

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: P647464

Luminaire Tested: **GALN-SA5D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647464  
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-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 18448.3 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

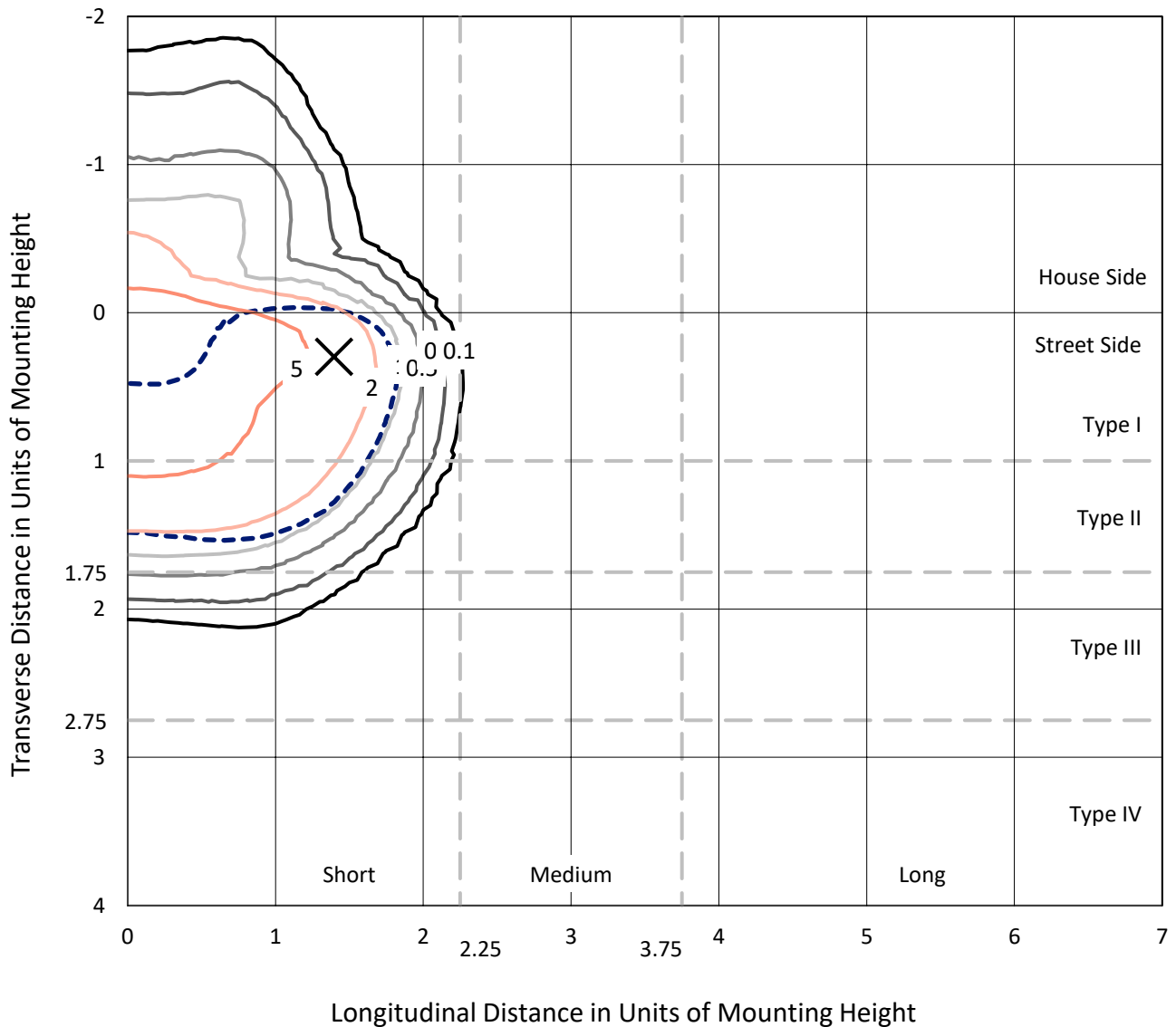
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

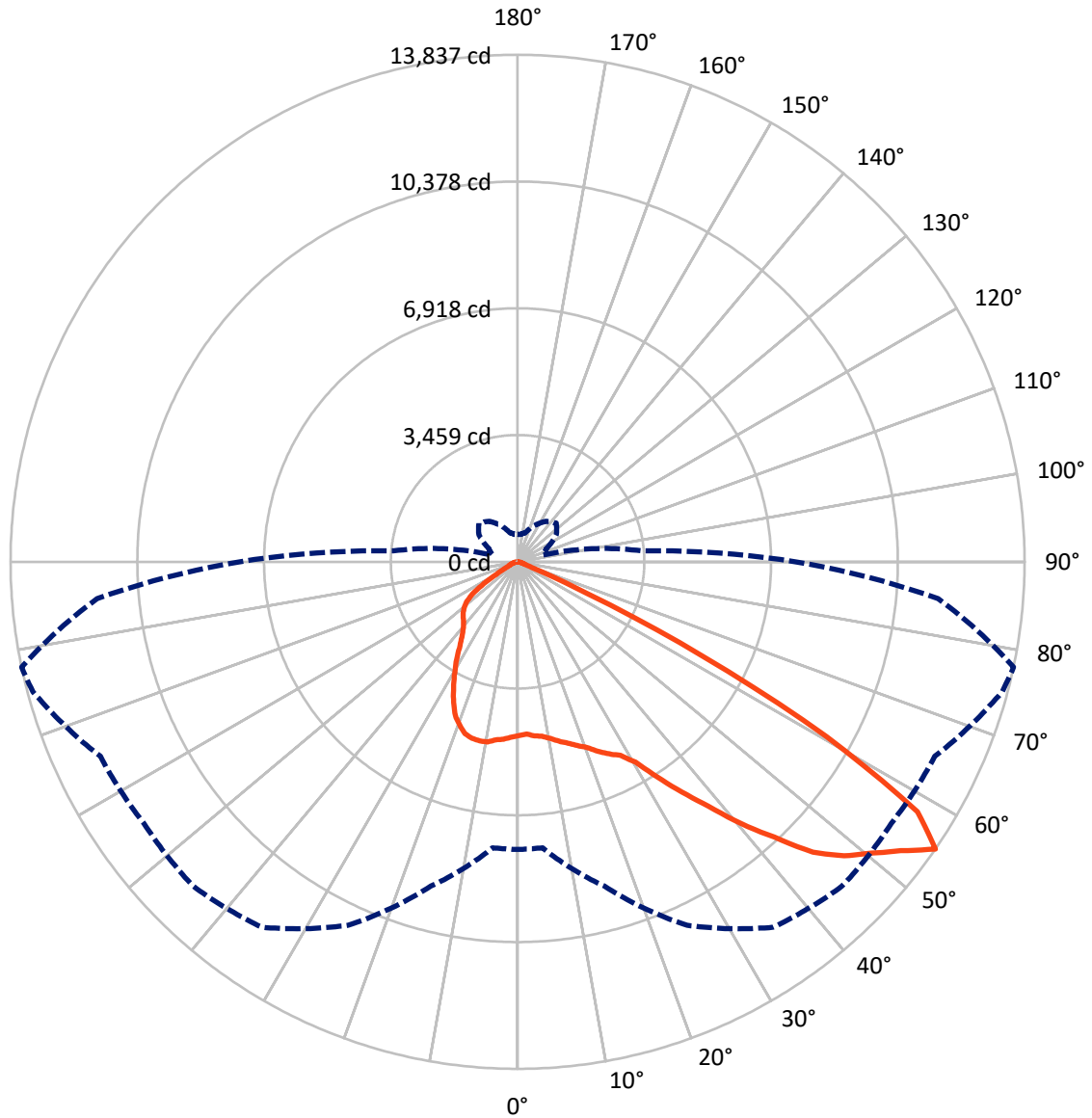
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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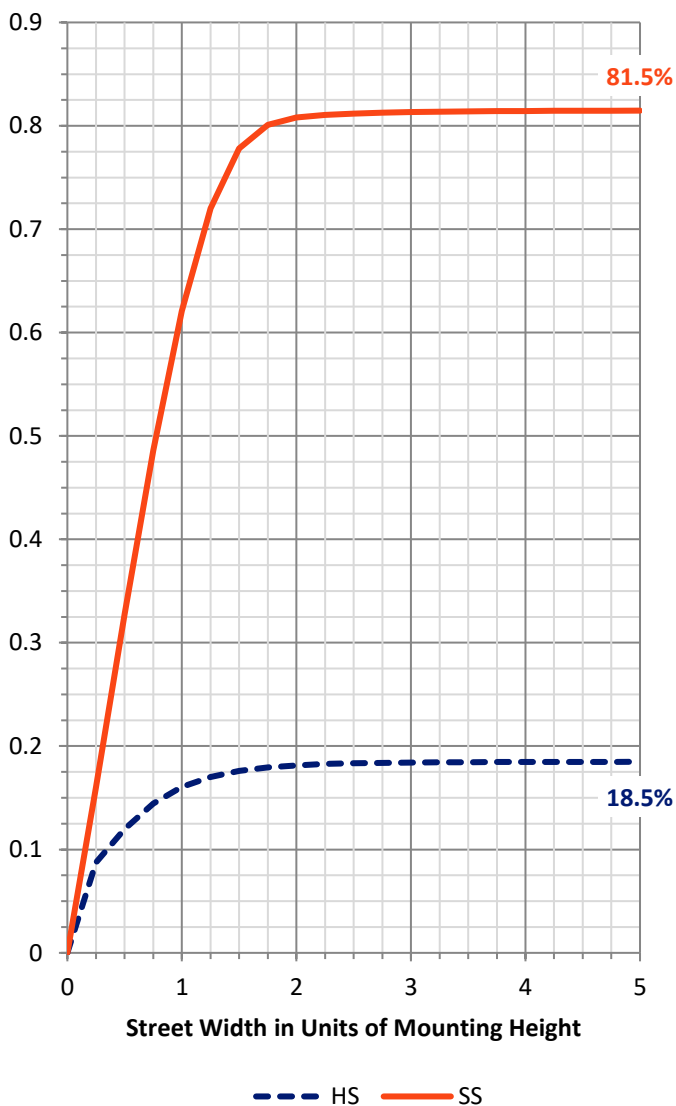
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3426.6	0.0	3426.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	15021.7	0.0	15021.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	18448.3	0.0	18448.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.9	2.3
10°-20°	1119.3	6.1
20°-30°	1961.9	10.6
30°-40°	3235.0	17.5
40°-50°	4707.3	25.5
50°-60°	5333.8	28.9
60°-70°	1525.0	8.3
70°-80°	118.4	0.6
80°-90°	24.6	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°	18448.3	100.0
0°-180°	18448.3	100.0

**Coefficient of Utilization**

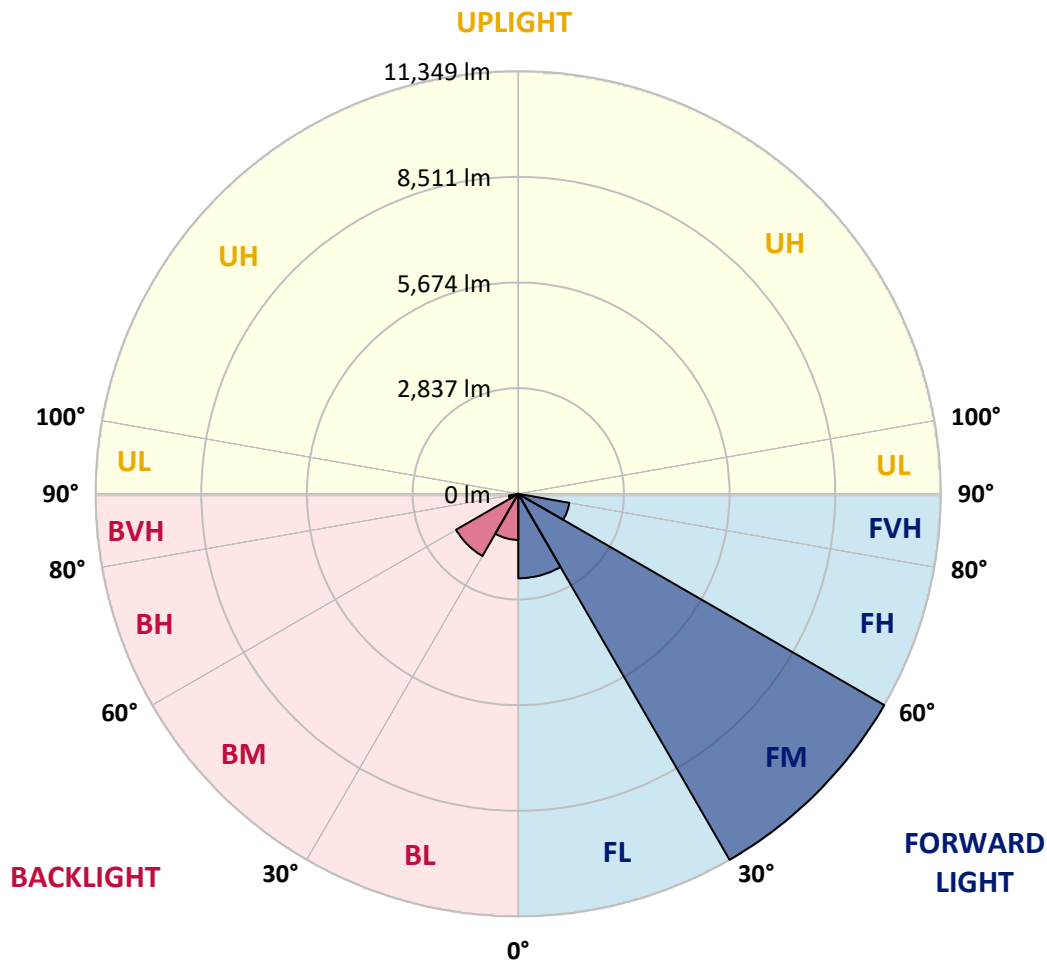


