

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: P533939

Luminaire Tested: **GALN-SA9B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533939  
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-SA9B-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA 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: 23063 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

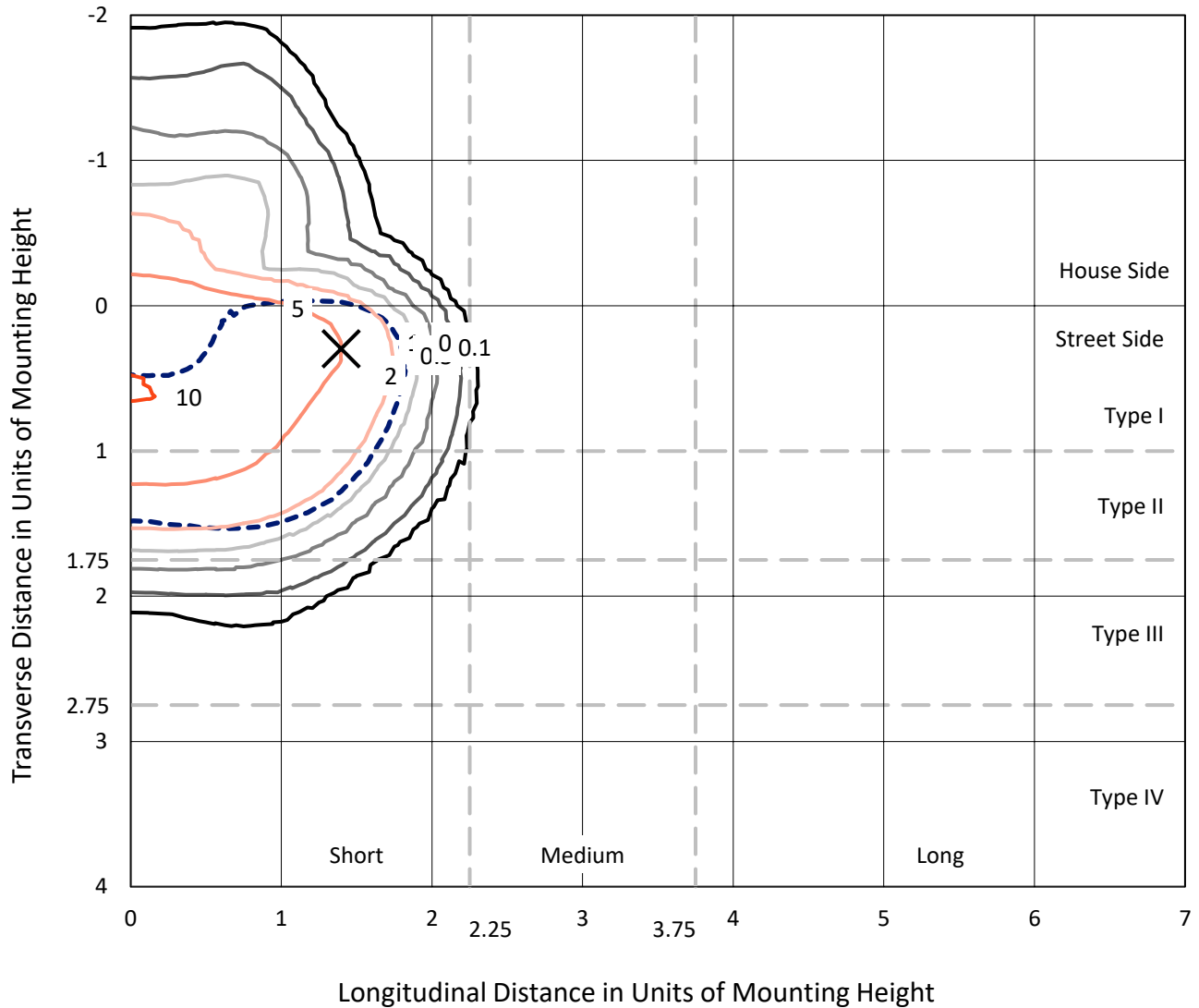
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

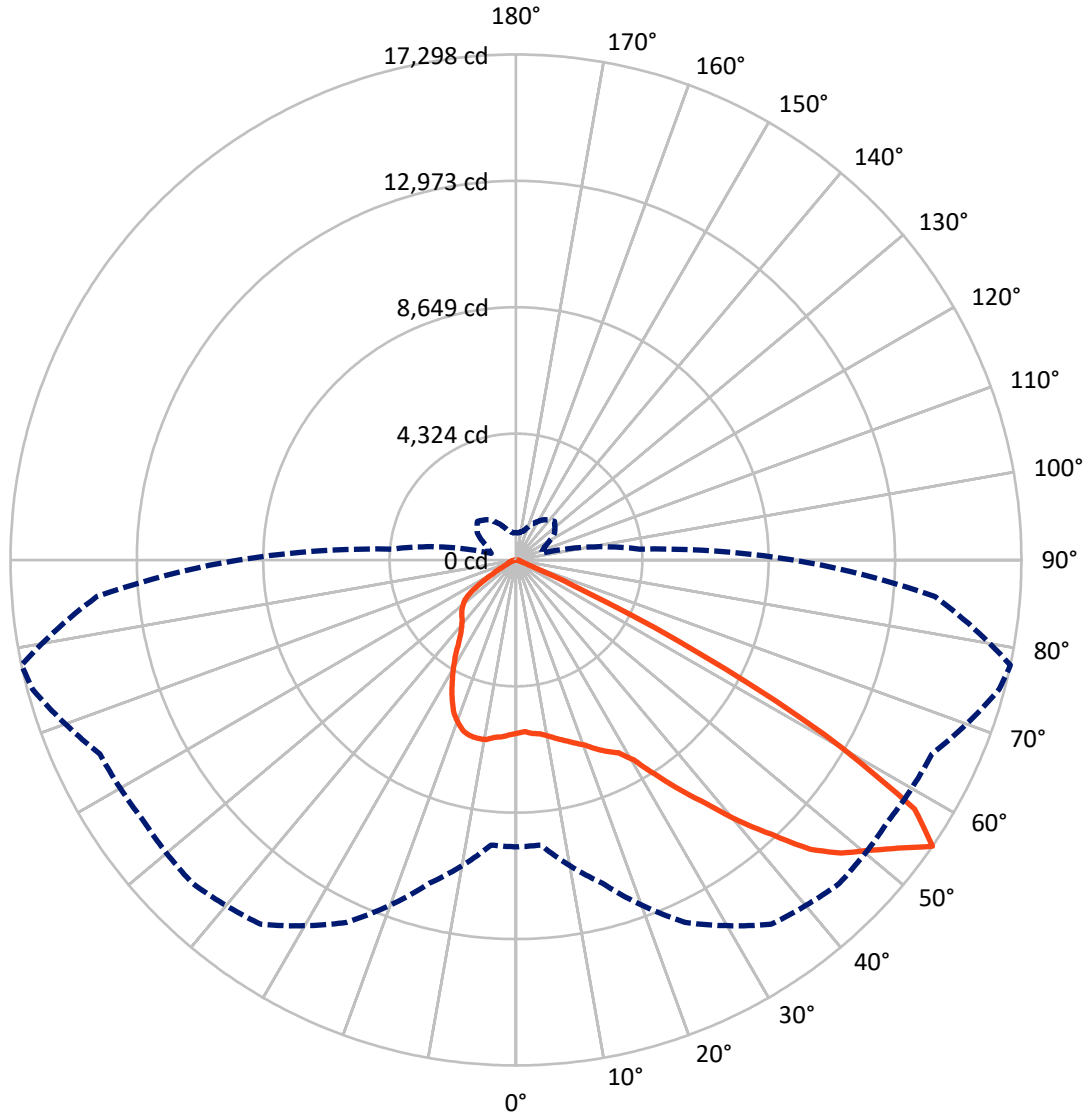
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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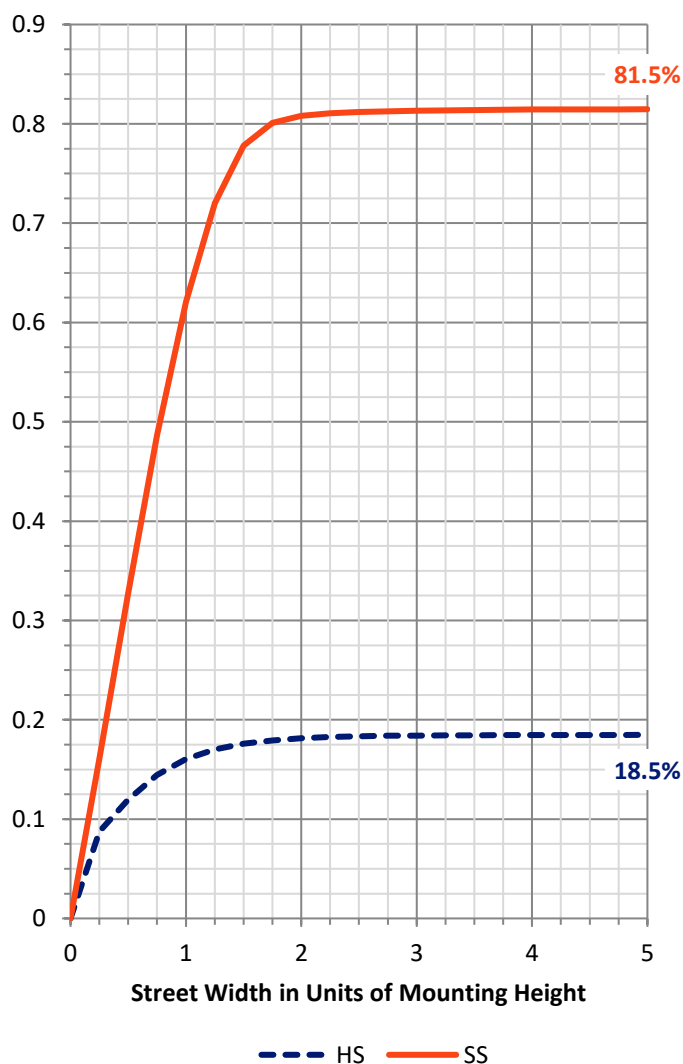
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4283.7	0.0	4283.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	18779.3	0.0	18779.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	23063.0	0.0	23063.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.7	2.3
10°-20°	1399.3	6.1
20°-30°	2452.7	10.6
30°-40°	4044.2	17.5
40°-50°	5884.8	25.5
50°-60°	6668.1	28.9
60°-70°	1906.5	8.3
70°-80°	148.0	0.6
80°-90°	30.8	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°	23063.0	100.0
0°-180°	23063.0	100.0

