

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: P647294

Luminaire Tested: **GALN-SA2D-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647294  
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-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 12413.7 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

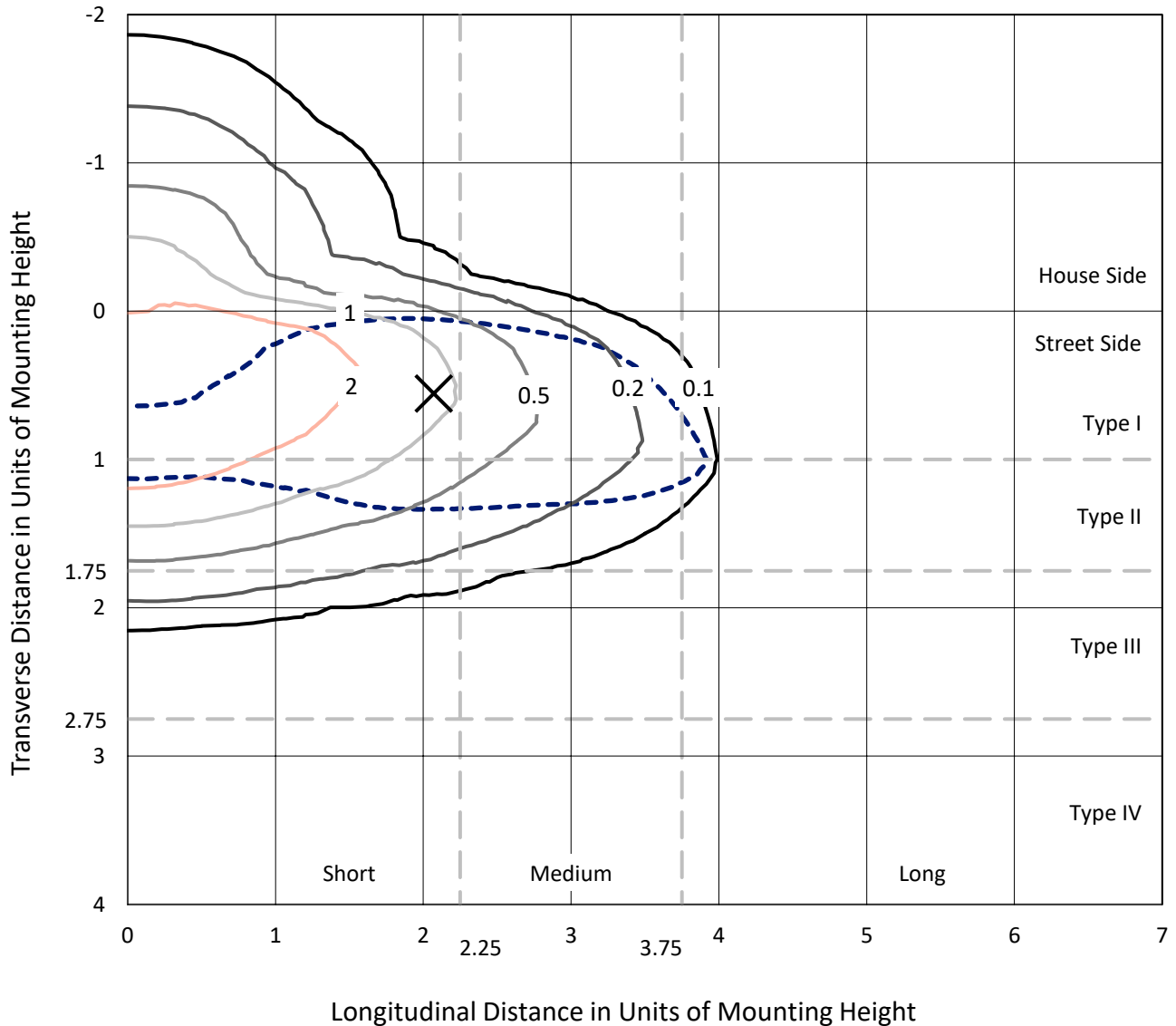
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

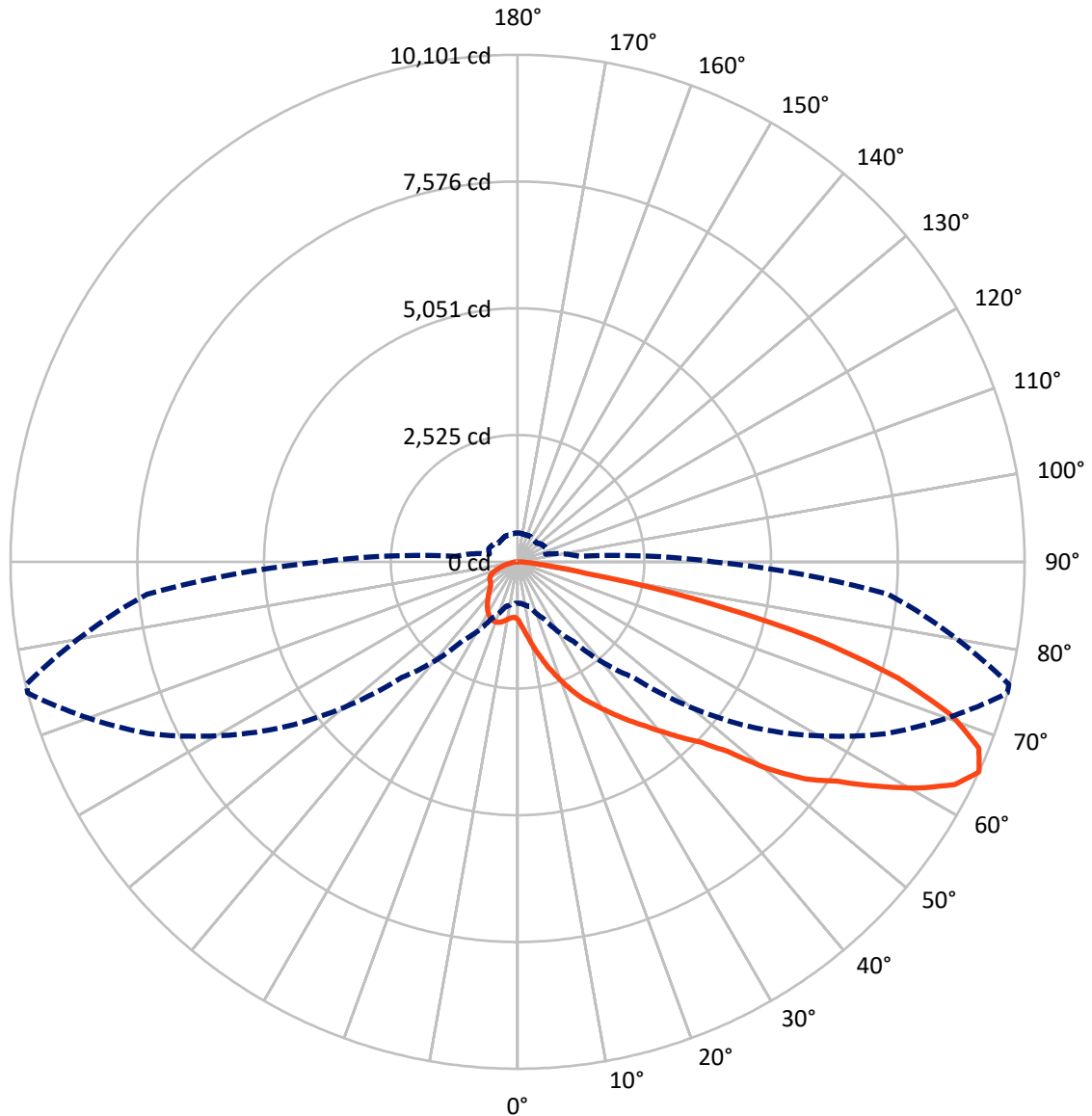
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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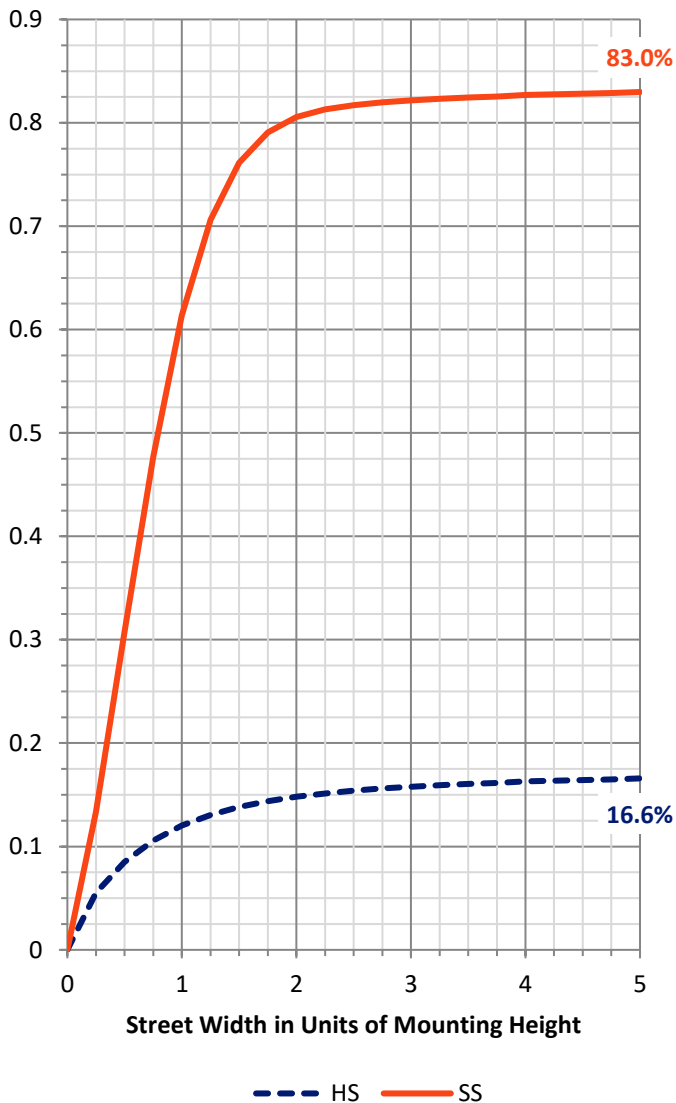
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2086.9	0.0	2086.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	10326.8	0.0	10326.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	12413.7	0.0	12413.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	1.1
10°-20°	548.9	4.4
20°-30°	1060.3	8.5
30°-40°	1722.2	13.9
40°-50°	2369.0	19.1
50°-60°	2797.0	22.5
60°-70°	2450.6	19.7
70°-80°	1170.0	9.4
80°-90°	155.7	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°	12413.7	100.0
0°-180°	12413.7	100.0

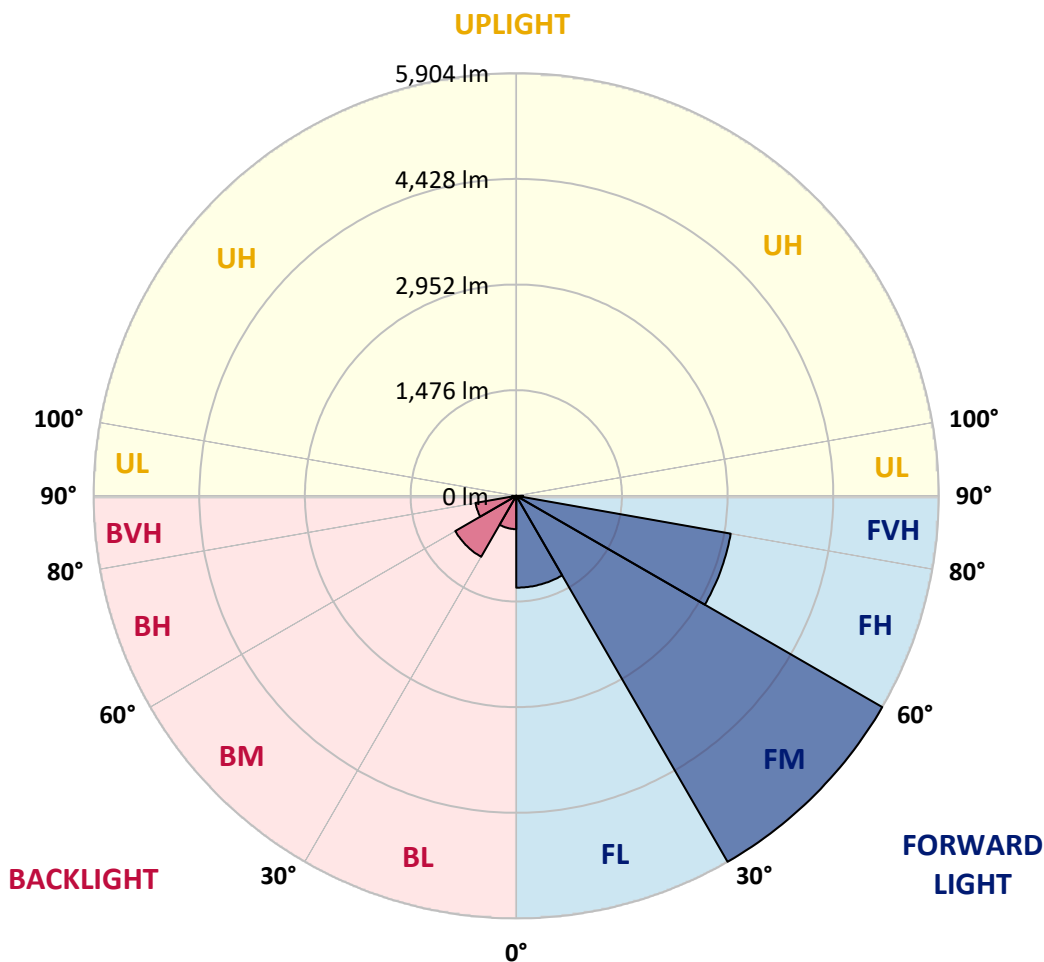


