

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: P528787

Luminaire Tested: **GALN-SA3D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528787  
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-SA3D-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA 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: 11228 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

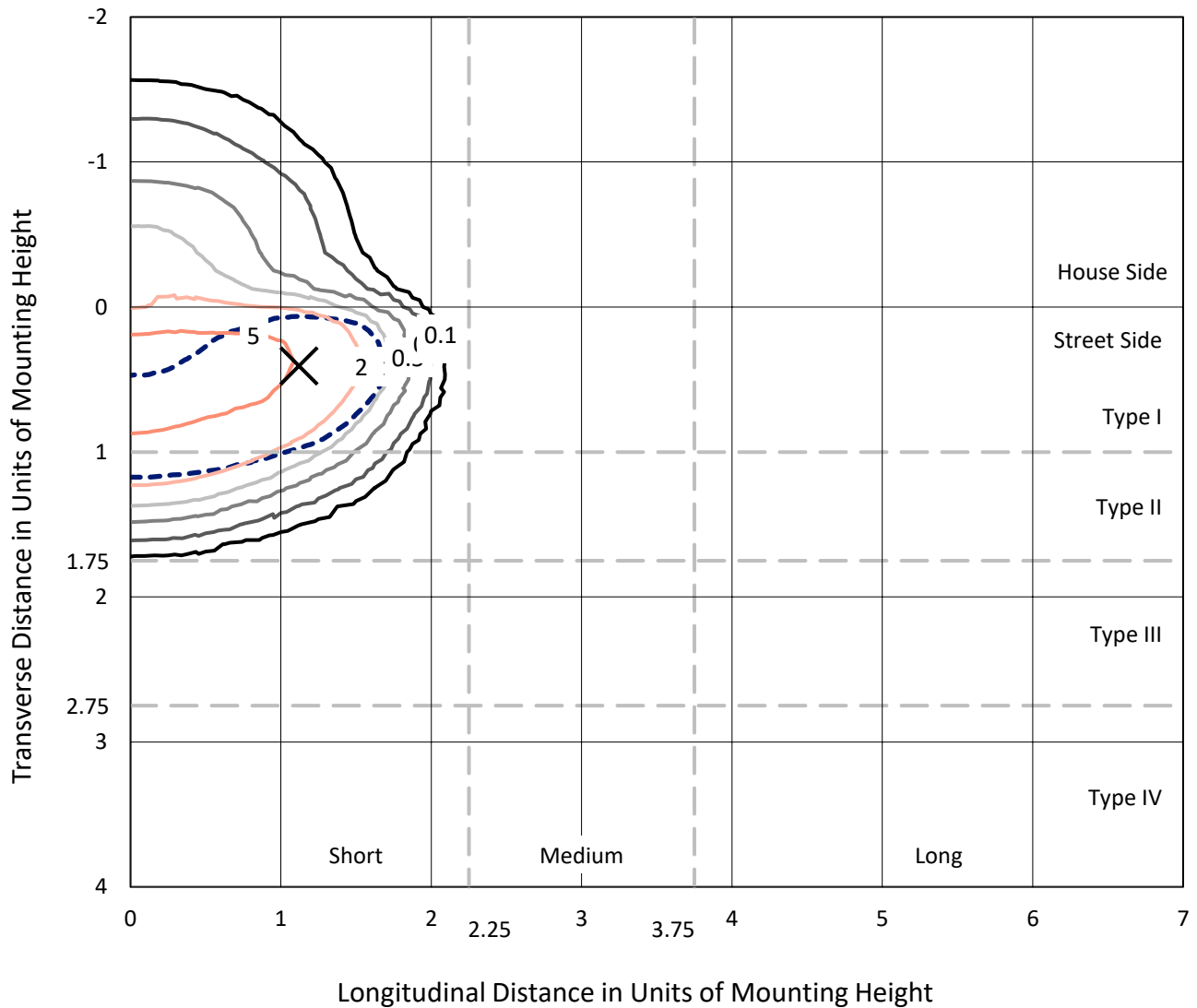
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

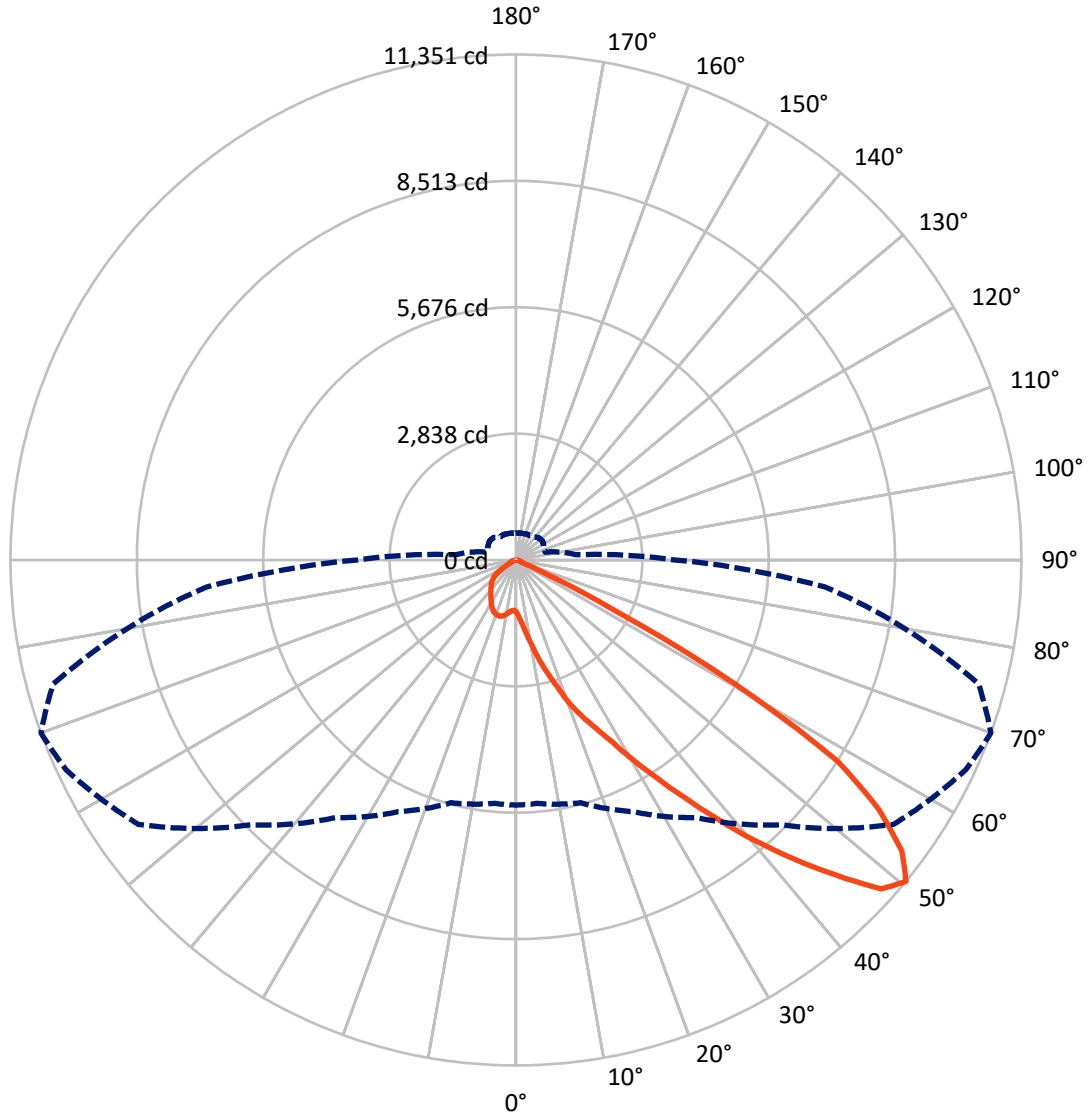
✕ Max cd  
 - - - 1/2 Max cd



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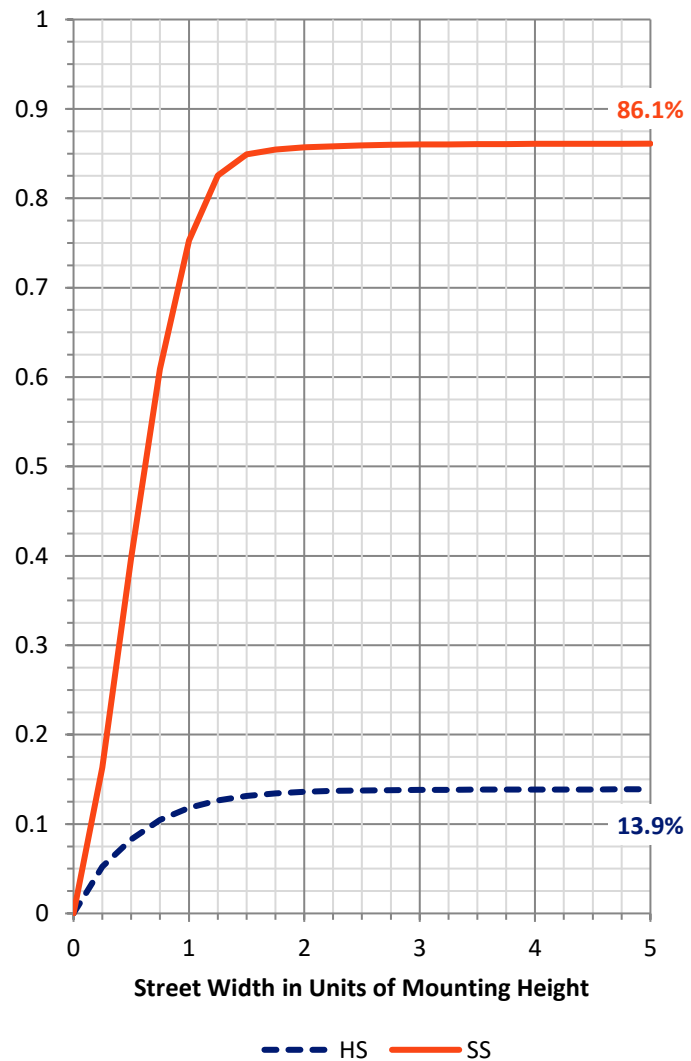
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1568.1	0.0	1568.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	9659.9	0.0	9659.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11228.0	0.0	11228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	1.3
10°-20°	654.2	5.8
20°-30°	1372.4	12.2
30°-40°	2365.5	21.1
40°-50°	3457.1	30.8
50°-60°	2692.5	24.0
60°-70°	456.2	4.1
70°-80°	62.7	0.6
80°-90°	16.2	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°	11228.0	100.0
0°-180°	11228.0	100.0

