

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: P526554

Luminaire Tested: **GALN-SA1C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5524 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

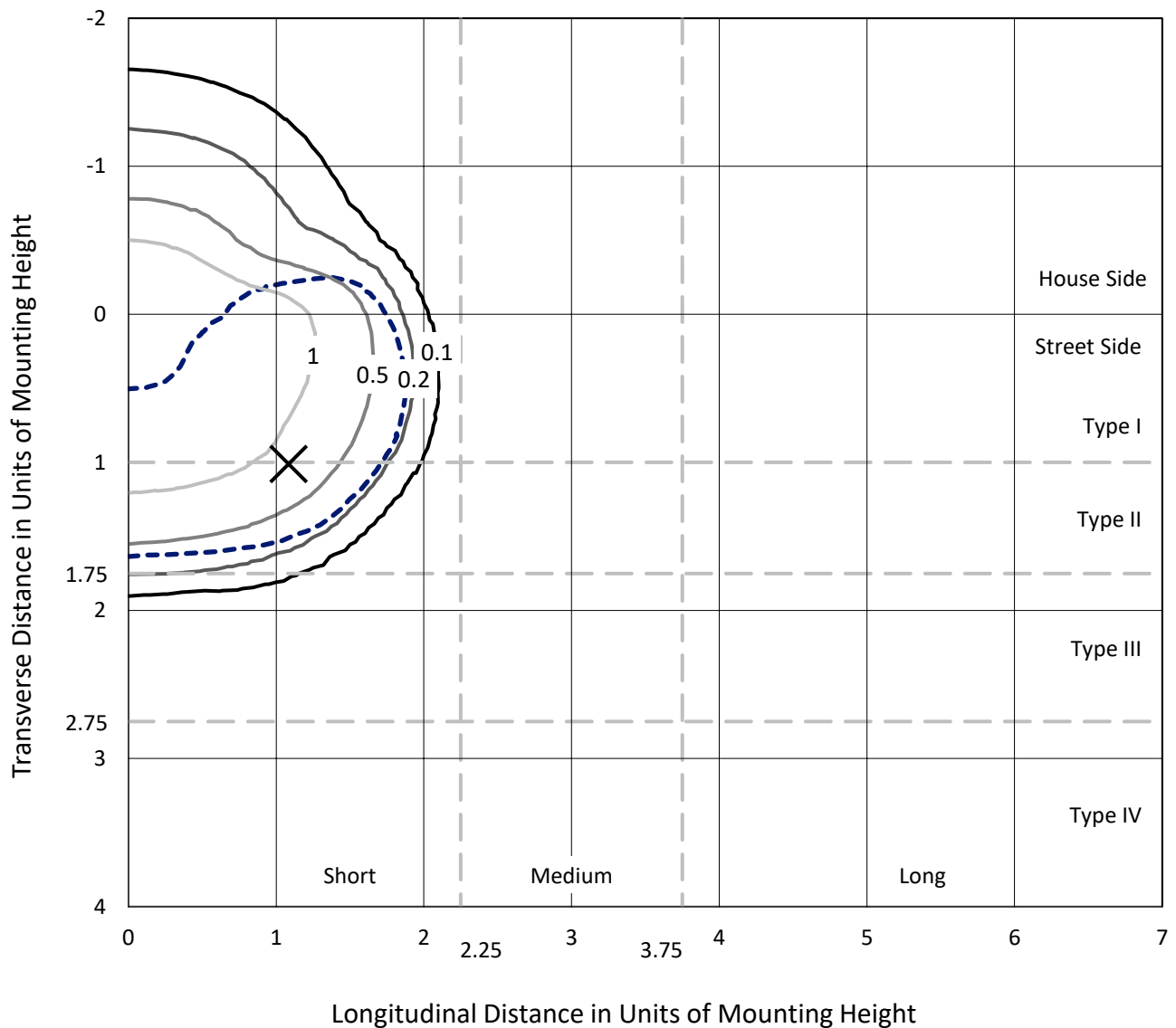
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

