

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: P647800

Luminaire Tested: **GALN-SA2A-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7184.8 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

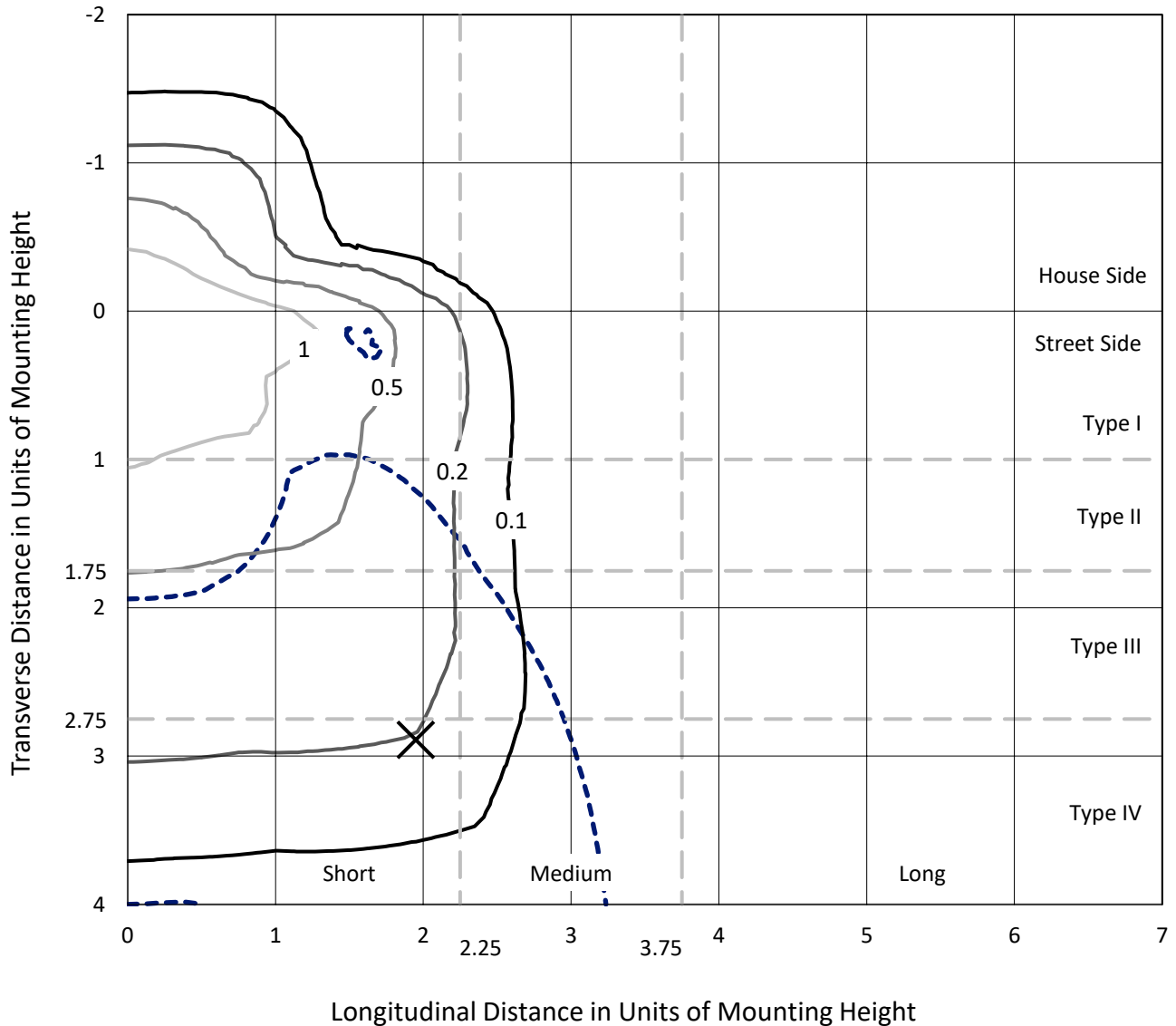
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

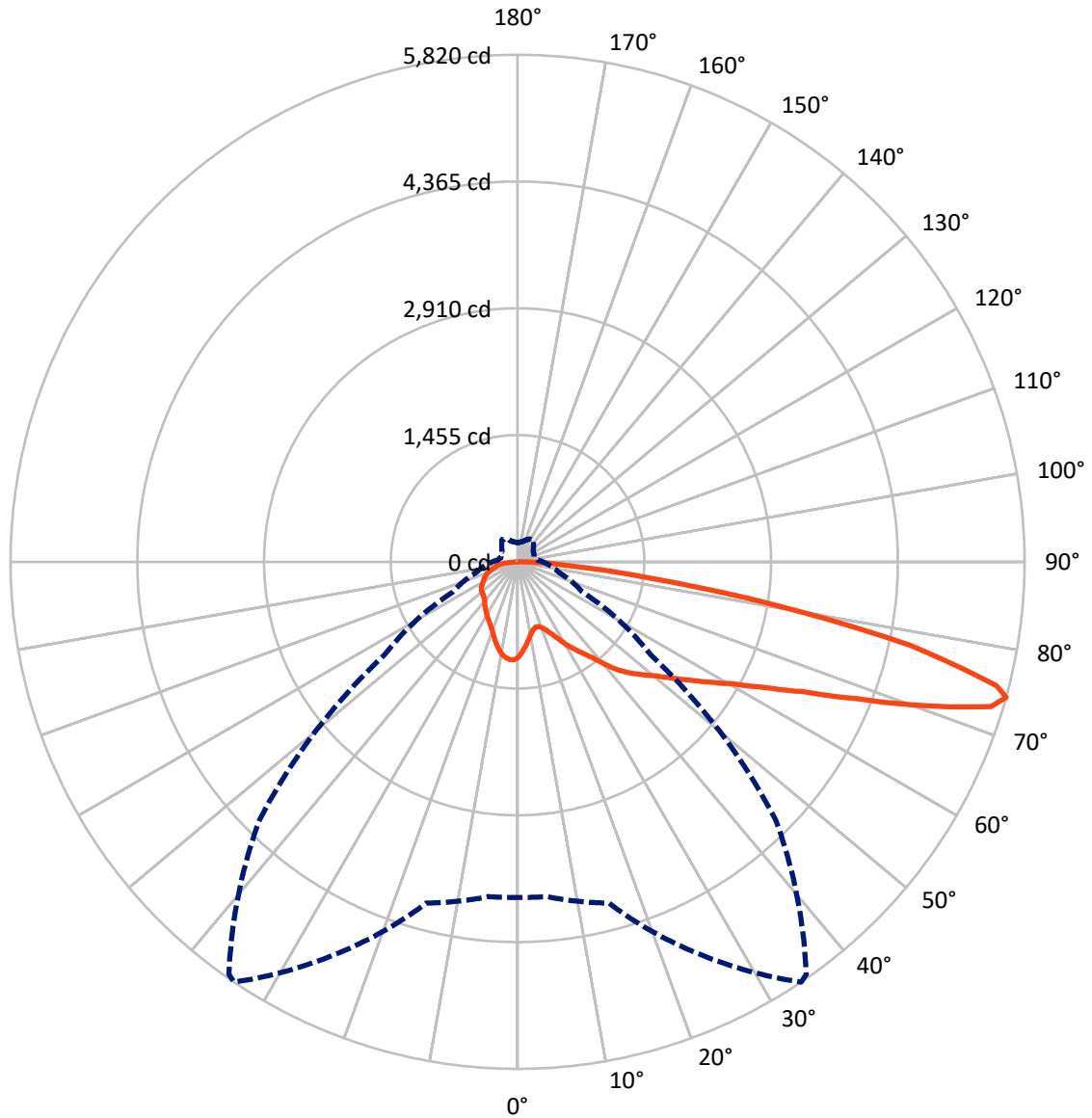
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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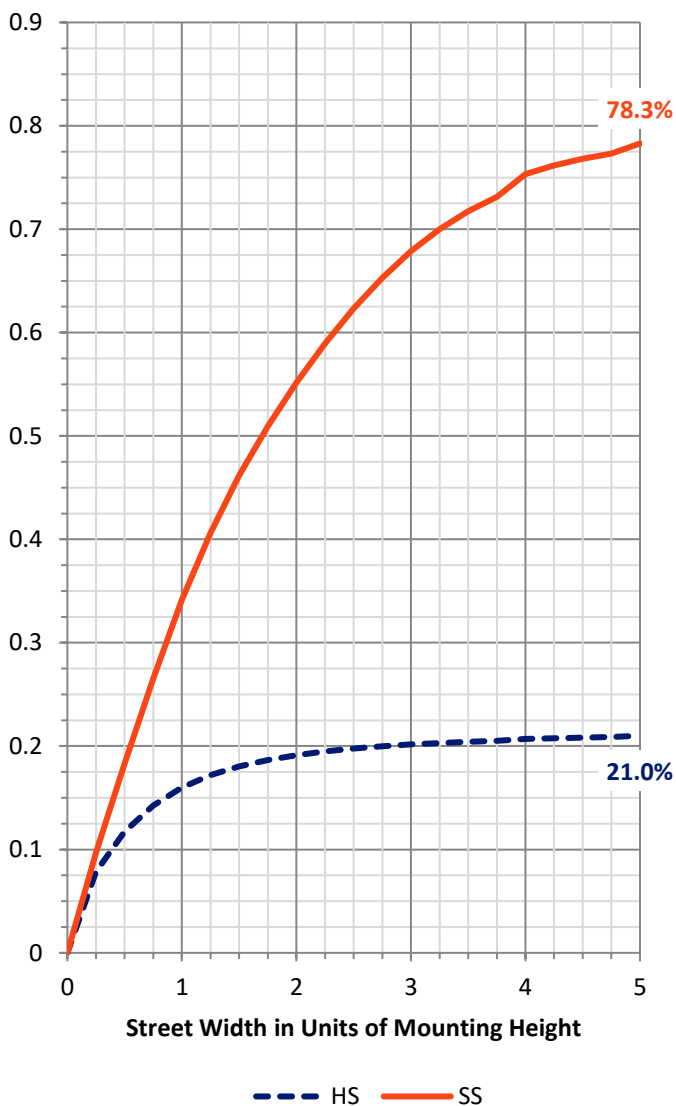
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1529.0	0.0	1529.0
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	5655.8	0.0	5655.8
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	7184.8	0.0	7184.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	1.4
10°-20°	273.1	3.8
20°-30°	450.3	6.3
30°-40°	674.5	9.4
40°-50°	980.5	13.6
50°-60°	1369.5	19.1
60°-70°	1714.5	23.9
70°-80°	1417.8	19.7
80°-90°	204.9	2.9
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°	7184.8	100.0
0°-180°	7184.8	100.0

**Coefficient of Utilization**

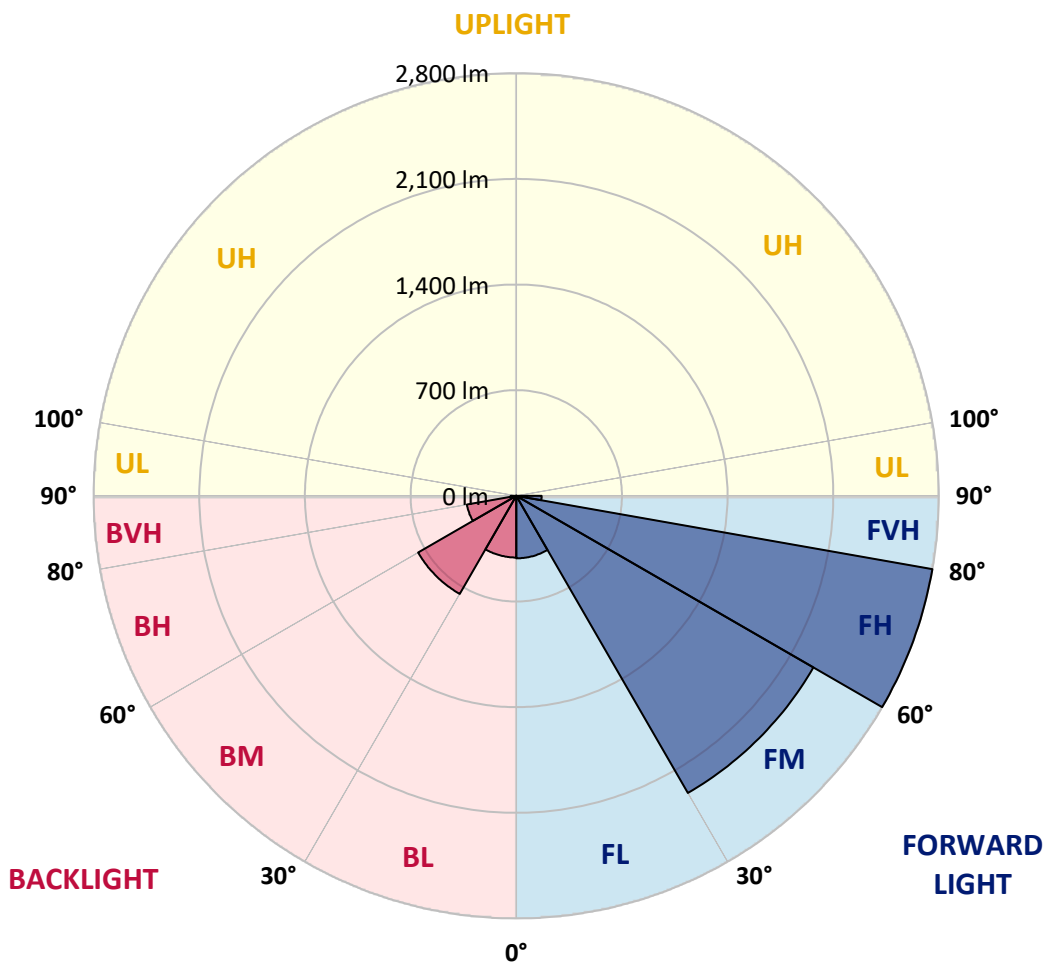


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.2	5.8			
FM (30°-60°)	2273.6	31.6			
