

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: P651254

Luminaire Tested: **GALN-SA2D-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13333.2 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

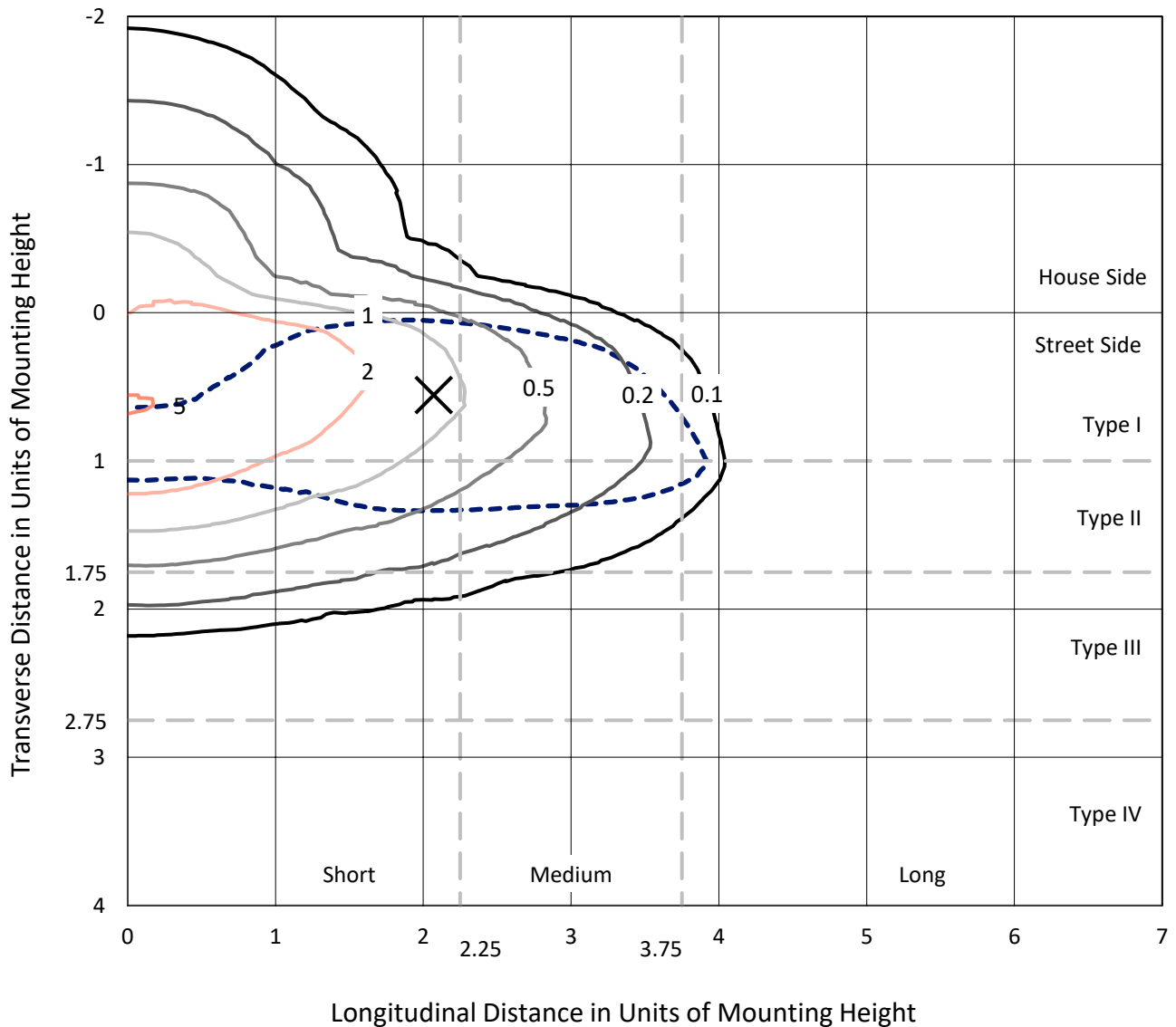
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651254  
 CATALOG NUMBER: GALN-SA2D-840-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

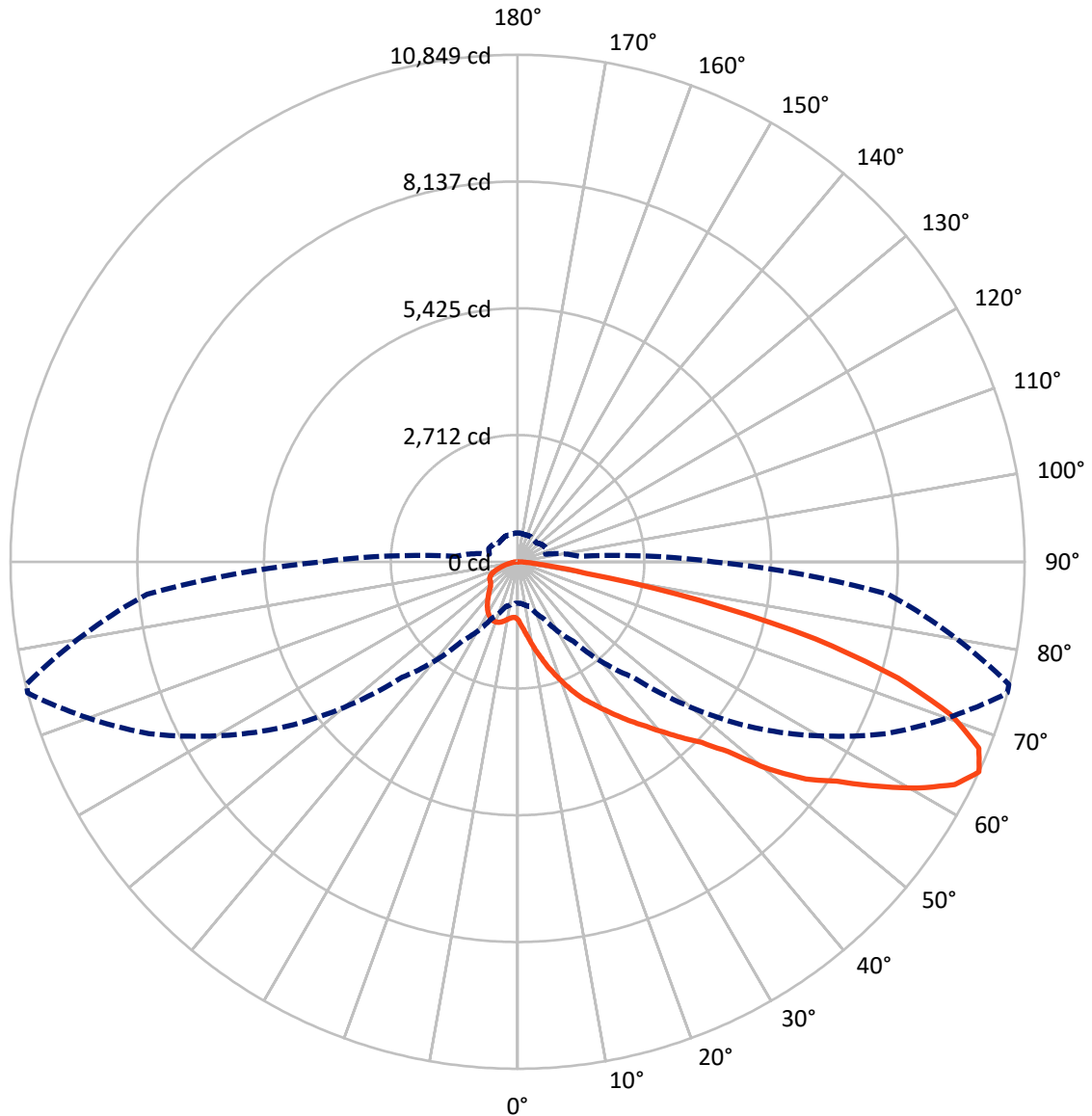
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P651254  
CATALOG NUMBER: GALN-SA2D-840-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P651254  
 CATALOG NUMBER: GALN-SA2D-840-U-T2R

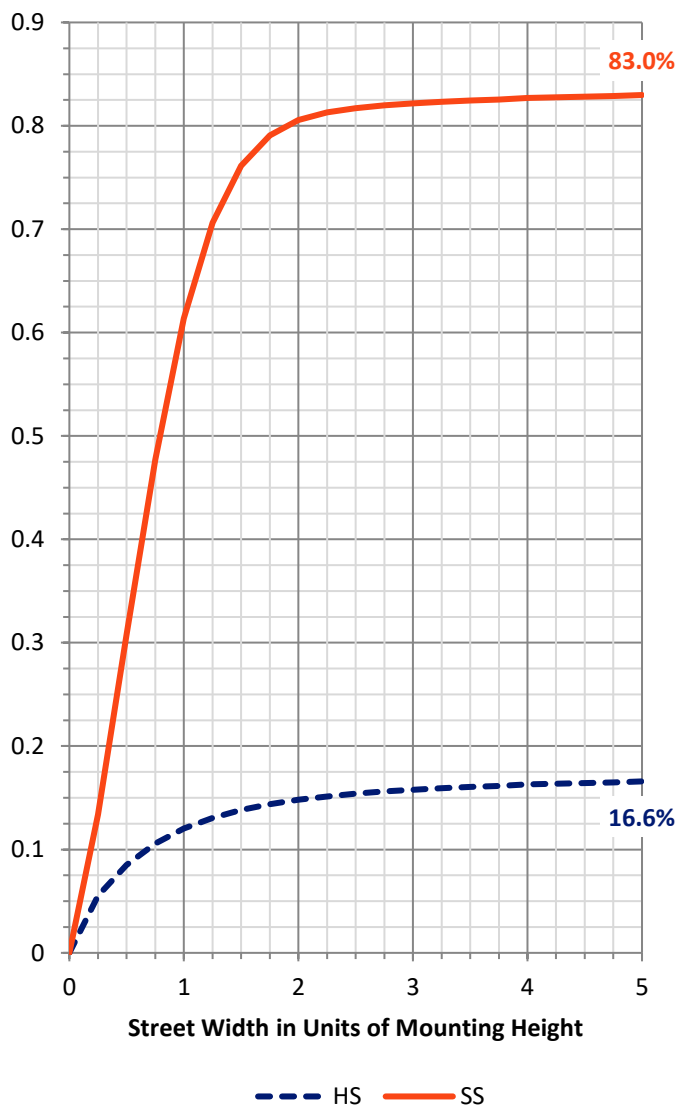
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.5	0.0	2241.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	11091.7	0.0	11091.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	13333.2	0.0	13333.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	1.1
10°-20°	589.5	4.4
20°-30°	1138.8	8.5
30°-40°	1849.7	13.9
40°-50°	2544.5	19.1
50°-60°	3004.2	22.5
60°-70°	2632.2	19.7
70°-80°	1256.6	9.4
80°-90°	167.2	1.3
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°	13333.2	100.0
0°-180°	13333.2	100.0

**Coefficient of Utilization**

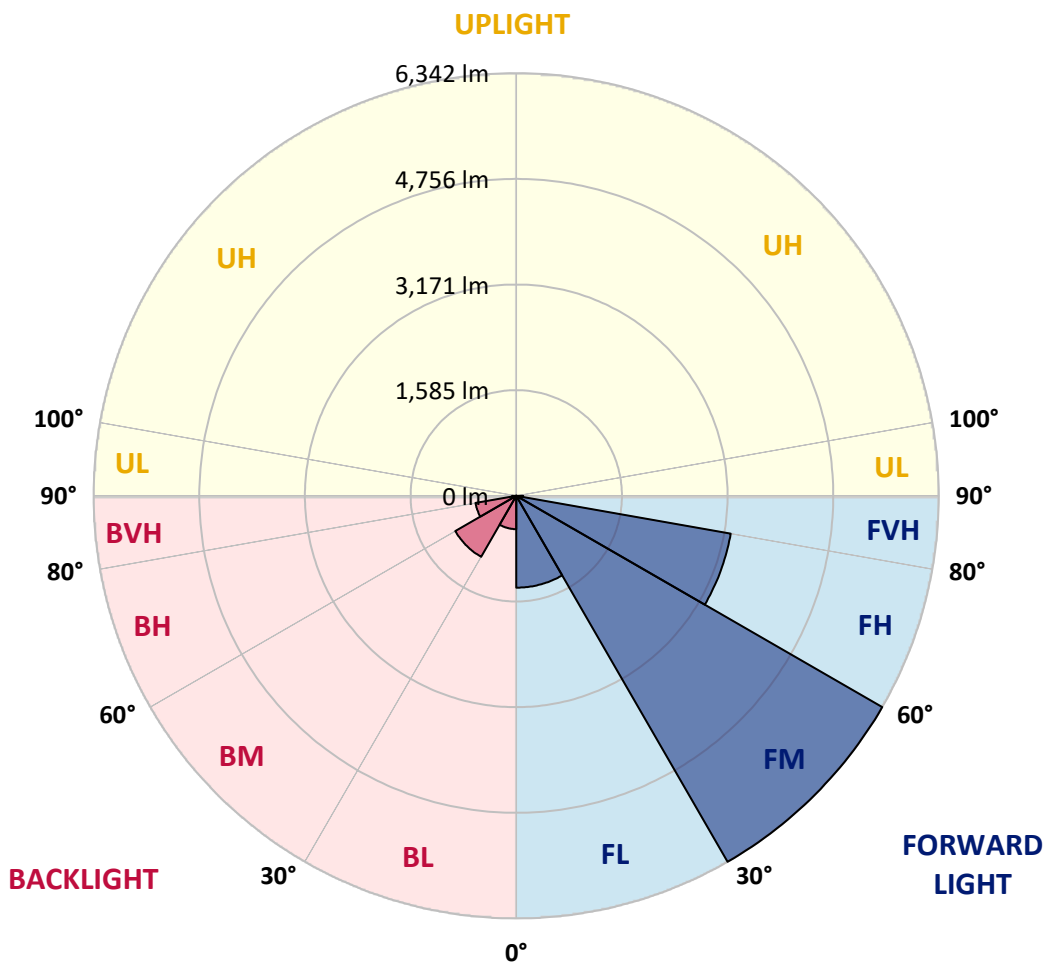