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.4	10.3			
FM (30°-60°)	5904.2	47.6			
FH (60°-80°)	3041.9	24.5			G2/5000
FVH (80°-90°)	97.3	0.8			G1/100
BL (0°-30°)	465.9	3.8	B1/500		
BM (30°-60°)	984.0	7.9	B1/1000		
BH (60°-80°)	578.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	58.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	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°	1532.5	1522.4	1511.6	1482.0	1450.4	1414.6	1363.4	1314.3	1249.0	1247.0	1198.5
5°	1957.3	1950.6	1902.8	1875.2	1801.8	1704.1	1621.4	1492.7	1373.5	1359.4	1265.2
7.5°	2347.8	2321.6	2303.4	2253.6	2180.9	2055.6	1895.4	1721.7	1522.4	1503.5	1347.3
10°	2642.1	2639.4	2629.9	2586.9	2532.3	2407.8	2230.0	1980.9	1710.9	1673.9	1447.0
12.5°	2862.3	2864.3	2863.0	2862.3	2823.2	2717.5	2524.9	2262.3	1901.4	1875.2	1562.1
15°	3007.0	3027.2	3035.3	3069.0	3072.3	3001.6	2836.0	2534.3	2116.2	2077.1	1686.0
17.5°	3102.6	3112.7	3150.4	3207.6	3254.1	3241.3	3093.9	2786.1	2335.8	2270.4	1814.6
20°	3194.2	3211.7	3240.7	3318.7	3400.9	3438.6	3335.0	3044.1	2553.2	2511.5	1956.6
22.5°	3384.8	3409.7	3419.8	3459.5	3529.5	3596.2	3549.0	3291.2	2791.6	2735.0	2107.4
25°	3707.3	3733.5	3705.2	3695.8	3718.7	3751.7	3741.6	3524.1	3016.4	2935.6	2250.2