**Coefficient of Utilization**



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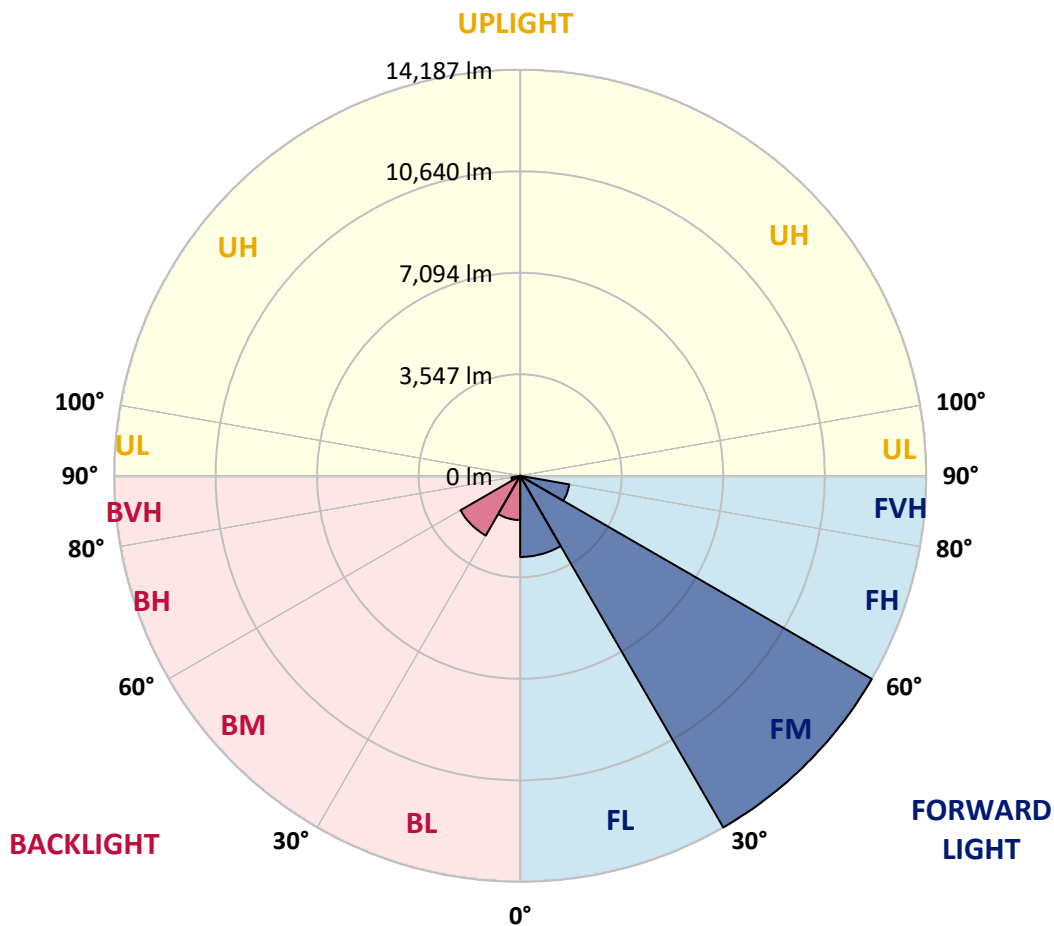
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2835.1	12.3			
FM (30°-60°)	14187.3	61.5			
FH (60°-80°)	1741.9	7.6			G1/1800
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	1545.6	6.7	B3/2500		
BM (30°-60°)	2409.6	10.4	B2/2500		
BH (60°-80°)	312.7	1.4	B1/500		G1/500
BVH (80°-90°)	15.8	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°	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5
2.5°	5574.9	5628.5	5636.7	5702.7	5698.6	5809.9	5842.9	5847.0	5921.3	5884.2	5979.0
5°	5418.2	5389.3	5377.0	5492.4	5525.4	5624.4	5706.8	5756.3	5908.9	5962.5	6061.5
7.5°	5278.0	5278.0	5286.3	5389.3	5377.0	5504.8	5591.4	5744.0	5966.6	6012.0	6131.6
10°	5141.9	5092.5	5154.3	5261.5	5352.2	5410.0	5591.4	5735.7	5995.5	6127.4	6292.4
12.5°	5071.8	5096.6	5104.8	5183.2	5282.1	5455.3	5554.3	5793.4	6201.7	6280.0	6457.3
15°	5513.0	5463.6	5344.0	5273.9	5356.4	5438.8	5686.2	5929.5	6308.9	6420.2	6618.1
17.5°	6024.4	5983.1	5884.2	5694.5	5508.9	5661.5	5855.3	6078.0	6424.3	6589.3	6882.0
20°	6692.3	6626.4	6527.4	6156.3	5995.5	5830.5	6036.7	6300.6	6614.0	6762.4	7063.5
22.5°	7488.2	7488.2	7265.5	6816.1	6482.1	6325.4	6412.0	6564.5	6824.3	7026.3	7323.2