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.8	12.3			
FM (30°-60°)	11348.6	61.5			
FH (60°-80°)	1393.3	7.6			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1236.3	6.7	B3/2500		
BM (30°-60°)	1927.5	10.4	B2/2500		
BH (60°-80°)	250.1	1.4	B1/500		G1/500
BVH (80°-90°)	12.6	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°	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	4459.4	4502.2	4508.9	4561.7	4558.3	4647.4	4673.8	4677.1	4736.4	4706.8	4782.6
5°	4334.1	4311.0	4301.1	4393.4	4419.8	4499.0	4565.0	4604.5	4726.6	4769.4	4848.6
7.5°	4221.9	4221.9	4228.5	4311.0	4301.1	4403.4	4472.6	4594.6	4772.8	4809.0	4904.7
10°	4113.1	4073.5	4123.0	4208.7	4281.3	4327.5	4472.6	4588.1	4795.8	4901.3	5033.3
12.5°	4057.0	4076.8	4083.4	4146.1	4225.2	4363.7	4442.9	4634.2	4960.8	5023.4	5165.2
15°	4409.9	4370.3	4274.7	4218.6	4284.6	4350.6	4548.4	4743.0	5046.5	5135.5	5293.9
17.5°	4818.9	4785.9	4706.8	4555.0	4406.6	4528.6	4683.7	4861.8	5138.8	5270.8	5505.0
20°	5353.3	5300.5	5221.4	4924.4	4795.8	4663.9	4828.8	5039.9	5290.6	5409.4	5650.1
22.5°	5989.9	5989.9	5811.7	5452.2	5185.0	5059.7	5129.0	5251.0	5458.8	5620.5	5857.9