FH (60°-80°)	2800.3	39.0			G2/5000
FVH (80°-90°)	167.8	2.3			G2/225
BL (0°-30°)	409.0	5.7	B1/500		
BM (30°-60°)	750.9	10.5	B1/1000		
BH (60°-80°)	332.1	4.6	B1/500		G1/500
BVH (80°-90°)	37.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1013.8	1019.0	1021.7	1031.7	1034.1	1037.2	1045.6	1056.8	1071.1	1083.8	1095.0
5°	929.4	937.3	942.1	950.9	968.0	969.6	991.9	1017.4	1046.4	1073.5	1095.8
7.5°	849.4	858.2	862.2	878.1	900.8	904.4	936.9	977.2	1025.7	1066.8	1101.0
10°	789.3	793.6	802.4	814.4	841.4	843.8	886.4	940.1	1003.0	1063.5	1109.7
12.5°	756.7	759.0	761.1	773.8	800.5	804.1	848.6	909.5	985.1	1065.9	1124.1
15°	761.5	762.3	753.5	755.8	777.4	782.5	826.7	889.2	974.0	1071.9	1145.5
17.5°	801.6	798.8	777.4	766.2	781.4	783.7	822.3	881.3	968.8	1083.0	1167.8
20°	864.9	860.9	824.0	799.3	808.0	810.0	836.6	887.2	974.0	1101.4	1202.5
22.5°	943.7	942.1	886.0	856.1	855.7	855.7	869.7	908.7	989.5	1126.4	1238.7
25°	1054.0	1045.6	972.4	933.8	923.0	922.2	920.7	944.1	1009.4	1153.1	1281.7
27.5°	1167.1	1152.7	1087.4	1028.2	1005.1	1002.2	991.9	994.3	1034.9	1183.3	1330.6
30°	1268.5	1259.4	1198.1	1132.4	1105.0	1098.5	1069.9	1056.8	1077.5	1237.8	1408.6