25°	8317.0	8292.2	8090.2	7624.2	7059.3	6873.8	6972.7	7080.0	7150.0	7261.4	7459.3
27.5°	9265.4	9121.1	8865.4	8350.0	7851.0	7492.3	7599.5	7504.7	7418.1	7475.8	7760.3
30°	9908.6	9999.3	9673.6	9178.8	8708.7	8308.7	8329.4	8246.9	7851.0	7933.5	8102.6
32.5°	10576.6	10634.4	10452.9	10180.8	9710.7	9244.8	9075.7	9005.6	8708.7	8745.8	8580.9
35°	11133.3	11244.6	11083.8	10964.2	10828.2	10452.9	9987.0	10213.8	9735.4	9644.7	9215.9
37.5°	11644.6	11611.6	11801.3	11677.6	11648.7	11384.8	10873.5	10918.9	10597.2	10576.6	10081.8
40°	12102.3	12110.6	12370.3	12428.1	12312.6	11842.5	11100.3	11459.0	11718.8	11743.6	11108.6
42.5°	12481.7	12593.0	12815.7	13281.6	13108.4	12325.0	11335.3	11727.1	12692.0	12844.5	12081.7
45°	12811.5	13038.3	13314.6	13731.1	13632.1	13009.5	11920.9	12279.6	13731.1	14131.0	12997.1
47.5°	12832.2	13129.0	13430.1	14048.6	14172.3	13376.4	12527.0	13153.8	14555.8	14988.7	13665.1
50°	12749.7	12906.4	13508.4	14180.5	14460.9	13974.3	13376.4	13887.8	15355.7	15627.8	14003.2
52.5°	11772.4	11892.0	13100.2	14304.2	14980.5	14650.6	14502.1	14910.4	16172.1	16374.2	14320.7
55°	9813.8	9793.2	11454.9	13681.6	15219.6	15652.6	15561.9	15706.2	17116.4	17297.8	14399.1