REPORT NUMBER: P651254  
 CATALOG NUMBER: GALN-SA2D-840-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.4	10.3			
FM (30°-60°)	6341.6	47.6			
FH (60°-80°)	3267.2	24.5			G2/5000
FVH (80°-90°)	104.5	0.8			G2/225
BL (0°-30°)	500.4	3.8	B2/1000		
BM (30°-60°)	1056.8	7.9	B2/2500		
BH (60°-80°)	621.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	62.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





REPORT NUMBER: P651254  
 CATALOG NUMBER: GALN-SA2D-840-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8
2.5°	1646.0	1635.2	1623.6	1591.8	1557.8	1519.4	1464.4	1411.7	1341.5	1339.4	1287.3
5°	2102.3	2095.1	2043.7	2014.1	1935.2	1830.4	1741.5	1603.3	1475.3	1460.1	1358.9
7.5°	2521.7	2493.6	2474.1	2420.5	2342.4	2207.9	2035.8	1849.2	1635.2	1614.9	1447.1
10°	2837.8	2834.9	2824.8	2778.5	2719.9	2586.2	2395.2	2127.6	1837.6	1797.9	1554.2
12.5°	3074.3	3076.5	3075.0	3074.3	3032.3	2918.8	2712.0	2429.9	2042.3	2014.1	1677.8
15°	3229.8	3251.5	3260.1	3296.3	3299.9	3224.0	3046.1	2722.1	2273.0	2231.0	1810.8
17.5°	3332.5	3343.3	3383.8	3445.2	3495.2	3481.4	3323.0	2992.5	2508.8	2438.6	1949.0
20°	3430.8	3449.6	3480.7	3564.6	3652.8	3693.3	3582.0	3269.6	2742.3	2697.5	2101.6