25°	6652.8	6633.0	6471.4	6098.7	5646.8	5498.4	5577.5	5663.3	5719.3	5808.5	5966.8
27.5°	7411.4	7296.0	7091.5	6679.2	6280.1	5993.2	6078.9	6003.0	5933.8	5979.9	6207.5
30°	7926.0	7998.6	7738.0	7342.2	6966.2	6646.2	6662.7	6596.8	6280.1	6346.1	6481.3
32.5°	8460.3	8506.5	8361.3	8143.7	7767.7	7395.0	7259.7	7203.7	6966.2	6995.9	6863.9
35°	8905.6	8994.6	8866.0	8770.4	8661.5	8361.3	7988.6	8170.1	7787.5	7714.9	7371.9
37.5°	9314.6	9288.2	9439.9	9341.0	9317.9	9106.8	8697.8	8734.1	8476.8	8460.3	8064.5
40°	9680.7	9687.4	9895.1	9941.3	9849.0	9472.9	8879.2	9166.2	9374.0	9393.7	8885.8
42.5°	9984.2	10073.2	10251.3	10624.1	10485.5	9858.8	9067.2	9380.6	10152.4	10274.4	9664.3
45°	10248.1	10429.5	10650.4	10983.6	10904.4	10406.4	9535.6	9822.6	10983.6	11303.5	10396.4
47.5°	10264.5	10502.0	10742.8	11237.5	11336.5	10699.9	10020.4	10521.8	11643.3	11989.6	10930.8
50°	10198.6	10323.9	10805.5	11343.1	11567.4	11178.2	10699.9	11108.9	12283.2	12500.8	11201.3
52.5°	9416.8	9512.5	10479.0	11442.1	11983.0	11719.1	11600.4	11926.9	12936.2	13097.9	11455.2
55°	7850.1	7833.6	9162.9	10944.0	12174.3	12520.6	12448.1	12563.5	13691.5	13836.7	11517.9
57.5°	5369.7	5669.9	6817.7	9113.4	11003.3	12332.6	12408.5	12217.1	12810.9	12867.0	10040.3