57.5°	6713.0	7088.2	8523.2	11393.1	13755.8	15417.6	15512.4	15273.2	16015.5	16085.6	12551.8
60°	3620.4	3777.1	4931.6	7603.6	10473.5	12564.1	12811.5	12378.6	12320.8	12122.9	8960.2
62.5°	1439.1	1517.4	2173.1	3764.7	5706.8	7636.6	8168.5	7991.2	7611.9	7092.3	4638.9
65°	684.5	734.0	1080.3	1760.7	2531.8	3183.3	3715.2	3880.2	2861.7	2577.2	1529.8
67.5°	465.9	503.1	787.6	1006.1	903.0	944.3	1228.8	1142.2	672.1	573.2	424.7
70°	354.6	379.4	630.9	684.5	404.1	284.5	317.5	296.9	276.3	280.4	276.3
72.5°	251.5	272.1	461.8	404.1	177.3	132.0	169.1	202.0	202.0	202.0	197.9
75°	152.6	173.2	268.0	156.7	70.1	70.1	107.2	136.1	144.3	148.4	140.2
77.5°	78.3	99.0	90.7	45.4	45.4	53.6	78.3	94.8	103.1	103.1	99.0
80°	16.5	16.5	16.5	24.7	45.4	57.7	78.3	86.6	99.0	99.0	90.7
82.5°	0.0	4.1	12.4	24.7	41.2	53.6	74.2	86.6	99.0	103.1	94.8
85°	0.0	4.1	8.2	16.5	28.9	33.0	28.9	24.7	24.7	24.7	24.7
87.5°	0.0	0.0	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5
2.5°	5987.2	5999.6	5979.0	5974.9	5958.4	6007.9	5888.3	5859.4	5933.6	5863.5	5880.0
5°	6065.6	6094.4	6057.3	5995.5	5904.8	5764.6	5645.0	5488.3	5414.1	5360.5	5352.2
7.5°	6123.3	6143.9	6106.8	5908.9	5636.7	5282.1	5018.2	4824.4	4671.9	4626.5	4552.3
10°	6358.3	6362.5	6176.9	5739.8	5207.9	4742.0	4337.9	4041.0	3888.4	3793.6	3752.3
