

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: P529957

Luminaire Tested: **GALN-SA5A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11135 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

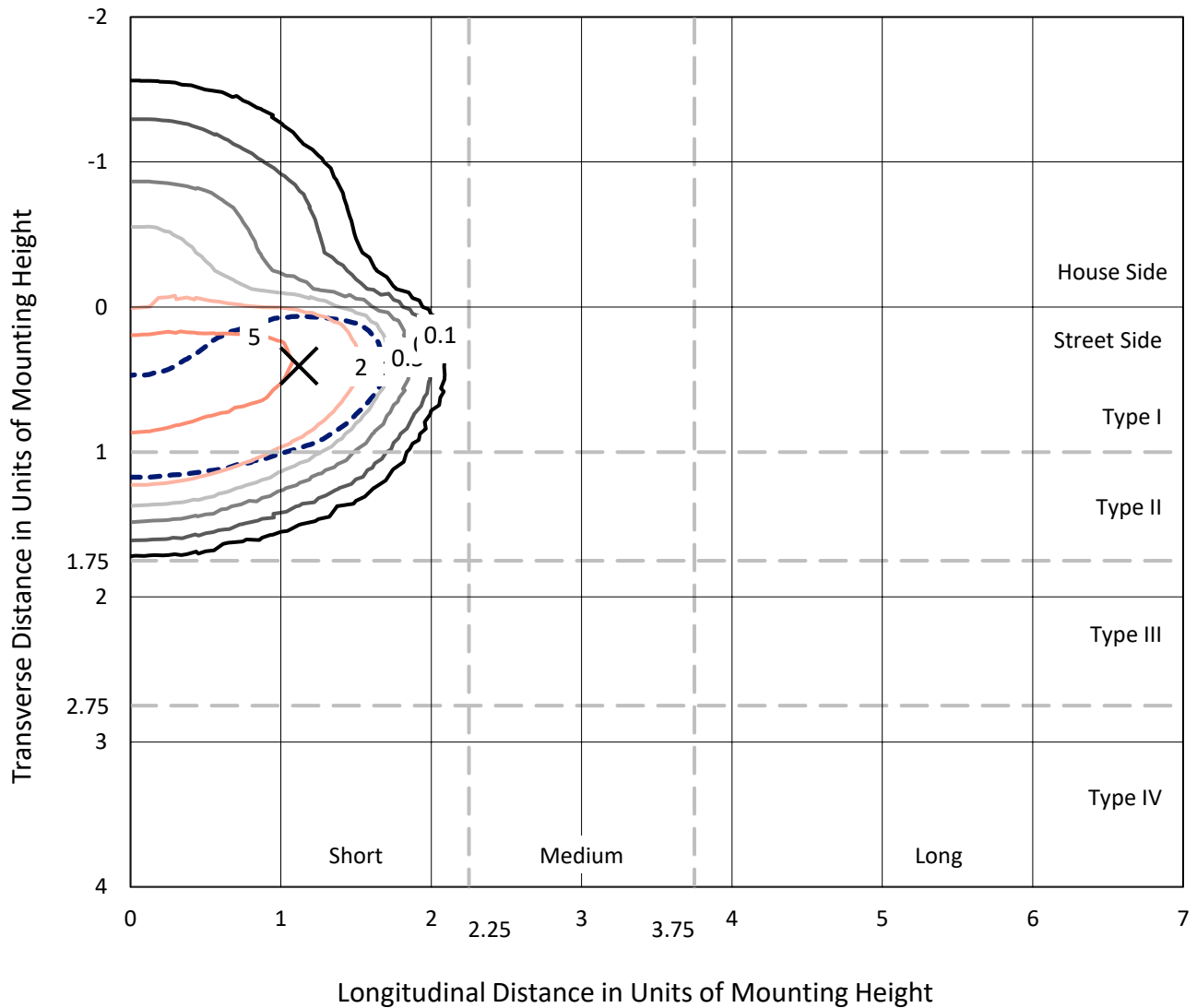
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

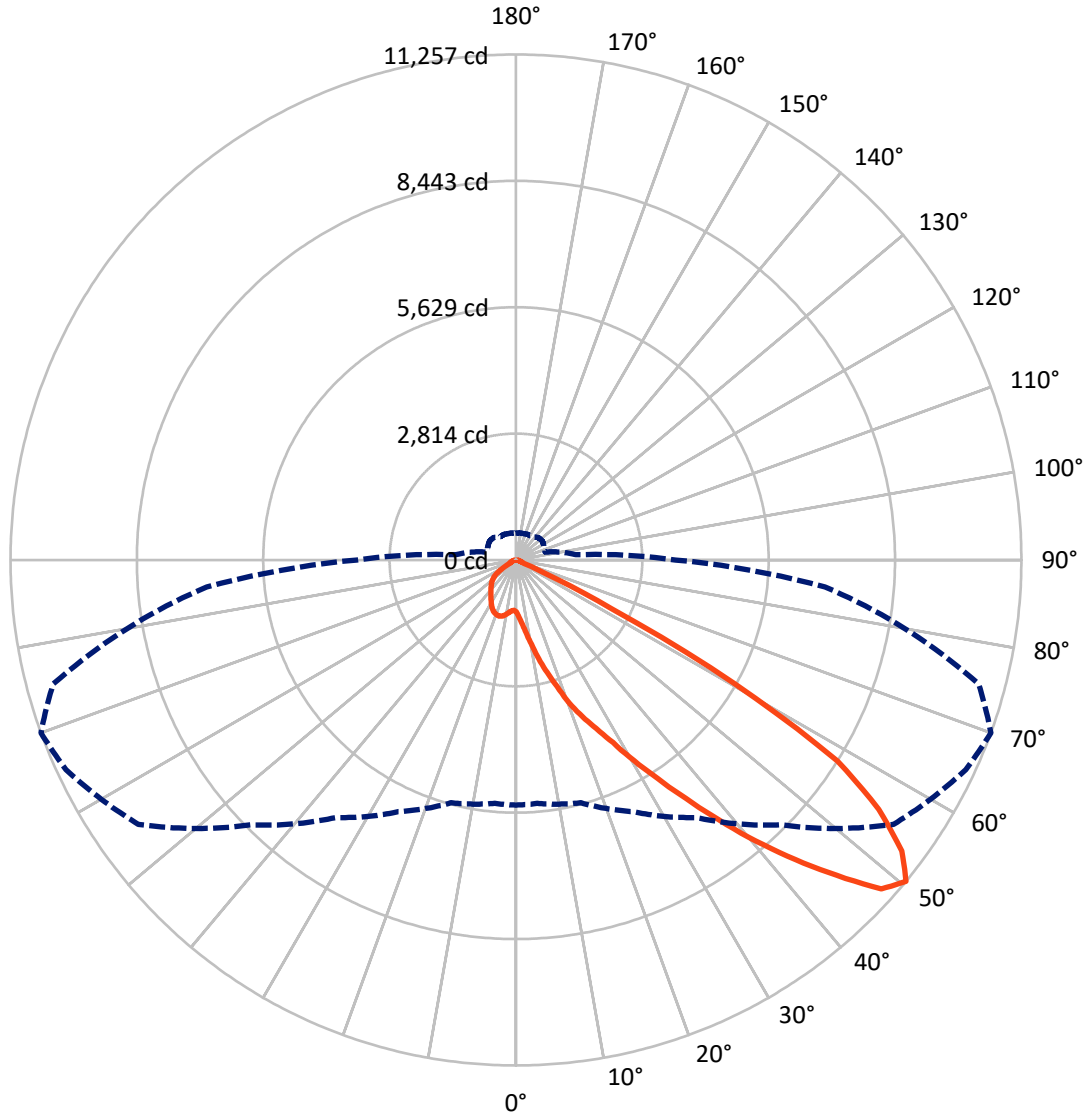
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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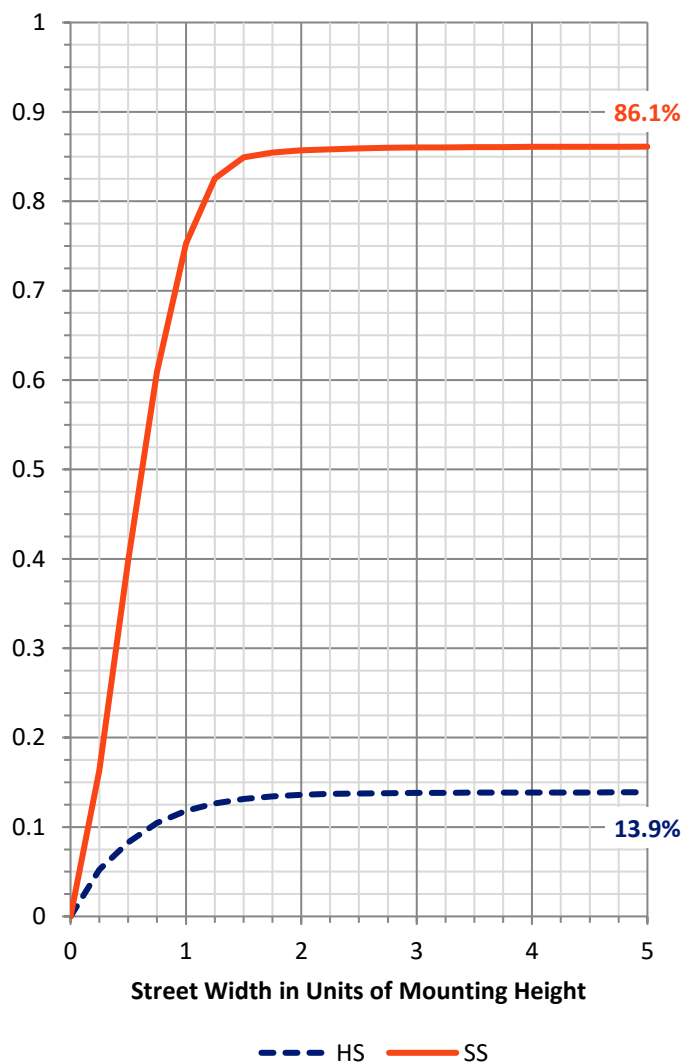
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1555.1	0.0	1555.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	9579.9	0.0	9579.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11135.0	0.0	11135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.0	1.3
10°-20°	648.8	5.8
20°-30°	1361.0	12.2
30°-40°	2345.9	21.1
40°-50°	3428.5	30.8
50°-60°	2670.2	24.0
60°-70°	452.4	4.1
70°-80°	62.2	0.6
80°-90°	16.1	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°	11135.0	100.0
0°-180°	11135.0	100.0

**Coefficient of Utilization**



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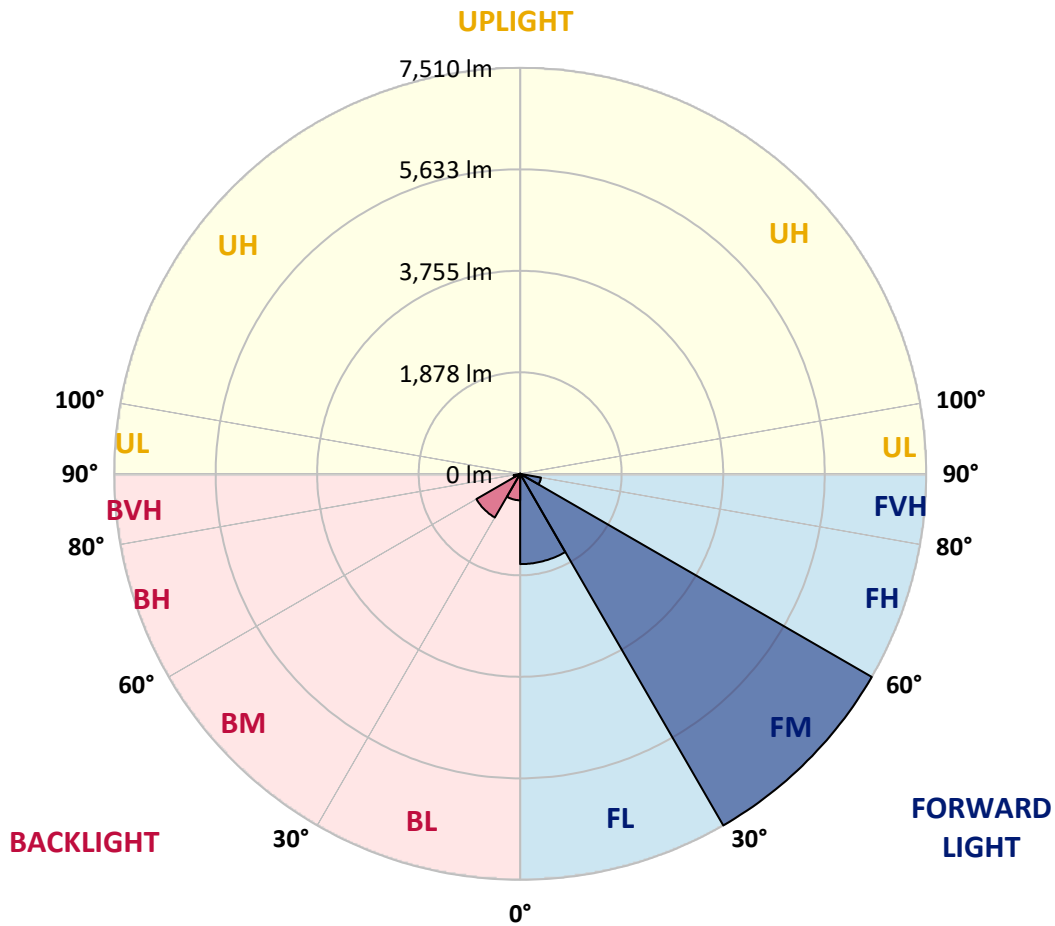