60°	2896.0	3021.3	3944.8	6082.2	8377.9	10050.1	10248.1	9901.7	9855.5	9697.2	7167.3
62.5°	1151.2	1213.8	1738.3	3011.4	4565.0	6108.6	6534.1	6392.3	6088.8	5673.2	3710.6
65°	547.6	587.1	864.2	1408.4	2025.2	2546.3	2971.8	3103.7	2289.1	2061.5	1223.7
67.5°	372.7	402.4	630.0	804.8	722.3	755.4	982.9	913.7	537.6	458.4	339.7
70°	283.7	303.4	504.6	547.6	323.2	227.6	254.0	237.5	221.0	224.3	221.0
72.5°	201.2	217.7	369.4	323.2	141.8	105.5	135.2	161.6	161.6	161.6	158.3
75°	122.1	138.5	214.4	125.4	56.1	56.1	85.7	108.8	115.4	118.7	112.1
77.5°	62.6	79.2	72.6	36.3	36.3	42.9	62.6	75.9	82.4	82.4	79.2
80°	13.2	13.2	13.2	19.8	36.3	46.2	62.6	69.3	79.2	79.2	72.6
82.5°	0.0	3.3	9.9	19.8	33.0	42.9	59.4	69.3	79.2	82.4	75.9
85°	0.0	3.3	6.6	13.2	23.1	26.4	23.1	19.8	19.8	19.8	19.8
87.5°	0.0	0.0	3.3	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	4789.2	4799.2	4782.6	4779.4	4766.1	4805.7	4710.1	4687.0	4746.4	4690.2	4703.5
5°	4851.9	4875.0	4845.3	4795.8	4723.3	4611.1	4515.5	4390.1	4330.8	4287.9	4281.3
7.5°	4898.1	4914.6	4884.9	4726.6	4508.9	4225.2	4014.1	3859.1	3737.0	3700.8	3641.4
10°	5086.1	5089.4	4941.0	4591.4	4165.9	3793.2	3469.9	3232.4	3110.4	3034.5	3001.6