27.5°	4127.4	4130.8	4075.6	4023.1	3966.5	3949.7	3918.7	3730.8	3211.7	3144.4	2393.6
30°	4578.5	4562.4	4470.8	4375.9	4280.3	4186.0	4097.1	3930.1	3429.2	3351.8	2534.3
32.5°	4997.3	4988.6	4886.9	4739.5	4577.9	4489.0	4309.2	4131.4	3662.2	3587.4	2679.1
35°	5311.1	5323.9	5212.1	5051.2	4874.8	4796.0	4569.1	4342.9	3903.2	3821.7	2836.7
37.5°	5534.0	5527.3	5428.2	5288.9	5134.1	5065.4	4872.8	4573.8	4162.4	4084.4	3009.1
40°	5613.4	5609.4	5536.0	5434.3	5336.0	5311.8	5190.6	4823.0	4459.3	4367.8	3216.4
42.5°	5562.9	5571.7	5523.2	5495.6	5477.4	5494.9	5506.4	5149.5	4783.2	4699.1	3441.3
45°	5408.0	5403.3	5396.6	5441.7	5544.1	5659.2	5818.8	5457.9	5135.4	5068.0	3743.0
47.5°	5131.3	5165.0	5181.8	5306.4	5529.9	5802.7	6178.3	5871.3	5646.4	5587.8	4202.8
50°	4744.2	4771.1	4870.7	5092.2	5425.6	5856.5	6529.8	6547.3	6498.8	6389.0	4702.5
52.5°	4139.6	4181.3	4386.7	4792.7	5211.5	5834.3	6742.6	7127.0	7191.0	7108.9	5194.7
55°	3462.9	3521.5	3738.3	4270.8	4916.5	5713.1	6889.4	7463.0	7718.2	7642.2	5668.6
57.5°	2800.3	2862.3	3085.1	3600.9	4402.1	5445.1	6985.6	7837.4	8436.0	8337.0	6258.4
60°	2098.8	2163.4	2354.6	2885.8	3669.5	4921.2	6920.3	8161.9	9153.0	9110.6	6849.0