32.5°	1346.1	1340.6	1292.8	1233.1	1192.5	1191.3	1149.5	1138.8	1144.0	1303.9	1497.8
35°	1409.0	1411.0	1386.8	1335.0	1288.4	1281.7	1253.8	1240.3	1225.2	1399.5	1610.0
37.5°	1495.0	1499.4	1497.8	1453.2	1396.3	1397.9	1391.5	1369.2	1329.1	1506.2	1734.7
40°	1589.7	1592.9	1592.5	1575.4	1545.6	1547.1	1544.8	1519.3	1459.2	1641.9	1873.2
42.5°	1720.7	1705.6	1666.1	1683.3	1700.8	1708.3	1724.7	1700.4	1618.0	1786.8	2003.3
45°	1867.1	1838.5	1749.4	1757.3	1822.2	1836.5	1926.5	1893.1	1790.3	1953.1	2156.5
47.5°	1959.5	1931.3	1856.0	1854.5	1940.4	1954.4	2113.6	2101.2	1947.2	2132.7	2343.6
50°	2041.9	2037.9	1953.1	1973.5	2057.4	2078.2	2317.4	2305.8	2103.6	2344.4	2547.4
52.5°	2164.1	2131.9	2064.2	2106.0	2217.1	2244.1	2519.5	2485.7	2247.3	2531.5	2745.2
55°	2219.0	2211.5	2207.5	2243.7	2396.1	2415.6	2716.1	2638.6	2369.9	2689.9	2895.7
57.5°	2365.9	2352.0	2391.4	2416.0	2607.1	2637.0	2921.5	2798.2	2477.3	2815.7	2968.9
60°	2556.2	2548.6	2584.8	2629.4	2842.8	2888.1	3155.6	2934.3	2563.7	2878.9	2928.7
62.5°	2840.3	2839.5	2832.8	2928.3	3176.7	3218.5	3424.3	3066.9	2577.2	2831.6	2720.9
65°	3248.0	3233.6	3174.7	3279.0	3592.2	3641.2	3704.1	3140.8	2495.7	2588.4	2291.1