12.5°	5211.4	5204.8	4904.7	4324.2	3756.8	3262.1	2892.6	2605.7	2493.5	2457.3	2434.2
15°	5369.7	5333.5	4818.9	4050.4	3229.1	2694.8	2361.6	2163.7	2153.8	2130.8	2153.8
17.5°	5495.1	5392.8	4693.6	3552.3	2724.4	2219.8	2002.1	2015.3	2041.7	2064.8	2068.1
20°	5699.6	5488.5	4406.6	3117.0	2256.1	1903.2	1899.9	1959.2	2025.2	2051.6	2078.0
22.5°	5854.6	5528.1	4099.9	2651.9	1873.5	1774.5	1830.6	1919.7	1969.2	1995.6	2035.1
25°	5910.7	5419.2	3690.9	2186.8	1688.8	1715.2	1800.9	1860.3	1923.0	1952.6	1936.1
27.5°	5966.8	5363.2	3202.7	1800.9	1589.8	1675.5	1748.1	1807.5	1827.3	1866.9	1893.3
30°	6102.0	5168.6	2764.1	1556.8	1540.3	1649.2	1701.9	1721.7	1774.5	1797.6	1797.6
32.5°	6210.8	5092.7	2299.0	1441.4	1533.7	1662.4	1669.0	1669.0	1675.5	1659.1	1652.5
35°	6435.1	4832.1	1883.3	1372.1	1530.5	1665.7	1682.2	1626.1	1474.4	1415.0	1398.5
37.5°	6712.2	4663.9	1576.6	1355.6	1553.6	1705.3	1731.7	1520.6	1322.6	1227.0	1210.5
40°	7048.6	4545.2	1375.4	1349.0	1606.3	1797.6	1718.5	1438.1	1180.8	1042.3	1035.7
42.5°	7441.2	4436.3	1240.2	1345.7	1672.3	1893.3	1705.3	1368.8	1035.7	943.4	956.5
45°	7754.4	4377.0	1147.8	1322.6	1695.4	1949.4	1715.2	1246.8	976.3	917.0	923.5
47.5°	7998.6	4251.6	1072.0	1283.1	1692.1	1969.2	1626.1	1197.3	946.6	963.1	979.6