62.5°	1354.0	1425.4	1591.7	2031.4	2820.5	4205.5	6570.9	8341.0	9773.8	9722.7	7279.9
65°	824.8	832.9	924.5	1261.1	1930.4	3256.2	5771.6	8103.3	10101.1	10085.6	7411.2
67.5°	533.3	546.1	587.8	755.4	1157.4	2261.7	4614.9	7318.9	9909.8	9904.5	7139.9
70°	450.5	454.5	473.3	509.7	672.7	1371.5	3240.7	6068.6	9183.3	9183.3	6487.4
72.5°	402.6	408.0	414.8	426.2	480.1	777.0	1933.8	4724.0	7929.0	7981.4	5521.9
75°	365.6	364.3	368.3	370.4	409.4	507.7	999.9	3493.8	6133.9	6028.9	3998.8
77.5°	313.1	315.1	313.1	321.8	361.6	386.5	507.7	2344.5	3717.4	3581.4	2007.1
80°	257.2	260.6	263.9	269.4	309.1	293.5	305.0	1068.6	1374.9	1346.0	620.1
82.5°	193.2	197.9	203.3	216.1	243.0	193.9	192.5	456.5	496.3	454.5	228.2
85°	78.1	92.2	139.4	152.1	152.8	106.4	118.5	190.6	202.6	197.9	89.6
87.5°	18.2	21.5	45.1	68.0	62.6	39.7	43.8	61.9	70.7	65.3	30.3
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°	1176.3	1152.7	1112.3	1081.3	1059.1	1039.6	1027.5	1020.1	1017.4	1016.7	1017.4
5°	1216.0	1174.3	1110.3	1069.9	1047.7	1034.9	1027.5	1026.8	1027.5	1028.2	1026.1
7.5°	1270.6	1210.6	1127.1	1089.4	1072.6	1063.2	1059.8	1058.5	1059.1	1058.5	1058.5
10°	1343.2	1261.1	1160.1	1121.1	1106.9	1096.1	1090.8	1087.4	1084.7	1082.0	1080.7