22.5°	3635.5	3662.2	3673.1	3715.8	3791.0	3862.5	3811.9	3535.0	2998.3	2937.6	2263.6
25°	3981.9	4010.1	3979.7	3969.6	3994.2	4029.7	4018.8	3785.2	3239.9	3153.1	2416.9
27.5°	4433.2	4436.8	4377.5	4321.1	4260.3	4242.3	4209.0	4007.2	3449.6	3377.3	2570.9
30°	4917.7	4900.3	4801.9	4700.0	4597.3	4496.1	4400.6	4221.2	3683.2	3600.1	2722.1
32.5°	5367.5	5358.1	5248.9	5090.6	4917.0	4821.5	4628.4	4437.5	3933.4	3853.1	2877.6
35°	5704.5	5718.3	5598.2	5425.4	5235.9	5151.3	4907.6	4664.6	4192.3	4104.8	3046.8
37.5°	5943.9	5936.7	5830.3	5680.6	5514.4	5440.6	5233.7	4912.6	4470.8	4386.9	3232.0
40°	6029.2	6024.9	5946.0	5836.9	5731.2	5705.3	5575.1	5180.2	4789.7	4691.4	3454.7
42.5°	5975.0	5984.4	5932.3	5902.6	5883.1	5902.0	5914.2	5530.9	5137.5	5047.2	3696.2
45°	5808.6	5803.6	5796.3	5844.8	5954.8	6078.4	6249.8	5862.2	5515.8	5443.5	4020.2
47.5°	5511.4	5547.6	5565.7	5699.5	5939.6	6232.5	6636.0	6306.2	6064.7	6001.7	4514.2
50°	5095.6	5124.5	5231.5	5469.4	5827.5	6290.3	7013.5	7032.3	6980.2	6862.3	5050.8
52.5°	4446.2	4491.0	4711.6	5147.7	5597.5	6266.5	7242.0	7655.0	7723.7	7635.4	5579.4
55°	3719.4	3782.3	4015.2	4587.2	5280.7	6136.3	7399.7	8015.8	8289.9	8208.2	6088.5
57.5°	3007.8	3074.3	3313.6	3867.6	4728.2	5848.4	7503.1	8417.9	9060.8	8954.5	6722.0