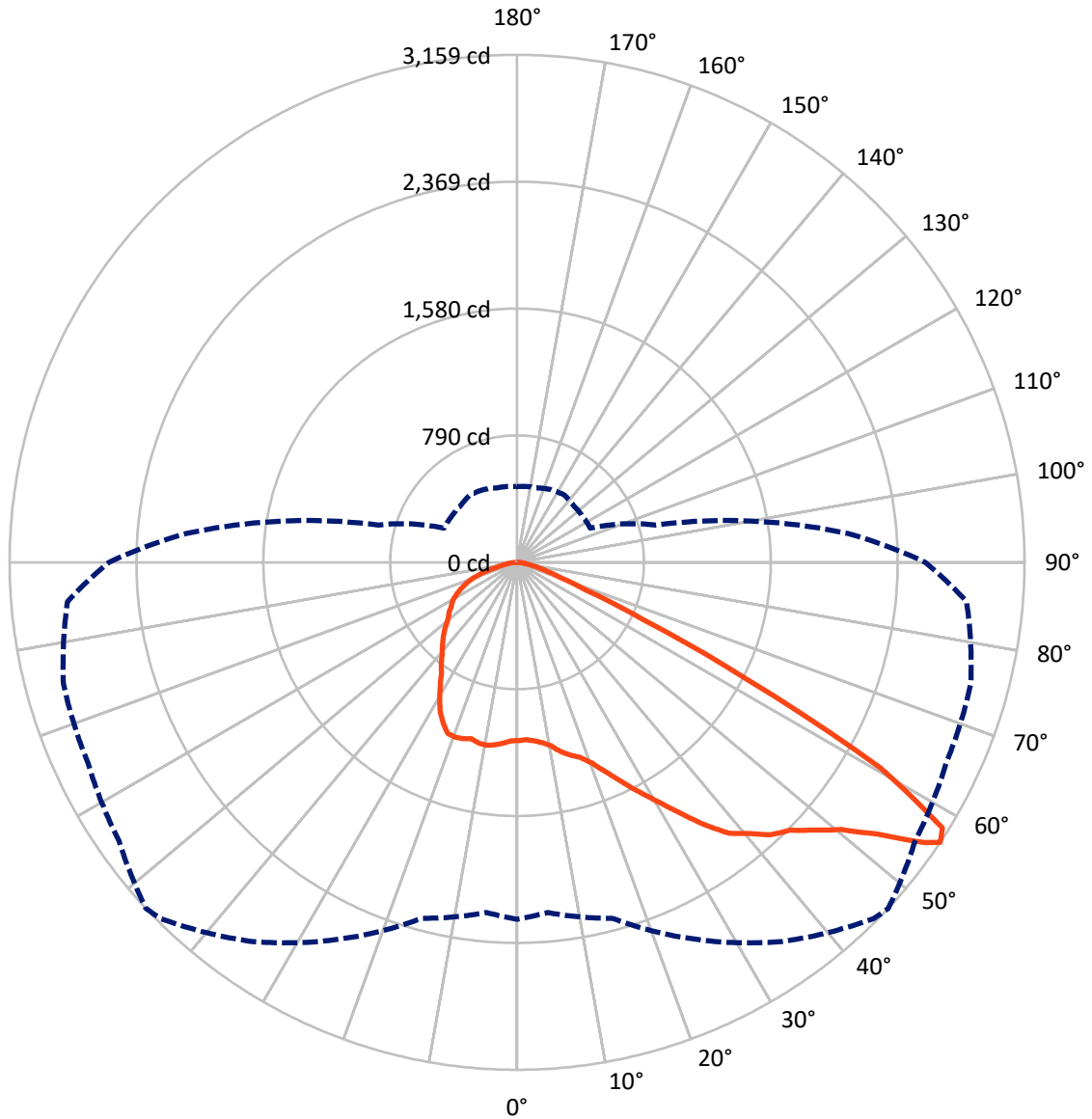
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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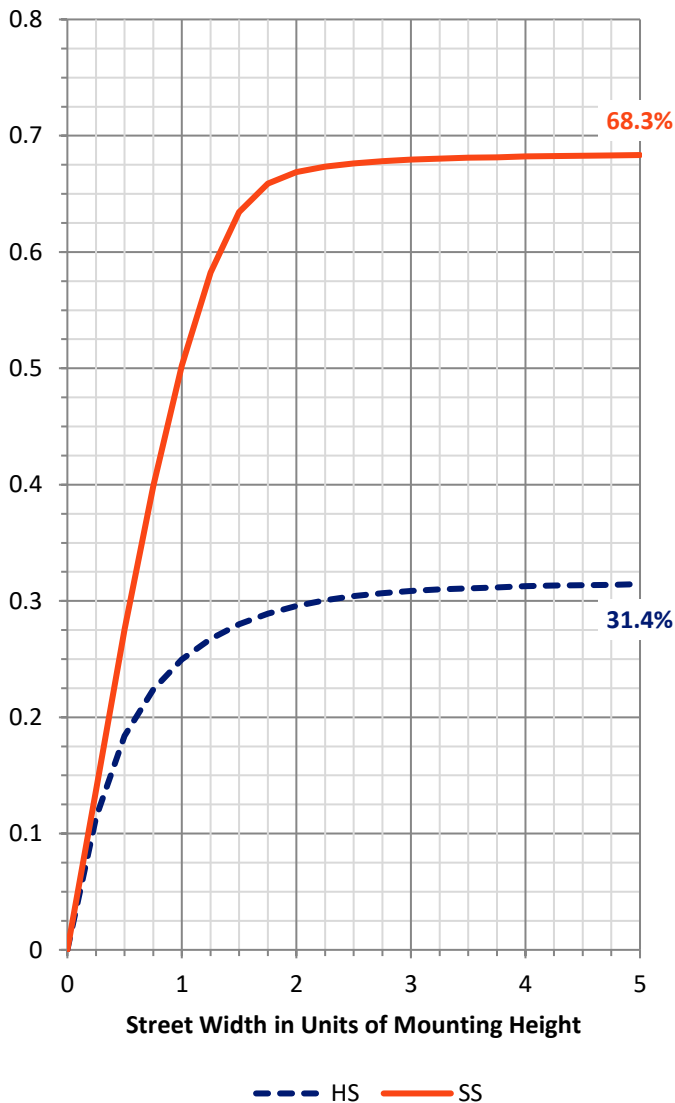
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1750.5	0.0	1750.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3773.5	0.0	3773.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	5524.0	0.0	5524.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	2.0
10°-20°	341.1	6.2
20°-30°	602.9	10.9
30°-40°	905.5	16.4
40°-50°	1242.8	22.5
50°-60°	1480.6	26.8
60°-70°	633.6	11.5
70°-80°	179.3	3.2
80°-90°	30.2	0.5
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°	5524.0	100.0
0°-180°	5524.0	100.0