12.5°	1423.4	1317.0	1195.8	1158.1	1137.9	1121.1	1109.0	1100.2	1094.2	1088.1	1086.7
15°	1512.9	1376.3	1235.5	1183.0	1154.1	1129.2	1108.3	1094.2	1083.4	1074.6	1074.0
17.5°	1598.4	1432.1	1262.4	1194.5	1152.0	1117.0	1089.4	1069.9	1056.4	1045.0	1043.7
20°	1690.0	1485.4	1274.6	1187.0	1131.8	1089.4	1053.1	1029.5	1014.0	1001.2	999.2
22.5°	1782.3	1530.5	1273.2	1163.5	1096.8	1047.0	1008.7	983.7	965.5	952.8	948.1
25°	1870.4	1566.8	1256.4	1125.8	1048.4	996.5	957.5	934.6	918.4	902.9	902.9
27.5°	1949.9	1588.3	1224.8	1080.0	998.6	944.0	913.0	892.2	877.4	867.3	861.1
30°	2028.0	1598.4	1181.7	1022.1	946.0	899.5	874.6	862.6	849.1	837.6	836.2
32.5°	2098.0	1596.5	1127.8	965.5	896.1	863.2	853.1	843.7	829.5	813.4	809.3
35°	2166.1	1583.0	1063.9	903.6	854.4	841.6	844.3	830.8	805.3	785.1	781.7
37.5°	2240.1	1558.7	993.8	853.1	819.4	831.5	838.3	808.7	766.9	735.2	727.9
40°	2325.7	1531.1	921.1	802.6	791.8	822.2	822.2	767.6	710.3	690.8	685.4
42.5°	2426.0	1508.2	860.5	760.1	768.9	799.2	795.8	713.1	689.5	679.4	676.7
45°	2584.8	1500.1	797.9	723.2	750.0	772.3	744.7	694.2	680.7	672.7	669.9
47.5°	2836.0	1509.5	742.7	695.5	728.5	745.3	687.5	681.4	672.0	660.5	659.2