50°	8005.2	4083.4	976.3	1197.3	1642.6	1932.8	1523.9	1151.2	940.1	1009.3	1042.3
52.5°	7916.1	3845.9	874.1	1075.3	1527.2	1807.5	1431.5	1131.4	910.3	903.7	943.4
55°	7599.5	3400.6	702.6	870.8	1289.7	1490.8	1349.0	1095.0	821.3	745.4	752.0
57.5°	6141.5	2437.5	517.9	623.4	913.7	1091.7	1217.1	1078.6	738.8	633.3	636.6
60°	3803.0	1382.0	379.3	425.5	564.0	663.0	986.2	1002.7	659.7	534.3	527.7
62.5°	1952.6	682.8	293.5	300.1	346.3	389.2	676.2	841.1	597.0	507.9	507.9
65°	653.1	336.5	257.3	230.9	230.9	240.8	409.0	583.8	504.6	425.5	425.5
67.5°	280.4	250.6	224.3	201.2	184.7	174.8	230.9	339.7	376.0	323.2	310.1
70°	217.7	211.1	194.6	168.2	145.1	131.9	135.2	174.8	214.4	207.8	201.2
72.5°	161.6	161.6	155.0	131.9	112.1	95.7	89.0	92.3	102.3	105.5	108.8
75°	112.1	115.4	115.4	102.3	82.4	69.3	59.4	49.5	39.5	33.0	29.7
77.5°	75.9	79.2	85.7	75.9	62.6	46.2	36.3	26.4	16.5	6.6	6.6
80°	65.9	75.9	82.4	75.9	65.9	49.5	36.3	19.8	9.9	0.0	0.0
82.5°	69.3	75.9	85.7	72.6	62.6	46.2	36.3	23.1	9.9	3.3	0.0
85°	16.5	16.5	19.8	23.1	29.7	33.0	26.4	16.5	9.9	3.3	0.0
87.5°	6.6	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	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)