

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: P531131

Luminaire Tested: **GALN-SA6B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531131  
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-SA6B-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 15085 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

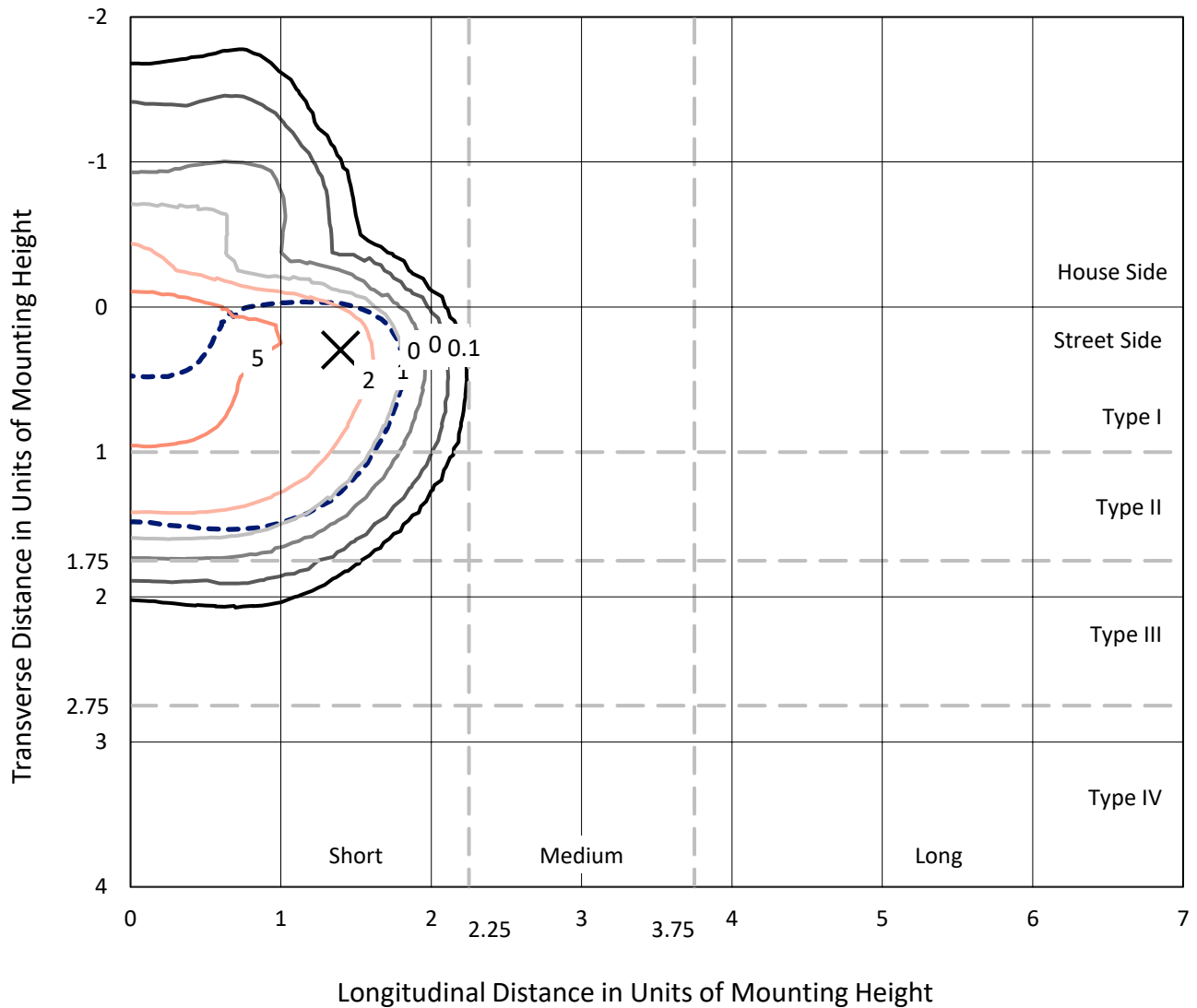
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

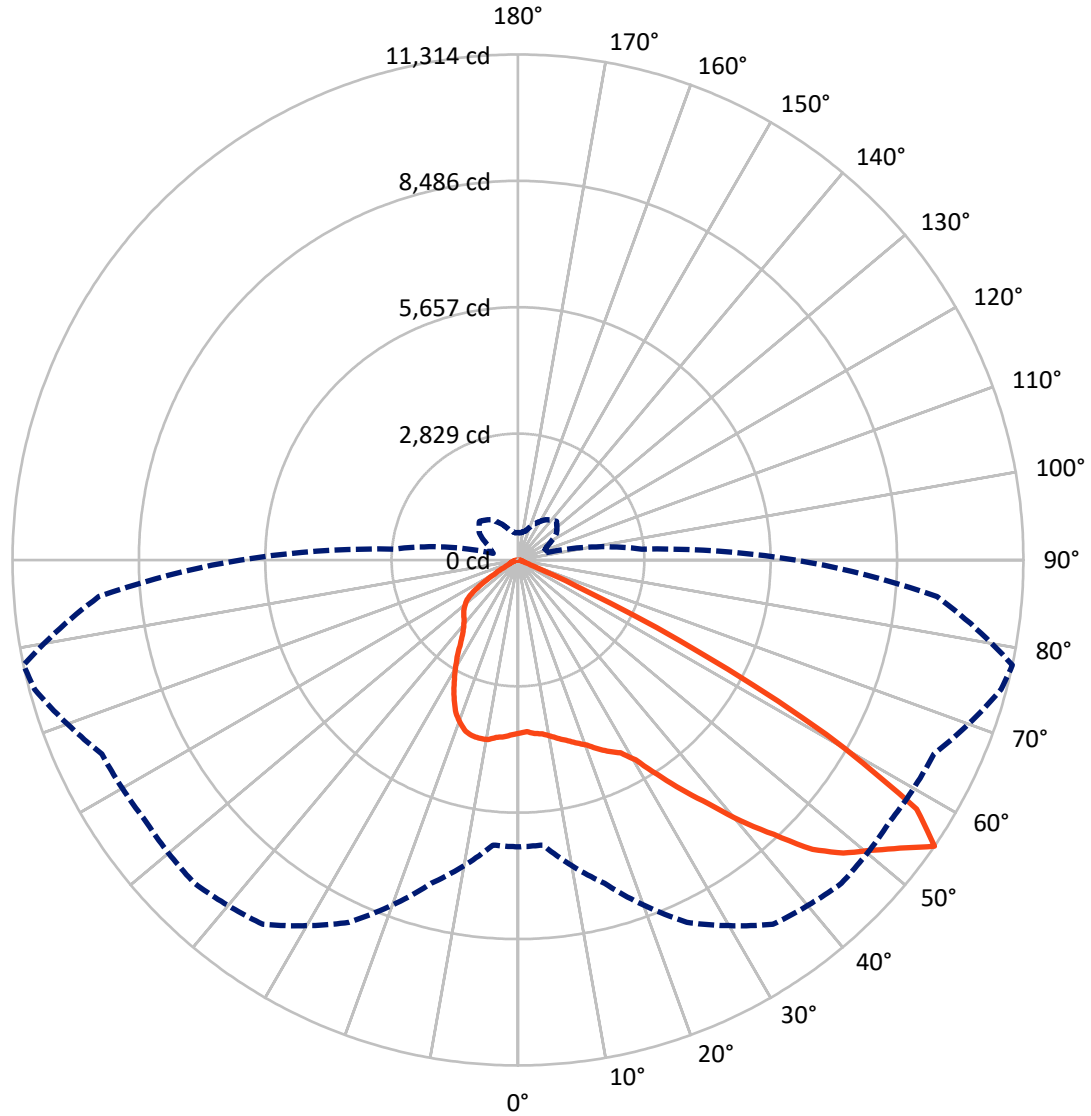
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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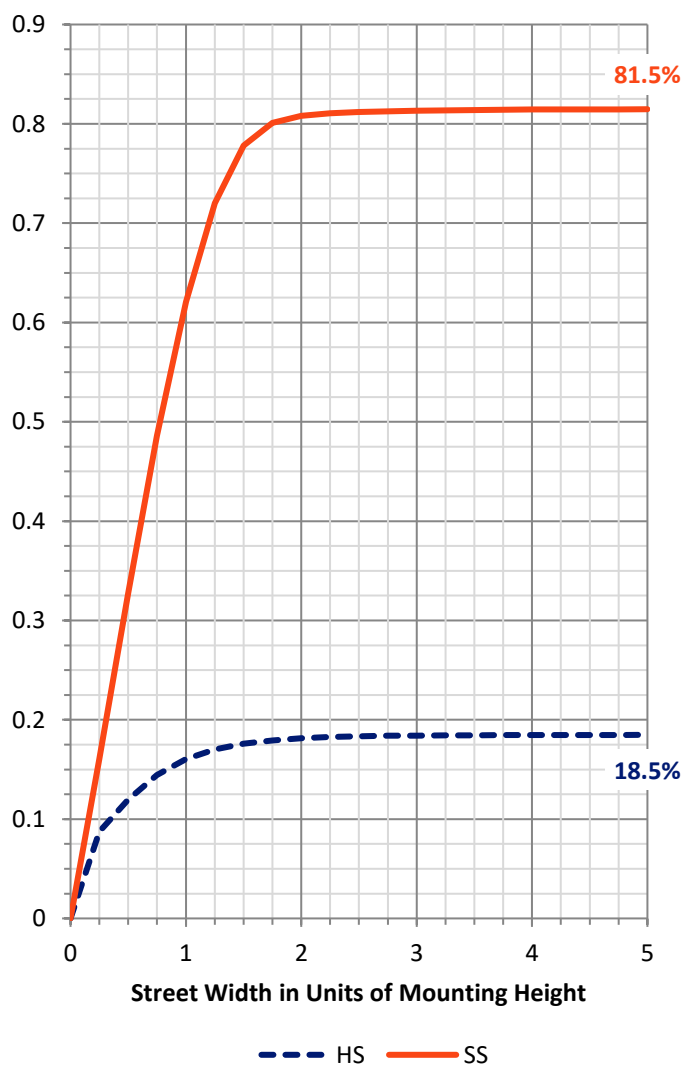
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2801.9	0.0	2801.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12283.1	0.0	12283.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15085.0	0.0	15085.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.8	2.3
10°-20°	915.2	6.1
20°-30°	1604.2	10.6
30°-40°	2645.2	17.5
40°-50°	3849.1	25.5
50°-60°	4361.4	28.9
60°-70°	1247.0	8.3
70°-80°	96.8	0.6
80°-90°	20.1	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°	15085.0	100.0
0°-180°	15085.0	100.0