60°	2254.2	2323.6	2529.0	3099.6	3941.3	5285.8	7432.9	8766.5	9831.0	9785.5	7356.3
62.5°	1454.3	1531.0	1709.6	2181.9	3029.5	4517.0	7057.6	8958.8	10497.8	10442.9	7819.1
65°	885.9	894.6	993.0	1354.5	2073.4	3497.4	6199.2	8703.6	10849.3	10832.7	7960.1
67.5°	572.8	586.5	631.3	811.4	1243.2	2429.2	4956.8	7861.1	10643.9	10638.1	7668.7
70°	483.8	488.1	508.4	547.5	722.5	1473.1	3480.7	6518.1	9863.6	9863.6	6967.9
72.5°	432.4	438.2	445.5	457.8	515.6	834.5	2077.0	5073.9	8516.3	8572.6	5930.9
75°	392.7	391.2	395.6	397.8	439.7	545.3	1074.0	3752.6	6588.2	6475.4	4295.0
77.5°	336.3	338.4	336.3	345.7	388.4	415.1	545.3	2518.1	3992.7	3846.6	2155.8
80°	276.3	279.9	283.5	289.3	331.9	315.3	327.6	1147.7	1476.7	1445.7	666.1
82.5°	207.6	212.6	218.4	232.1	261.0	208.3	206.8	490.3	533.0	488.1	245.2
85°	83.9	99.1	149.7	163.4	164.2	114.3	127.2	204.7	217.7	212.6	96.2
87.5°	19.5	23.1	48.4	73.1	67.3	42.6	47.0	66.5	75.9	70.1	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651254  
 CATALOG NUMBER: GALN-SA2D-840-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8
2.5°	1263.4	1238.1	1194.7	1161.4	1137.5	1116.6	1103.6	1095.7	1092.7	1092.0	1092.7
5°	1306.1	1261.2	1192.5	1149.1	1125.3	1111.5	1103.6	1102.9	1103.6	1104.3	1102.1
7.5°	1364.7	1300.3	1210.6	1170.1	1152.0	1141.9	1138.3	1136.9	1137.5	1136.9	1136.9