12.5°	6515.0	6506.8	6131.6	5405.8	4696.6	4078.1	3616.3	3257.5	3117.3	3072.0	3043.1
15°	6713.0	6667.6	6024.4	5063.6	4036.9	3368.9	2952.4	2705.0	2692.6	2663.7	2692.6
17.5°	6869.7	6741.8	5867.7	4440.9	3406.0	2775.1	2502.9	2519.4	2552.4	2581.3	2585.4
20°	7125.3	6861.4	5508.9	3896.7	2820.4	2379.2	2375.1	2449.3	2531.8	2564.8	2597.8
22.5°	7319.1	6910.9	5125.4	3315.2	2342.1	2218.4	2288.5	2399.8	2461.7	2494.7	2544.2
25°	7389.2	6774.8	4614.1	2733.8	2111.2	2144.2	2251.4	2325.6	2404.0	2441.1	2420.5
27.5°	7459.3	6704.7	4003.9	2251.4	1987.5	2094.7	2185.4	2259.6	2284.4	2333.9	2366.9
30°	7628.4	6461.4	3455.4	1946.3	1925.6	2061.7	2127.7	2152.4	2218.4	2247.3	2247.3
32.5°	7764.4	6366.6	2874.0	1801.9	1917.4	2078.2	2086.5	2086.5	2094.7	2074.1	2065.8
35°	8044.8	6040.8	2354.5	1715.4	1913.3	2082.3	2103.0	2032.9	1843.2	1769.0	1748.3
37.5°	8391.2	5830.5	1971.0	1694.7	1942.1	2131.8	2164.8	1900.9	1653.5	1533.9	1513.3
40°	8811.8	5682.1	1719.5	1686.5	2008.1	2247.3	2148.3	1797.8	1476.2	1303.0	1294.8
42.5°	9302.5	5546.0	1550.4	1682.4	2090.6	2366.9	2131.8	1711.2	1294.8	1179.3	1195.8
45°	9694.2	5471.8	1435.0	1653.5	2119.4	2437.0	2144.2	1558.7	1220.5	1146.3	1154.6