**Coefficient of Utilization**



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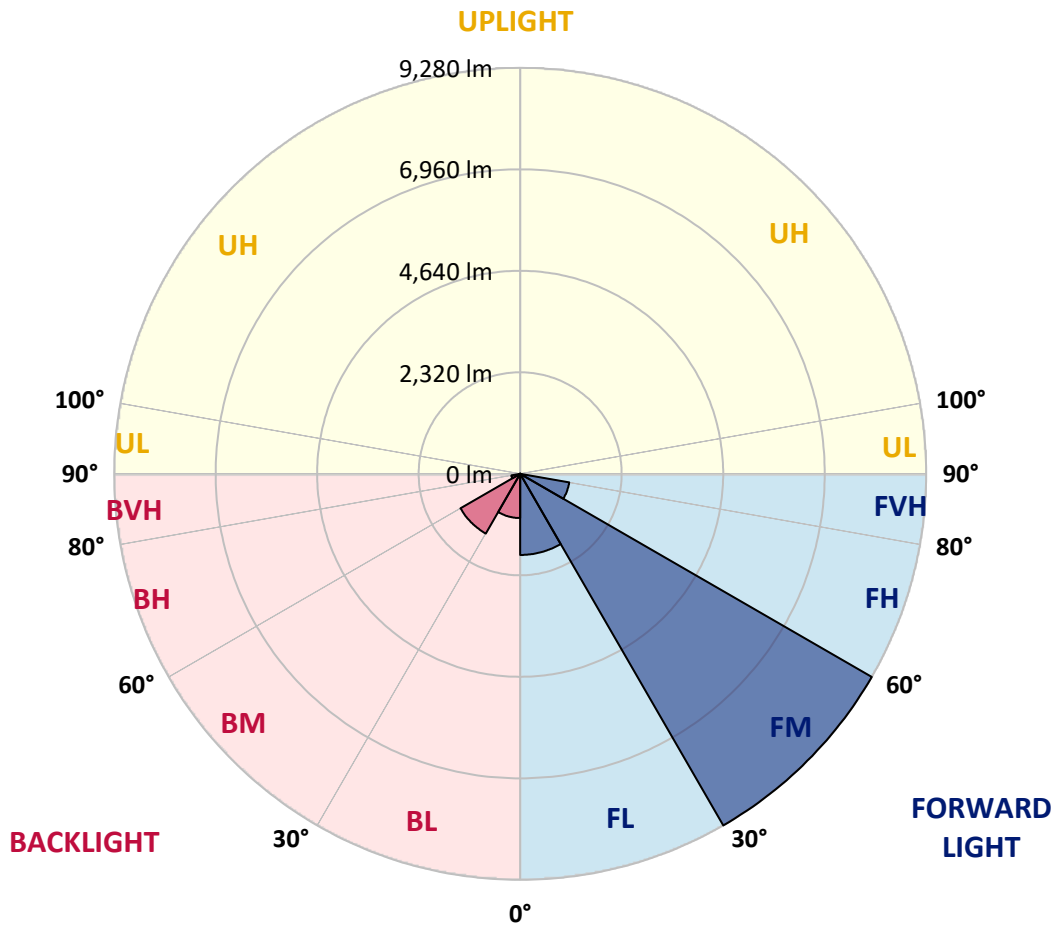
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1854.4	12.3			
FM (30°-60°)	9279.6	61.5			
FH (60°-80°)	1139.3	7.6			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1010.9	6.7	B3/2500		
BM (30°-60°)	1576.1	10.4	B2/2500		
BH (60°-80°)	204.5	1.4	B1/500		G1/500
BVH (80°-90°)	10.3	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°	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4
2.5°	3646.4	3681.5	3686.9	3730.0	3727.3	3800.1	3821.7	3824.4	3873.0	3848.7	3910.7
5°	3543.9	3525.0	3517.0	3592.5	3614.1	3678.8	3732.7	3765.1	3864.9	3899.9	3964.7
7.5°	3452.2	3452.2	3457.6	3525.0	3517.0	3600.6	3657.2	3757.0	3902.6	3932.3	4010.5
10°	3363.2	3330.9	3371.3	3441.4	3500.8	3538.5	3657.2	3751.6	3921.5	4007.8	4115.7
12.5°	3317.4	3333.6	3339.0	3390.2	3454.9	3568.2	3632.9	3789.4	4056.4	4107.6	4223.6
15°	3606.0	3573.6	3495.4	3449.5	3503.5	3557.4	3719.2	3878.4	4126.5	4199.3	4328.8
17.5°	3940.4	3913.4	3848.7	3724.6	3603.3	3703.1	3829.8	3975.5	4202.0	4309.9	4501.4
20°	4377.3	4334.2	4269.4	4026.7	3921.5	3813.6	3948.5	4121.1	4326.1	4423.2	4620.1