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.4	15.0			
FM (30°-60°)	7510.4	67.4			
FH (60°-80°)	391.7	3.5			G0/660
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	489.3	4.4	B1/500		
BM (30°-60°)	934.2	8.4	B1/1000		
BH (60°-80°)	122.8	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1510.4	1499.4	1475.6	1431.6	1413.3	1369.4	1343.8	1294.3	1263.2	1228.4	1190.0
5°	2127.3	2070.6	2035.8	1986.4	1841.7	1752.0	1603.7	1477.4	1418.8	1354.7	1266.9
7.5°	2764.4	2727.8	2680.2	2574.0	2475.2	2288.4	2034.0	1755.7	1636.7	1526.8	1352.9
10°	3291.7	3189.2	3183.7	3104.9	2996.9	2773.6	2467.8	2121.8	1909.5	1748.4	1475.6
12.5°	3659.7	3566.3	3608.4	3599.2	3498.5	3293.5	2940.2	2482.5	2261.0	2010.2	1601.9
15°	3994.7	3956.2	3943.4	3932.4	3892.2	3740.2	3423.5	2921.9	2601.5	2299.4	1744.7
17.5°	4322.4	4223.5	4271.1	4280.3	4276.6	4139.3	3842.7	3339.3	2962.1	2605.1	1894.8
20°	4613.5	4622.6	4558.5	4545.7	4534.7	4529.3	4240.0	3753.0	3405.2	2925.5	2090.7
22.5°	4986.9	4922.9	4979.6	4943.0	4871.6	4827.7	4606.1	4119.2	3789.6	3311.8	2290.3
25°	5428.1	5479.4	5345.8	5331.1	5252.4	5100.4	4900.9	4529.3	4159.4	3670.6	2506.3