**Coefficient of Utilization**



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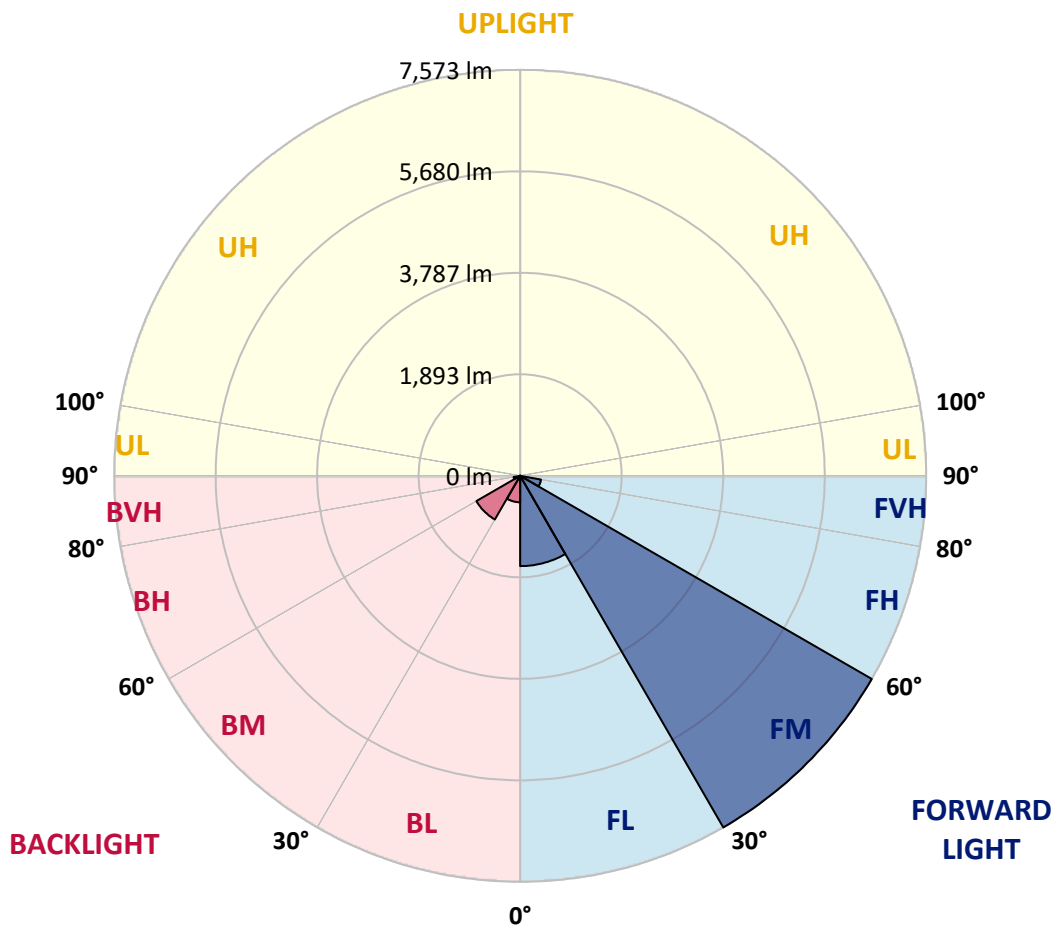
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.3	15.0			
FM (30°-60°)	7573.1	67.4			
FH (60°-80°)	395.0	3.5			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	493.4	4.4	B1/500		
BM (30°-60°)	942.0	8.4	B1/1000		
BH (60°-80°)	123.9	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°	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0
2.5°	1523.0	1511.9	1487.9	1443.6	1425.1	1380.8	1355.0	1305.1	1273.8	1238.7	1199.9
5°	2145.1	2087.9	2052.8	2002.9	1857.1	1766.7	1617.1	1489.7	1430.7	1366.1	1277.5
7.5°	2787.5	2750.6	2702.6	2595.5	2495.8	2307.5	2050.9	1770.3	1650.4	1539.6	1364.2
10°	3319.2	3215.8	3210.2	3130.9	3022.0	2796.7	2488.5	2139.6	1925.4	1763.0	1487.9
12.5°	3690.2	3596.1	3638.5	3629.3	3527.8	3321.0	2964.7	2503.2	2279.8	2026.9	1615.3
15°	4028.0	3989.3	3976.4	3965.3	3924.7	3771.4	3452.1	2946.3	2623.2	2318.6	1759.3
17.5°	4358.5	4258.8	4306.8	4316.0	4312.3	4173.9	3874.8	3367.2	2986.9	2626.9	1910.6
20°	4652.0	4661.2	4596.6	4583.7	4572.6	4567.1	4275.4	3784.4	3433.6	2950.0	2108.2