67.5°	3674.2	3673.4	3625.7	3761.0	4188.9	4239.5	4054.0	3124.6	2269.2	2096.9	1627.2
70°	4027.7	4010.6	4071.4	4432.1	4951.1	5009.6	4360.1	2932.3	1807.5	1384.7	966.8
72.5°	4112.5	4113.3	4239.9	4949.5	5683.1	5692.3	4470.3	2376.6	1209.7	763.8	483.6
74°	3851.3	3858.2	4054.4	4975.4	5819.6	5778.2	4188.5	1868.0	817.9	498.8	348.7
75°	3515.4	3472.8	3756.6	4803.1	5677.9	5633.4	3858.5	1499.0	624.1	398.5	305.3
77.5°	1879.5	1922.9	2360.7	3584.3	4612.8	4561.4	2616.2	718.9	337.2	277.4	219.7
80°	669.1	738.0	1037.2	1875.5	2957.4	2973.3	1248.7	329.6	237.2	204.6	155.3
82.5°	273.0	280.6	445.4	832.3	1501.8	1516.1	509.9	195.8	169.6	140.9	92.7
85°	106.6	109.9	197.0	374.1	640.8	682.6	176.3	103.5	104.3	80.8	47.4
87.5°	35.9	40.6	80.8	124.6	217.8	213.4	51.4	30.6	37.4	35.0	14.7
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°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1100.6	1108.1	1113.3	1118.9	1124.1	1125.6	1124.5	1128.0	1128.5	1128.9	1129.2
5°	1106.9	1117.3	1127.2	1132.8	1135.2	1133.2	1126.4	1122.8	1119.7	1117.3	1118.0
7.5°	1115.7	1130.4	1139.6	1141.9	1135.6	1126.4	1109.7	1096.6	1088.2	1082.7	1082.3
10°	1129.2	1143.6	1151.1	1144.4	1126.8	1104.6	1078.3	1053.6	1034.9	1029.3	1028.9