27.5°	5971.9	5882.2	5847.4	5766.8	5624.0	5560.0	5325.6	4952.2	4606.1	4047.8	2715.0
30°	6438.7	6414.9	6241.0	6145.8	6021.3	6019.5	5691.8	5525.2	5188.3	4639.1	3002.4
32.5°	6819.5	6715.2	6651.1	6585.2	6484.5	6511.9	6235.5	6147.6	5808.9	5188.3	3341.1
35°	7074.0	6998.9	6960.5	6859.8	6830.5	6953.2	6837.8	6801.2	6522.9	5960.9	3738.4
37.5°	7154.5	7178.3	7171.0	7044.7	7106.9	7438.3	7586.6	7491.4	7344.9	6775.6	4168.6
40°	7225.9	7242.4	7205.8	7354.1	7531.7	7908.8	8445.2	8287.8	8232.8	7601.2	4767.2
42.5°	7266.2	7253.4	7253.4	7509.7	7778.8	8536.7	9274.5	9170.2	9128.1	8480.0	5459.3
45°	7092.3	6967.8	7101.4	7449.3	7991.2	8846.1	9937.3	10081.9	10021.5	9525.3	6268.5
47.5°	6442.4	6519.3	6594.3	7059.3	7733.0	8750.9	10343.7	10836.2	10947.8	10404.1	6799.4
50°	5459.3	5442.8	5598.4	6184.2	7002.6	8340.9	10265.0	11054.0	11257.2	10667.7	6911.0
52.5°	3970.9	4091.7	4260.1	4842.3	5812.6	7279.0	9248.9	10492.0	10762.9	10343.7	6837.8
55°	2312.2	2178.6	2557.5	3050.0	3965.4	5490.4	7819.1	9300.2	9801.8	9754.2	6468.0
57.5°	926.4	897.1	1027.0	1384.0	2068.7	3403.3	5686.3	7641.5	8445.2	8934.0	5684.5