22.5°	5028.6	4964.0	5021.2	4984.3	4912.3	4868.0	4644.6	4153.6	3821.3	3339.5	2309.4
25°	5473.5	5525.2	5390.4	5375.6	5296.3	5143.0	4941.8	4567.1	4194.2	3701.3	2527.2
27.5°	6021.8	5931.3	5896.2	5815.0	5671.0	5606.4	5370.1	4993.5	4644.6	4081.6	2737.7
30°	6492.5	6468.5	6293.1	6197.1	6071.6	6069.8	5739.3	5571.3	5231.7	4677.8	3027.5
32.5°	6876.5	6771.2	6706.6	6640.2	6538.6	6566.3	6287.6	6199.0	5857.5	5231.7	3369.0
35°	7133.1	7057.4	7018.6	6917.1	6887.5	7011.2	6894.9	6858.0	6577.4	6010.7	3769.6
37.5°	7214.3	7238.3	7230.9	7103.5	7166.3	7500.4	7650.0	7554.0	7406.3	6832.2	4203.4
40°	7286.3	7302.9	7266.0	7415.5	7594.6	7974.9	8515.7	8357.0	8301.6	7664.7	4807.1
42.5°	7326.9	7314.0	7314.0	7572.4	7843.8	8608.0	9352.0	9246.8	9204.3	8550.8	5504.9
45°	7151.5	7026.0	7160.8	7511.5	8057.9	8920.0	10020.3	10166.1	10105.2	9604.9	6320.8
47.5°	6496.2	6573.7	6649.4	7118.3	7797.6	8824.0	10430.1	10926.7	11039.3	10491.0	6856.2
50°	5504.9	5488.3	5645.2	6235.9	7061.1	8410.5	10350.7	11146.3	11351.2	10756.8	6968.8
52.5°	4004.0	4125.9	4295.7	4882.8	5861.1	7339.8	9326.2	10579.6	10852.8	10430.1	6894.9
55°	2331.5	2196.8	2578.9	3075.5	3998.5	5536.2	7884.4	9377.8	9883.7	9835.7	6522.0