22.5°	4897.8	4897.8	4752.2	4458.2	4239.8	4137.3	4193.9	4293.7	4463.6	4595.8	4790.0
25°	5440.0	5423.8	5291.6	4986.9	4617.4	4496.0	4560.7	4630.8	4676.7	4749.5	4879.0
27.5°	6060.3	5965.9	5798.7	5461.5	5135.2	4900.5	4970.7	4908.6	4852.0	4889.8	5075.9
30°	6481.0	6540.4	6327.3	6003.6	5696.2	5434.6	5448.0	5394.1	5135.2	5189.1	5299.7
32.5°	6917.9	6955.7	6837.0	6659.0	6351.6	6046.8	5936.2	5890.4	5696.2	5720.4	5612.6
35°	7282.0	7354.9	7249.7	7171.5	7082.5	6837.0	6532.3	6680.6	6367.7	6308.4	6027.9
37.5°	7616.5	7594.9	7719.0	7638.1	7619.2	7446.6	7112.1	7141.8	6931.4	6917.9	6594.3
40°	7915.9	7921.2	8091.2	8128.9	8053.4	7745.9	7260.5	7495.1	7665.0	7681.2	7265.9
42.5°	8164.0	8236.8	8382.4	8687.2	8573.9	8061.5	7414.2	7670.4	8301.5	8401.3	7902.4
45°	8379.7	8528.1	8708.8	8981.2	8916.5	8509.2	7797.2	8031.8	8981.2	9242.8	8501.1
47.5°	8393.2	8587.4	8784.3	9188.9	9269.8	8749.2	8193.6	8603.6	9520.6	9803.8	8938.0
50°	8339.3	8441.8	8835.5	9275.2	9458.6	9140.3	8749.2	9083.7	10043.8	10221.8	9159.2
52.5°	7700.1	7778.3	8568.5	9356.1	9798.4	9582.6	9485.5	9752.5	10577.8	10710.0	9366.9
55°	6419.0	6405.5	7492.4	8948.8	9954.8	10238.0	10178.7	10273.1	11195.5	11314.1	9418.1
57.5°	4390.8	4636.2	5574.8	7452.0	8997.4	10084.3	10146.3	9989.9	10475.4	10521.2	8209.8