60°	406.4	397.3	466.8	563.9	845.8	1568.9	3110.4	4752.6	5591.1	6242.8	3912.3
62.5°	292.9	289.3	324.0	358.8	446.7	682.9	1307.1	1915.0	2387.3	2883.4	1752.0
65°	236.2	245.3	269.1	287.4	329.5	379.0	461.3	532.7	653.6	677.4	386.3
67.5°	192.2	199.6	221.5	241.7	249.0	205.0	212.4	186.7	186.7	166.6	133.6
70°	141.0	142.8	168.4	192.2	153.8	82.4	144.6	144.6	130.0	124.5	113.5
72.5°	104.4	106.2	126.3	119.0	60.4	51.3	106.2	117.2	106.2	100.7	91.5
75°	76.9	78.7	65.9	27.5	25.6	33.0	62.2	80.6	76.9	75.1	69.6
77.5°	14.6	11.0	9.2	12.8	18.3	27.5	40.3	49.4	51.3	54.9	51.3
80°	1.8	1.8	5.5	11.0	20.1	29.3	42.1	47.6	49.4	51.3	47.6
82.5°	0.0	1.8	5.5	11.0	20.1	27.5	36.6	42.1	45.8	47.6	45.8
85°	0.0	1.8	3.7	9.2	16.5	20.1	18.3	12.8	11.0	12.8	9.2
87.5°	0.0	0.0	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1168.0	1160.7	1135.1	1107.6	1083.8	1094.8	1083.8	1074.6	1078.3	1074.6	1071.0
5°	1232.1	1199.1	1144.2	1120.4	1100.3	1098.4	1093.0	1091.1	1093.0	1093.0	1076.5
7.5°	1292.5	1239.4	1180.8	1155.2	1131.4	1133.2	1120.4	1120.4	1118.6	1109.4	1105.8
10°	1384.0	1312.6	1237.6	1191.8	1162.5	1157.0	1144.2	1131.4	1131.4	1131.4	1113.1