47.5°	9999.3	5315.1	1340.1	1604.0	2115.3	2461.7	2032.9	1496.8	1183.4	1204.0	1224.7
50°	10007.6	5104.8	1220.5	1496.8	2053.5	2416.3	1905.0	1439.1	1175.2	1261.8	1303.0
52.5°	9896.3	4807.9	1092.7	1344.2	1909.2	2259.6	1789.6	1414.3	1138.1	1129.8	1179.3
55°	9500.4	4251.3	878.3	1088.6	1612.3	1863.8	1686.5	1369.0	1026.7	931.9	940.1
57.5°	7677.9	3047.2	647.4	779.3	1142.2	1364.9	1521.6	1348.4	923.7	791.7	795.8
60°	4754.3	1727.7	474.2	531.9	705.1	828.8	1232.9	1253.5	824.7	668.0	659.8
62.5°	2441.1	853.6	367.0	375.2	433.0	486.6	845.3	1051.5	746.3	635.0	635.0
65°	816.4	420.6	321.6	288.6	288.6	301.0	511.3	729.8	630.9	531.9	531.9
67.5°	350.5	313.4	280.4	251.5	230.9	218.5	288.6	424.7	470.1	404.1	387.6
70°	272.1	263.9	243.3	210.3	181.4	164.9	169.1	218.5	268.0	259.8	251.5
72.5°	202.0	202.0	193.8	164.9	140.2	119.6	111.3	115.5	127.8	132.0	136.1
75°	140.2	144.3	144.3	127.8	103.1	86.6	74.2	61.9	49.5	41.2	37.1
77.5°	94.8	99.0	107.2	94.8	78.3	57.7	45.4	33.0	20.6	8.2	8.2
80°	82.5	94.8	103.1	94.8	82.5	61.9	45.4	24.7	12.4	0.0	0.0
82.5°	86.6	94.8	107.2	90.7	78.3	57.7	45.4	28.9	12.4	4.1	0.0
85°	20.6	20.6	24.7	28.9	37.1	41.2	33.0	20.6	12.4	4.1	0.0
87.5°	8.2	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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)