60°	2368.0	2470.5	3225.7	4973.4	6850.5	8217.9	8379.7	8096.6	8058.8	7929.3	5860.7
62.5°	941.3	992.5	1421.3	2462.4	3732.7	4994.9	5342.9	5226.9	4978.8	4638.9	3034.2
65°	447.7	480.1	706.6	1151.6	1656.0	2082.1	2430.0	2537.9	1871.8	1685.7	1000.6
67.5°	304.8	329.0	515.1	658.1	590.7	617.6	803.7	747.1	439.6	374.9	277.8
70°	231.9	248.1	412.6	447.7	264.3	186.1	207.7	194.2	180.7	183.4	180.7
72.5°	164.5	178.0	302.1	264.3	116.0	86.3	110.6	132.2	132.2	132.2	129.5
75°	99.8	113.3	175.3	102.5	45.8	45.8	70.1	89.0	94.4	97.1	91.7
77.5°	51.2	64.7	59.3	29.7	29.7	35.1	51.2	62.0	67.4	67.4	64.7
80°	10.8	10.8	10.8	16.2	29.7	37.8	51.2	56.6	64.7	64.7	59.3
82.5°	0.0	2.7	8.1	16.2	27.0	35.1	48.5	56.6	64.7	67.4	62.0
85°	0.0	2.7	5.4	10.8	18.9	21.6	18.9	16.2	16.2	16.2	16.2
87.5°	0.0	0.0	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4
2.5°	3916.1	3924.2	3910.7	3908.0	3897.2	3929.6	3851.4	3832.5	3881.1	3835.2	3846.0
5°	3967.4	3986.2	3962.0	3921.5	3862.2	3770.5	3692.3	3589.8	3541.2	3506.2	3500.8
7.5°	4005.1	4018.6	3994.3	3864.9	3686.9	3454.9	3282.3	3155.6	3055.8	3026.1	2977.5
10°	4158.9	4161.6	4040.2	3754.3	3406.4	3101.6	2837.3	2643.1	2543.3	2481.3	2454.3