12.5°	1484.7	1395.0	1292.5	1239.4	1204.6	1177.2	1157.0	1153.4	1133.2	1129.6	1120.4
15°	1572.6	1459.1	1329.1	1255.9	1212.0	1175.3	1144.2	1124.1	1114.9	1109.4	1102.1
17.5°	1658.7	1514.0	1349.3	1255.9	1208.3	1166.2	1133.2	1114.9	1093.0	1096.6	1082.0
20°	1774.0	1572.6	1354.7	1232.1	1173.5	1133.2	1089.3	1080.1	1067.3	1056.3	1060.0
22.5°	1885.7	1614.7	1338.3	1202.8	1118.6	1071.0	1049.0	1038.0	1032.5	1023.4	1010.6
25°	1986.4	1660.5	1312.6	1149.7	1060.0	1025.2	1005.1	1003.2	990.4	990.4	966.6
27.5°	2088.9	1677.0	1268.7	1087.5	1008.7	988.6	979.4	975.8	970.3	957.5	941.0
30°	2206.0	1682.5	1204.6	1023.4	963.0	941.0	953.8	963.0	939.2	915.4	922.7
32.5°	2303.1	1669.6	1127.7	963.0	930.0	919.0	944.7	953.8	926.4	900.7	887.9
35°	2420.2	1638.5	1052.7	915.4	897.1	919.0	941.0	941.0	886.1	855.0	847.6
37.5°	2597.8	1603.7	983.1	875.1	862.3	908.0	937.3	917.2	831.2	792.7	783.6
40°	2788.2	1581.8	915.4	834.8	844.0	889.7	906.2	844.0	756.1	732.3	725.0
42.5°	3064.7	1537.8	855.0	800.0	827.5	864.1	864.1	752.4	719.5	706.7	704.8
45°	3408.8	1506.7	801.9	770.7	803.7	812.8	783.6	704.8	681.0	677.4	679.2
47.5°	3577.3	1446.3	746.9	736.0	759.8	761.6	684.7	666.4	646.3	640.8	637.1
