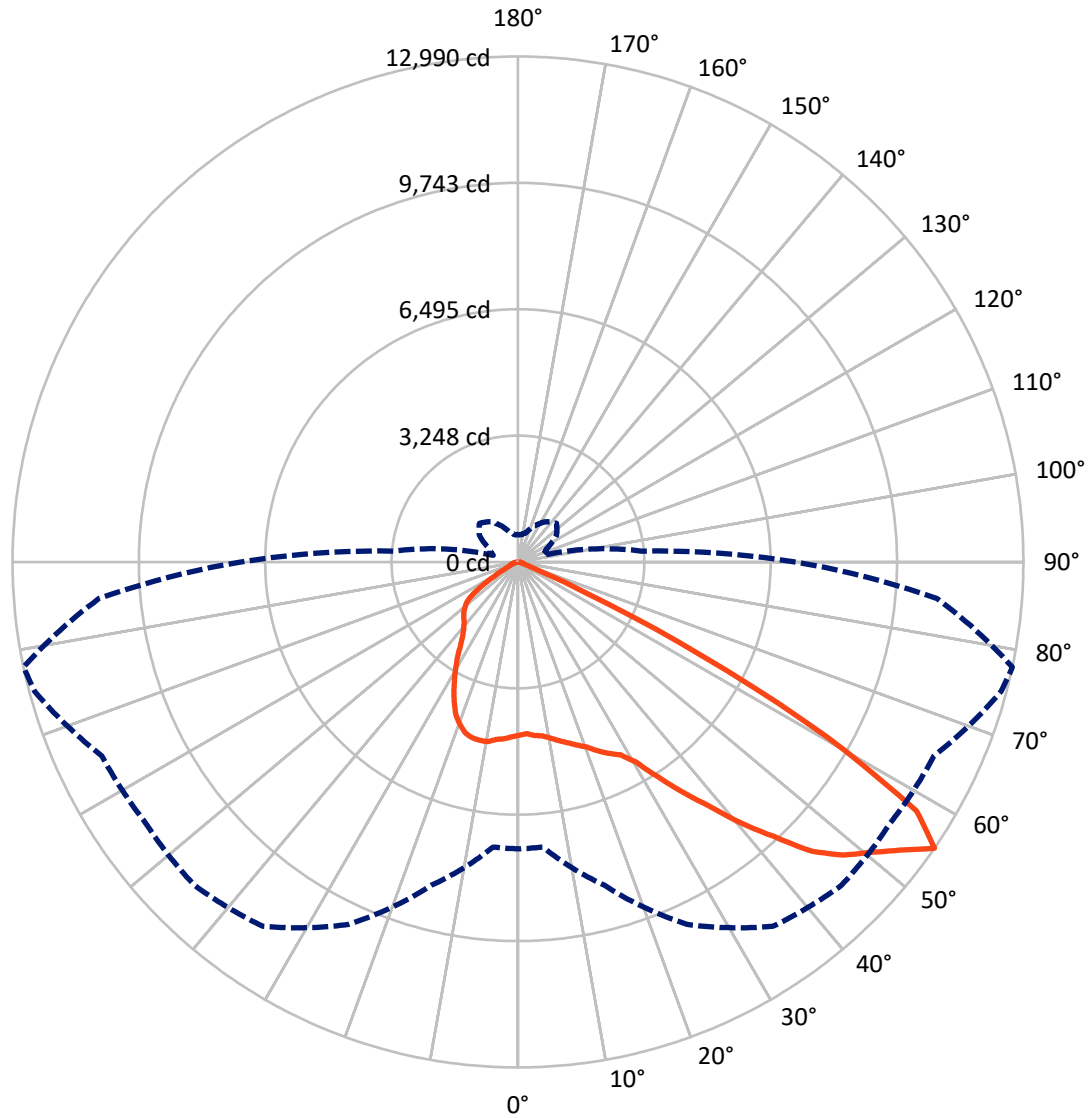
✕ Max cd  
 - - - 1/2 Max cd



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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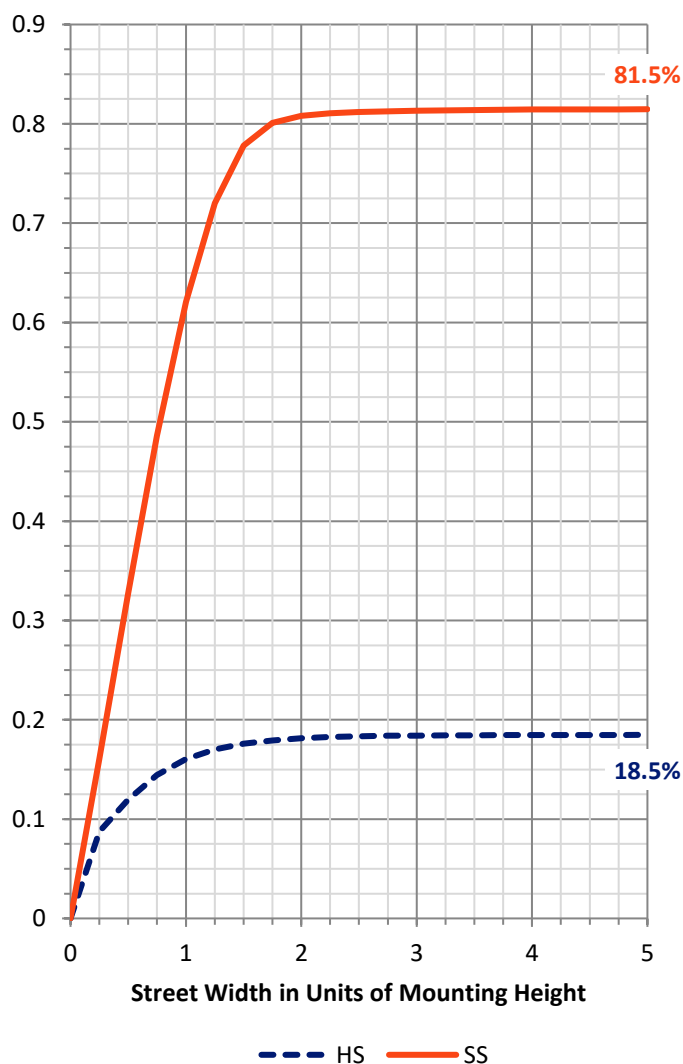
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3217.0	0.0	3217.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	14103.0	0.0	14103.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	17320.0	0.0	17320.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.1	2.3
10°-20°	1050.8	6.1
20°-30°	1841.9	10.6
30°-40°	3037.1	17.5
40°-50°	4419.4	25.5
50°-60°	5007.6	28.9
60°-70°	1431.8	8.3
70°-80°	111.2	0.6
80°-90°	23.1	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°	17320.0	100.0
0°-180°	17320.0	100.0

**Coefficient of Utilization**

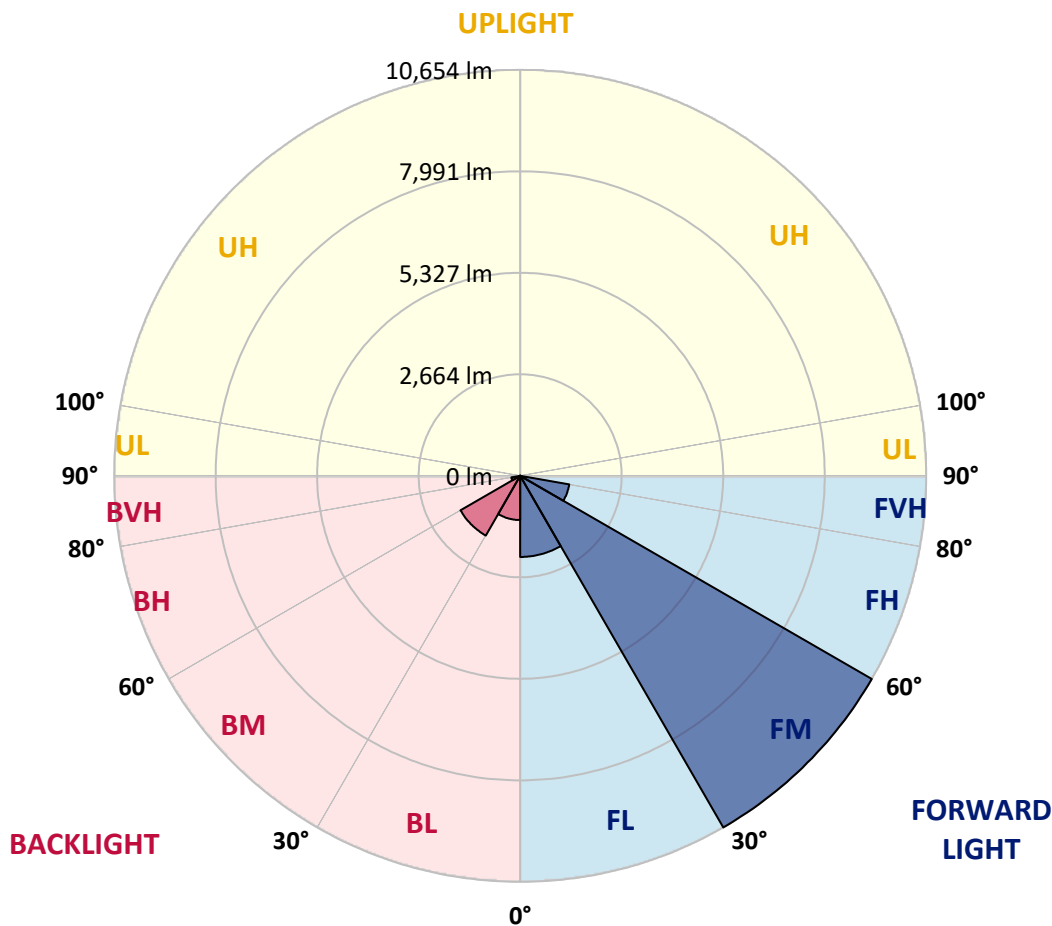


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.1	12.3			
FM (30°-60°)	10654.5	61.5			
FH (60°-80°)	1308.1	7.6			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	1160.7	6.7	B3/2500		
BM (30°-60°)	1809.6	10.4	B2/2500		
BH (60°-80°)	234.8	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°	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0
2.5°	4186.7	4226.9	4233.1	4282.7	4279.6	4363.2	4388.0	4391.0	4446.8	4418.9	4490.1
5°	4069.0	4047.3	4038.0	4124.7	4149.5	4223.8	4285.8	4322.9	4437.5	4477.8	4552.1