12.5°	1146.3	1162.7	1162.3	1142.3	1111.7	1071.9	1029.3	1000.7	975.1	962.5	967.6
15°	1168.6	1181.0	1169.4	1133.6	1085.0	1030.5	978.0	939.0	910.3	896.8	897.6
17.5°	1194.5	1205.3	1174.6	1118.0	1047.7	977.6	916.7	879.6	857.0	847.0	846.2
20°	1226.7	1229.9	1174.6	1091.0	999.4	915.9	857.8	831.9	819.2	814.0	815.6
22.5°	1261.3	1255.0	1168.2	1052.8	936.2	851.4	812.4	800.9	794.5	793.6	794.5
25°	1300.4	1282.5	1155.1	1001.1	870.1	795.7	773.0	774.9	776.2	776.2	778.9
27.5°	1348.2	1312.3	1133.2	935.8	792.9	743.9	737.6	751.5	757.9	759.0	761.1
30°	1411.0	1345.0	1097.0	854.2	727.2	697.3	708.5	727.2	734.4	738.8	738.0
32.5°	1485.8	1380.7	1048.0	772.6	674.2	664.7	678.2	697.3	705.3	707.7	704.5
35°	1573.8	1421.4	983.5	696.2	628.1	633.7	649.6	655.5	662.7	662.7	664.3
37.5°	1668.6	1454.0	904.8	626.1	592.3	612.5	624.1	618.6	615.4	611.4	613.4
40°	1764.9	1478.3	802.4	556.9	556.5	590.7	593.8	577.9	565.2	561.3	559.2
42.5°	1848.9	1493.4	710.1	503.1	522.7	569.2	571.6	546.1	525.8	513.9	509.9
45°	1947.9	1511.0	619.7	458.5	491.2	552.1	558.0	523.8	494.0	468.9	462.5
47.5°	2083.7	1550.7	548.5	423.9	468.5	541.3	549.7	505.5	466.1	433.5	428.3
50°	2237.0	1605.2	493.1	400.4	451.0	531.7	542.1	486.8	440.2	404.0	400.0