50°	3551.6	1338.3	675.5	690.2	723.1	704.8	624.3	627.9	609.6	607.8	598.7
52.5°	3372.2	1168.0	604.1	638.9	675.5	622.5	574.9	571.2	571.2	547.4	538.2
55°	2989.6	941.0	518.1	562.0	606.0	523.6	510.8	507.1	498.0	476.0	470.5
57.5°	2367.1	690.2	389.9	437.5	514.4	444.9	443.0	426.6	402.8	386.3	386.3
60°	1407.8	397.3	245.3	267.3	340.5	360.7	400.9	393.6	353.3	327.7	320.4
62.5°	642.6	205.0	155.6	159.3	183.1	234.3	314.9	364.3	307.6	263.6	260.0
65°	216.0	152.0	128.2	122.7	126.3	141.0	188.6	258.1	245.3	203.2	195.9
67.5°	131.8	135.5	120.8	111.7	111.7	109.8	108.0	117.2	144.6	141.0	142.8
70°	113.5	124.5	111.7	100.7	97.0	91.5	76.9	64.1	54.9	64.1	67.7
72.5°	91.5	98.9	95.2	86.0	76.9	69.6	54.9	42.1	31.1	27.5	27.5
75°	67.7	73.2	76.9	65.9	58.6	49.4	40.3	27.5	16.5	11.0	11.0
77.5°	49.4	54.9	56.8	51.3	43.9	34.8	25.6	18.3	9.2	3.7	3.7
80°	42.1	49.4	54.9	51.3	45.8	33.0	23.8	12.8	7.3	1.8	1.8
82.5°	40.3	49.4	54.9	49.4	43.9	31.1	23.8	14.6	5.5	1.8	1.8
85°	9.2	12.8	16.5	20.1	23.8	23.8	18.3	11.0	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	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)