7.5°	3963.7	3963.7	3969.9	4047.3	4038.0	4134.0	4199.1	4313.6	4480.9	4514.9	4604.7
10°	3861.5	3824.4	3870.8	3951.3	4019.5	4062.8	4199.1	4307.4	4502.5	4601.6	4725.5
12.5°	3808.9	3827.5	3833.7	3892.5	3966.8	4096.9	4171.2	4350.8	4657.4	4716.2	4849.4
15°	4140.2	4103.1	4013.3	3960.6	4022.5	4084.5	4270.3	4453.0	4737.9	4821.5	4970.1
17.5°	4524.2	4493.2	4418.9	4276.5	4137.1	4251.7	4397.2	4564.5	4824.6	4948.4	5168.3
20°	5025.9	4976.3	4902.0	4623.3	4502.5	4378.7	4533.5	4731.7	4967.0	5078.5	5304.6
22.5°	5623.5	5623.5	5456.3	5118.8	4867.9	4750.3	4815.3	4929.9	5125.0	5276.7	5499.6
25°	6245.9	6227.4	6075.6	5725.7	5301.5	5162.1	5236.4	5316.9	5369.6	5453.2	5601.8
27.5°	6958.2	6849.8	6657.8	6270.7	5896.0	5626.6	5707.1	5635.9	5570.9	5614.2	5827.9
30°	7441.2	7509.4	7264.7	6893.1	6540.1	6239.7	6255.2	6193.3	5896.0	5958.0	6084.9
32.5°	7942.9	7986.3	7850.0	7645.6	7292.6	6942.7	6815.7	6763.1	6540.1	6568.0	6444.1
35°	8361.0	8444.6	8323.8	8234.0	8131.8	7850.0	7500.1	7670.4	7311.2	7243.1	6921.0
37.5°	8744.9	8720.2	8862.6	8769.7	8748.0	8549.8	8165.9	8199.9	7958.4	7942.9	7571.3
40°	9088.7	9094.9	9289.9	9333.3	9246.6	8893.6	8336.2	8605.6	8800.7	8819.3	8342.4
42.5°	9373.6	9457.2	9624.4	9974.3	9844.2	9255.9	8512.7	8806.9	9531.5	9646.1	9073.2