57.5°	934.1	904.6	1035.6	1395.6	2086.0	3431.8	5733.8	7705.3	8515.7	9008.6	5731.9
60°	409.8	400.6	470.7	568.6	852.9	1582.0	3136.4	4792.3	5637.8	6295.0	3945.0
62.5°	295.4	291.7	326.7	361.8	450.4	688.6	1318.1	1930.9	2407.2	2907.5	1766.7
65°	238.1	247.4	271.4	289.8	332.3	382.1	465.2	537.2	659.0	683.0	389.5
67.5°	193.8	201.2	223.4	243.7	251.1	206.8	214.1	188.3	188.3	168.0	134.8
70°	142.1	144.0	169.8	193.8	155.1	83.1	145.8	145.8	131.1	125.5	114.5
72.5°	105.2	107.1	127.4	120.0	60.9	51.7	107.1	118.1	107.1	101.5	92.3
75°	77.5	79.4	66.5	27.7	25.8	33.2	62.8	81.2	77.5	75.7	70.1
77.5°	14.8	11.1	9.2	12.9	18.5	27.7	40.6	49.8	51.7	55.4	51.7
80°	1.8	1.8	5.5	11.1	20.3	29.5	42.5	48.0	49.8	51.7	48.0
82.5°	0.0	1.8	5.5	11.1	20.3	27.7	36.9	42.5	46.2	48.0	46.2
85°	0.0	1.8	3.7	9.2	16.6	20.3	18.5	12.9	11.1	12.9	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°	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0
2.5°	1177.8	1170.4	1144.5	1116.8	1092.9	1103.9	1092.9	1083.6	1087.3	1083.6	1079.9
5°	1242.4	1209.2	1153.8	1129.8	1109.5	1107.6	1102.1	1100.2	1102.1	1102.1	1085.5
7.5°	1303.3	1249.8	1190.7	1164.8	1140.8	1142.7	1129.8	1129.8	1127.9	1118.7	1115.0