10°	1442.7	1354.5	1246.0	1204.1	1188.9	1177.3	1171.6	1168.0	1165.0	1162.2	1160.7
12.5°	1528.9	1414.6	1284.4	1243.9	1222.2	1204.1	1191.1	1181.7	1175.2	1168.7	1167.2
15°	1625.0	1478.2	1327.0	1270.7	1239.5	1212.8	1190.4	1175.2	1163.6	1154.2	1153.5
17.5°	1716.8	1538.2	1355.9	1282.9	1237.4	1199.8	1170.1	1149.1	1134.7	1122.4	1121.0
20°	1815.2	1595.4	1369.0	1275.0	1215.7	1170.1	1131.1	1105.7	1089.1	1075.4	1073.2
22.5°	1914.3	1643.8	1367.6	1249.6	1178.1	1124.6	1083.4	1056.5	1037.0	1023.3	1018.3
25°	2009.0	1682.8	1349.5	1209.2	1126.0	1070.3	1028.4	1003.8	986.4	969.8	969.8
27.5°	2094.3	1706.0	1315.5	1160.0	1072.5	1013.9	980.6	958.2	942.3	931.5	924.9
30°	2178.3	1716.8	1269.2	1097.8	1016.1	966.1	939.4	926.4	912.0	899.6	898.2
32.5°	2253.5	1714.7	1211.4	1037.0	962.5	927.1	916.3	906.2	891.0	873.6	869.3
35°	2326.5	1700.2	1142.7	970.5	917.7	904.0	906.9	892.4	865.0	843.3	839.7
37.5°	2406.0	1674.2	1067.4	916.3	880.1	893.1	900.4	868.6	823.7	789.7	781.8
40°	2497.9	1644.5	989.4	862.0	850.5	883.0	883.0	824.4	763.0	742.0	736.2
42.5°	2605.7	1619.9	924.3	816.4	825.9	858.4	854.8	765.9	740.6	729.7	726.8
45°	2776.3	1611.3	857.0	776.7	805.6	829.5	799.9	745.6	731.2	722.5	719.6