45°	9621.3	9791.6	9999.1	10311.8	10237.5	9769.9	8952.4	9221.8	10311.8	10612.2	9760.6
47.5°	9636.8	9859.7	10085.8	10550.3	10643.2	10045.5	9407.6	9878.3	10931.2	11256.3	10262.3
50°	9574.8	9692.5	10144.6	10649.4	10860.0	10494.5	10045.5	10429.5	11531.9	11736.3	10516.2
52.5°	8840.9	8930.7	9838.1	10742.3	11250.1	11002.4	10890.9	11197.5	12145.1	12296.8	10754.7
55°	7370.0	7354.5	8602.5	10274.7	11429.7	11754.9	11686.8	11795.1	12854.2	12990.4	10813.5
57.5°	5041.3	5323.1	6400.8	8556.0	10330.4	11578.4	11649.6	11470.0	12027.4	12080.0	9426.2
60°	2718.9	2836.5	3703.6	5710.2	7865.5	9435.5	9621.3	9296.1	9252.8	9104.1	6729.0
62.5°	1080.7	1139.6	1631.9	2827.2	4285.8	5735.0	6134.5	6001.3	5716.4	5326.2	3483.7
65°	514.0	551.2	811.3	1322.3	1901.3	2390.6	2790.1	2913.9	2149.1	1935.4	1148.9
67.5°	349.9	377.8	591.5	755.6	678.2	709.1	922.8	857.8	504.8	430.4	319.0
70°	266.3	284.9	473.8	514.0	303.5	213.7	238.4	223.0	207.5	210.6	207.5
72.5°	188.9	204.4	346.8	303.5	133.2	99.1	127.0	151.7	151.7	151.7	148.6
75°	114.6	130.1	201.3	117.7	52.6	52.6	80.5	102.2	108.4	111.5	105.3
77.5°	58.8	74.3	68.1	34.1	34.1	40.3	58.8	71.2	77.4	77.4	74.3
80°	12.4	12.4	12.4	18.6	34.1	43.4	58.8	65.0	74.3	74.3	68.1
82.5°	0.0	3.1	9.3	18.6	31.0	40.3	55.7	65.0	74.3	77.4	71.2
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°	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0	4453.0