12.5°	4261.3	4255.9	4010.5	3535.8	3071.9	2667.4	2365.3	2130.7	2039.0	2009.3	1990.4
15°	4390.8	4361.1	3940.4	3312.0	2640.4	2203.5	1931.1	1769.3	1761.2	1742.3	1761.2
17.5°	4493.3	4409.7	3837.9	2904.7	2227.8	1815.1	1637.1	1647.9	1669.5	1688.4	1691.1
20°	4660.5	4487.9	3603.3	2548.7	1844.8	1556.2	1553.5	1602.0	1656.0	1677.6	1699.1
22.5°	4787.3	4520.3	3352.4	2168.4	1531.9	1451.0	1496.9	1569.7	1610.1	1631.7	1664.1
25°	4833.1	4431.3	3018.0	1788.1	1380.9	1402.5	1472.6	1521.1	1572.4	1596.7	1583.2
27.5°	4879.0	4385.4	2618.8	1472.6	1300.0	1370.1	1429.4	1478.0	1494.2	1526.5	1548.1
30°	4989.5	4226.3	2260.1	1273.0	1259.5	1348.5	1391.7	1407.9	1451.0	1469.9	1469.9
32.5°	5078.6	4164.2	1879.8	1178.6	1254.1	1359.3	1364.7	1364.7	1370.1	1356.6	1351.2
35°	5262.0	3951.2	1540.0	1122.0	1251.4	1362.0	1375.5	1329.6	1205.6	1157.0	1143.6
37.5°	5488.5	3813.6	1289.2	1108.5	1270.3	1394.4	1416.0	1243.3	1081.5	1003.3	989.8
40°	5763.6	3716.5	1124.7	1103.1	1313.5	1469.9	1405.2	1175.9	965.5	852.3	846.9
42.5°	6084.6	3627.5	1014.1	1100.4	1367.4	1548.1	1394.4	1119.3	846.9	771.4	782.1
45°	6340.8	3579.0	938.6	1081.5	1386.3	1594.0	1402.5	1019.5	798.3	749.8	755.2