47.5°	3046.1	1621.4	797.7	747.1	782.5	800.5	738.4	731.8	721.7	709.5	708.0
50°	3296.3	1612.0	755.7	730.4	762.3	765.9	713.1	715.3	709.5	695.7	692.8
52.5°	3501.0	1582.3	729.0	721.7	744.9	705.1	689.2	697.2	695.0	677.6	674.7
55°	3725.9	1564.3	715.9	721.7	733.4	652.3	666.7	678.4	675.5	663.1	662.5
57.5°	3998.5	1567.9	706.5	723.9	721.7	625.5	644.4	658.1	657.4	653.8	653.8
60°	4277.7	1569.3	692.1	723.2	708.0	604.6	621.2	640.8	642.2	644.4	644.4
62.5°	4370.3	1506.4	663.9	710.1	677.6	584.3	599.5	626.3	624.9	630.6	631.3
65°	4197.4	1332.1	621.9	680.5	638.6	569.9	582.9	607.5	599.5	614.7	617.6
67.5°	3820.6	1102.1	556.8	627.0	595.2	554.7	572.0	581.5	567.0	596.6	597.4
70°	3302.1	860.6	474.4	551.1	546.0	538.7	563.4	548.9	528.7	564.8	557.6
72.5°	2761.2	657.4	379.0	450.5	480.2	514.9	548.2	507.0	478.8	489.6	476.6
75°	2074.1	486.0	304.4	352.9	399.9	480.9	534.5	456.3	412.9	402.8	399.9
77.5°	1057.3	317.5	227.8	264.0	300.2	434.6	515.6	397.0	342.0	326.1	318.9
80°	377.5	197.5	160.5	182.2	202.5	373.9	450.5	328.3	265.4	262.5	265.4
82.5°	175.0	127.2	107.7	119.3	120.0	249.5	343.5	245.2	201.8	306.6	258.9
85°	75.2	63.7	60.7	59.3	55.0	111.3	193.1	131.6	205.4	91.8	84.6
87.5°	22.5	25.3	22.5	16.7	12.3	12.3	19.5	7.2	5.0	3.6	3.6
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)