2.5°	4496.3	4505.6	4490.1	4487.0	4474.7	4511.8	4422.0	4400.3	4456.1	4403.4	4415.8
5°	4555.2	4576.8	4549.0	4502.5	4434.4	4329.1	4239.3	4121.6	4065.9	4025.6	4019.5
7.5°	4598.5	4614.0	4586.1	4437.5	4233.1	3966.8	3768.6	3623.1	3508.5	3474.4	3418.7
10°	4775.0	4778.1	4638.8	4310.5	3911.1	3561.1	3257.7	3034.7	2920.1	2848.9	2818.0
12.5°	4892.7	4886.5	4604.7	4059.7	3527.1	3062.6	2715.8	2446.4	2341.1	2307.0	2285.3
15°	5041.3	5007.3	4524.2	3802.7	3031.6	2530.0	2217.2	2031.4	2022.1	2000.4	2022.1
17.5°	5159.0	5063.0	4406.5	3335.1	2557.8	2084.0	1879.7	1892.1	1916.8	1938.5	1941.6
20°	5351.0	5152.8	4137.1	2926.3	2118.1	1786.8	1783.7	1839.4	1901.3	1926.1	1950.9
22.5°	5496.6	5190.0	3849.1	2489.7	1758.9	1666.0	1718.6	1802.3	1848.7	1873.5	1910.6
25°	5549.2	5087.8	3465.2	2053.1	1585.5	1610.3	1690.8	1746.5	1805.3	1833.2	1817.7
27.5°	5601.8	5035.2	3006.8	1690.8	1492.6	1573.1	1641.2	1697.0	1715.5	1752.7	1777.5
30°	5728.8	4852.4	2595.0	1461.6	1446.1	1548.3	1597.9	1616.5	1666.0	1687.7	1687.7
32.5°	5831.0	4781.2	2158.4	1353.2	1439.9	1560.7	1566.9	1566.9	1573.1	1557.6	1551.4
35°	6041.6	4536.6	1768.2	1288.2	1436.8	1563.8	1579.3	1526.6	1384.2	1328.5	1313.0
37.5°	6301.7	4378.7	1480.2	1272.7	1458.5	1601.0	1625.7	1427.6	1241.8	1152.0	1136.5