47.5°	6540.4	3476.5	876.5	1049.2	1383.6	1610.1	1329.6	979.0	774.1	787.5	801.0
50°	6545.7	3339.0	798.3	979.0	1343.1	1580.5	1246.0	941.3	768.7	825.3	852.3
52.5°	6472.9	3144.8	714.7	879.2	1248.7	1478.0	1170.5	925.1	744.4	739.0	771.4
55°	6214.0	2780.7	574.5	712.0	1054.5	1219.1	1103.1	895.4	671.6	609.5	614.9
57.5°	5021.9	1993.1	423.4	509.7	747.1	892.7	995.2	881.9	604.1	517.8	520.5
60°	3109.7	1130.1	310.2	347.9	461.2	542.1	806.4	819.9	539.4	436.9	431.5
62.5°	1596.7	558.3	240.0	245.4	283.2	318.3	552.9	687.7	488.2	415.3	415.3
65°	534.0	275.1	210.4	188.8	188.8	196.9	334.4	477.4	412.6	347.9	347.9
67.5°	229.2	205.0	183.4	164.5	151.0	142.9	188.8	277.8	307.5	264.3	253.5
70°	178.0	172.6	159.1	137.5	118.7	107.9	110.6	142.9	175.3	169.9	164.5
72.5°	132.2	132.2	126.8	107.9	91.7	78.2	72.8	75.5	83.6	86.3	89.0
75°	91.7	94.4	94.4	83.6	67.4	56.6	48.5	40.5	32.4	27.0	24.3
77.5°	62.0	64.7	70.1	62.0	51.2	37.8	29.7	21.6	13.5	5.4	5.4
80°	53.9	62.0	67.4	62.0	53.9	40.5	29.7	16.2	8.1	0.0	0.0
82.5°	56.6	62.0	70.1	59.3	51.2	37.8	29.7	18.9	8.1	2.7	0.0
85°	13.5	13.5	16.2	18.9	24.3	27.0	21.6	13.5	8.1	2.7	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	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)