52.5°	2377.4	1634.7	445.4	379.4	433.9	514.3	532.2	473.2	414.8	374.6	371.0
55°	2454.2	1587.0	398.5	358.6	410.4	491.6	518.3	454.5	390.1	359.0	353.8
57.5°	2464.6	1488.2	355.9	336.3	385.7	463.7	492.4	431.9	374.1	348.3	343.9
60°	2384.6	1341.0	322.8	318.1	360.6	432.3	463.3	411.9	357.8	336.3	332.0
62.5°	2185.6	1181.0	299.7	301.3	335.1	399.3	441.8	392.8	342.3	323.2	319.2
65°	1843.3	974.8	277.4	284.2	312.4	373.3	422.4	376.9	326.7	313.3	309.7
67.5°	1280.4	703.8	259.1	266.3	291.0	347.1	399.6	359.8	309.3	302.1	296.5
70°	708.9	433.1	237.6	246.0	268.6	317.7	374.1	333.9	283.8	280.6	272.6
72.5°	372.6	275.9	213.4	222.5	238.4	279.8	335.1	305.7	258.7	245.2	234.8
74°	291.0	226.1	197.0	206.6	217.4	257.5	312.0	285.4	240.8	224.9	216.9
75°	253.5	201.4	183.1	195.4	205.0	242.4	294.2	271.1	230.8	215.7	208.6
77.5°	179.2	150.9	149.6	164.4	169.6	212.6	265.1	246.8	205.8	189.9	183.1
80°	125.7	113.1	118.6	127.8	134.9	187.8	246.0	213.4	168.7	150.0	147.7
82.5°	82.0	74.1	84.8	93.2	95.5	138.5	198.6	162.0	123.0	99.9	92.7
85°	37.8	37.0	48.5	47.4	47.0	67.7	117.8	94.7	70.9	52.9	49.7
87.5°	9.6	9.2	12.0	9.9	12.0	10.3	10.7	2.8	0.4	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)