40°	6617.5	4267.2	1291.3	1266.5	1508.1	1687.7	1613.4	1350.1	1108.6	978.5	972.3
42.5°	6986.0	4165.0	1164.3	1263.4	1570.0	1777.5	1601.0	1285.1	972.3	885.6	898.0
45°	7280.2	4109.3	1077.6	1241.8	1591.7	1830.1	1610.3	1170.5	916.6	860.9	867.1
47.5°	7509.4	3991.6	1006.4	1204.6	1588.6	1848.7	1526.6	1124.1	888.7	904.2	919.7
50°	7515.6	3833.7	916.6	1124.1	1542.1	1814.6	1430.7	1080.7	882.5	947.6	978.5
52.5°	7432.0	3610.7	820.6	1009.5	1433.7	1697.0	1343.9	1062.2	854.7	848.5	885.6
55°	7134.7	3192.6	659.6	817.5	1210.8	1399.7	1266.5	1028.1	771.1	699.8	706.0
57.5°	5766.0	2288.4	486.2	585.3	857.8	1025.0	1142.7	1012.6	693.6	594.6	597.7
60°	3570.4	1297.5	356.1	399.5	529.5	622.4	925.9	941.4	619.3	501.7	495.5
62.5°	1833.2	641.0	275.6	281.8	325.1	365.4	634.8	789.6	560.5	476.9	476.9
65°	613.1	315.9	241.5	216.8	216.8	226.1	384.0	548.1	473.8	399.5	399.5
67.5°	263.2	235.3	210.6	188.9	173.4	164.1	216.8	319.0	353.0	303.5	291.1
70°	204.4	198.2	182.7	157.9	136.3	123.9	127.0	164.1	201.3	195.1	188.9
72.5°	151.7	151.7	145.5	123.9	105.3	89.8	83.6	86.7	96.0	99.1	102.2
75°	105.3	108.4	108.4	96.0	77.4	65.0	55.7	46.4	37.2	31.0	27.9
77.5°	71.2	74.3	80.5	71.2	58.8	43.4	34.1	24.8	15.5	6.2	6.2
80°	61.9	71.2	77.4	71.2	61.9	46.4	34.1	18.6	9.3	0.0	0.0
82.5°	65.0	71.2	80.5	68.1	58.8	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)