50°	3069.0	1500.9	703.6	680.0	709.7	713.1	663.9	665.9	660.5	647.7	645.0
52.5°	3259.6	1473.2	678.7	672.0	693.5	656.5	641.7	649.1	647.1	630.9	628.2
55°	3468.9	1456.4	666.6	672.0	682.8	607.3	620.8	631.6	628.9	617.4	616.8
57.5°	3722.8	1459.7	657.8	674.0	672.0	582.4	599.9	612.7	612.1	608.7	608.7
60°	3982.7	1461.1	644.3	673.3	659.2	562.9	578.4	596.6	597.9	599.9	599.9
62.5°	4068.9	1402.5	618.1	661.2	630.9	544.0	558.2	583.1	581.8	587.1	587.8
65°	3908.0	1240.3	579.0	633.6	594.5	530.6	542.7	565.6	558.2	572.3	575.0
67.5°	3557.1	1026.1	518.4	583.7	554.1	516.5	532.6	541.4	527.9	555.5	556.2
70°	3074.4	801.2	441.7	513.1	508.3	501.6	524.5	511.1	492.2	525.9	519.1
72.5°	2570.7	612.1	352.8	419.5	447.1	479.4	510.4	472.0	445.8	455.9	443.7
75°	1931.0	452.5	283.4	328.5	372.3	447.7	497.6	424.9	384.5	375.1	372.3
77.5°	984.4	295.6	212.1	245.8	279.5	404.7	480.1	369.7	318.4	303.6	296.9
80°	351.5	183.8	149.5	169.7	188.5	348.1	419.5	305.7	247.1	244.4	247.1
82.5°	162.9	118.5	100.3	111.1	111.7	232.3	319.9	228.2	187.8	285.5	241.1
85°	70.0	59.3	56.5	55.2	51.2	103.7	179.8	122.5	191.2	85.5	78.8
87.5°	20.9	23.6	20.9	15.5	11.4	11.4	18.2	6.7	4.7	3.4	3.4
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)