10°	1395.6	1323.6	1247.9	1201.8	1172.2	1166.7	1153.8	1140.8	1140.8	1140.8	1122.4
12.5°	1497.1	1406.7	1303.3	1249.8	1214.7	1187.0	1166.7	1163.0	1142.7	1139.0	1129.8
15°	1585.7	1471.3	1340.2	1266.4	1222.1	1185.2	1153.8	1133.5	1124.2	1118.7	1111.3
17.5°	1672.5	1526.7	1360.5	1266.4	1218.4	1175.9	1142.7	1124.2	1102.1	1105.8	1091.0
20°	1788.8	1585.7	1366.1	1242.4	1183.3	1142.7	1098.4	1089.2	1076.2	1065.2	1068.9
22.5°	1901.4	1628.2	1349.4	1212.8	1127.9	1079.9	1057.8	1046.7	1041.2	1031.9	1019.0
25°	2002.9	1674.4	1323.6	1159.3	1068.9	1033.8	1013.5	1011.6	998.7	998.7	974.7
27.5°	2106.3	1691.0	1279.3	1096.5	1017.2	996.9	987.6	983.9	978.4	965.5	948.9
30°	2224.5	1696.5	1214.7	1031.9	971.0	948.9	961.8	971.0	947.0	923.0	930.4
32.5°	2322.3	1683.6	1137.2	971.0	937.8	926.7	952.6	961.8	934.1	908.2	895.3
35°	2440.5	1652.2	1061.5	923.0	904.6	926.7	948.9	948.9	893.5	862.1	854.7
37.5°	2619.5	1617.1	991.3	882.4	869.5	915.6	945.2	924.9	838.1	799.3	790.1
40°	2811.5	1595.0	923.0	841.8	851.0	897.2	913.8	851.0	762.4	738.4	731.0
42.5°	3090.3	1550.7	862.1	806.7	834.4	871.3	871.3	758.7	725.5	712.6	710.7
45°	3437.3	1519.3	808.6	777.2	810.4	819.6	790.1	710.7	686.7	683.0	684.9
47.5°	3607.1	1458.4	753.2	742.1	766.1	767.9	690.4	672.0	651.6	646.1	642.4
50°	3581.3	1349.4	681.2	696.0	729.2	710.7	629.5	633.2	614.7	612.9	603.7
52.5°	3400.4	1177.8	609.2	644.3	681.2	627.7	579.7	576.0	576.0	552.0	542.7
55°	3014.6	948.9	522.4	566.7	611.0	528.0	515.0	511.4	502.1	480.0	474.4
57.5°	2386.9	696.0	393.2	441.2	518.7	448.6	446.7	430.1	406.1	389.5	389.5
60°	1419.6	400.6	247.4	269.5	343.4	363.7	404.3	396.9	356.3	330.4	323.1
62.5°	648.0	206.8	156.9	160.6	184.6	236.3	317.5	367.4	310.1	265.8	262.1
65°	217.8	153.2	129.2	123.7	127.4	142.1	190.1	260.3	247.4	204.9	197.5
67.5°	132.9	136.6	121.8	112.6	112.6	110.8	108.9	118.1	145.8	142.1	144.0
70°	114.5	125.5	112.6	101.5	97.8	92.3	77.5	64.6	55.4	64.6	68.3
72.5°	92.3	99.7	96.0	86.8	77.5	70.1	55.4	42.5	31.4	27.7	27.7
75°	68.3	73.8	77.5	66.5	59.1	49.8	40.6	27.7	16.6	11.1	11.1
77.5°	49.8	55.4	57.2	51.7	44.3	35.1	25.8	18.5	9.2	3.7	3.7
80°	42.5	49.8	55.4	51.7	46.2	33.2	24.0	12.9	7.4	1.8	1.8
82.5°	40.6	49.8	55.4	49.8	44.3	31.4	24.0	14.8	5.5	1.8	1.8
85°	9.2	12.9	16.6	20.3	24.0	24.0	18.5	11.1	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)