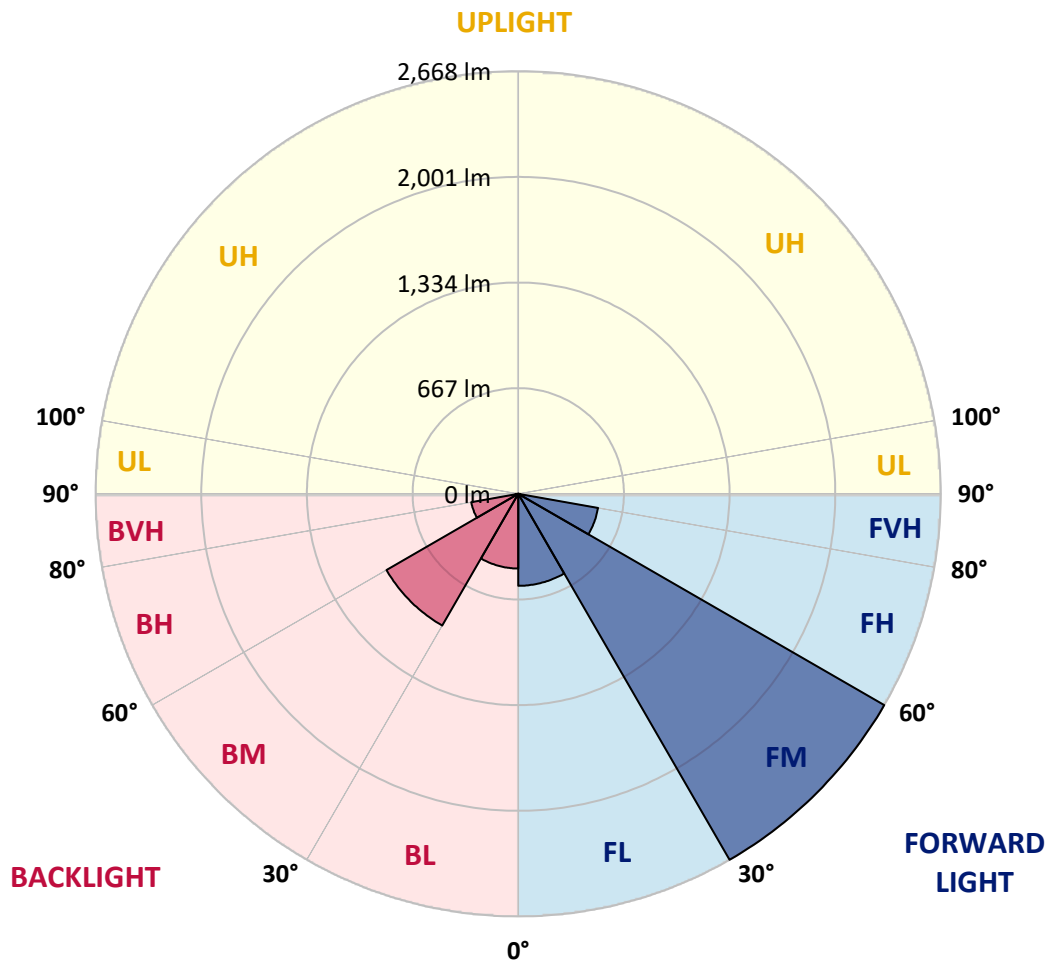
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.8	10.5			
FM (30°-60°)	2668.2	48.3			
FH (60°-80°)	511.7	9.3			G0/660
FVH (80°-90°)	12.8	0.2			G1/100
BL (0°-30°)	471.3	8.5	B1/500		
BM (30°-60°)	960.6	17.4	B1/1000		
BH (60°-80°)	301.2	5.5	B1/500		G1/500
BVH (80°-90°)	17.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
2.5°	1105.4	1103.3	1101.9	1113.1	1108.9	1109.6	1105.4	1109.6	1112.4	1106.1	1115.2
5°	1103.3	1109.6	1104.0	1107.5	1116.6	1113.8	1116.6	1125.1	1123.0	1120.9	1118.1
7.5°	1123.0	1123.7	1127.9	1129.3	1132.1	1129.3	1133.6	1141.3	1139.2	1127.2	1128.6
10°	1151.2	1152.6	1153.3	1161.0	1166.0	1166.7	1161.7	1154.7	1154.0	1170.2	1158.9
12.5°	1183.6	1180.1	1188.5	1191.3	1197.0	1203.3	1209.6	1194.8	1204.0	1204.7	1191.3
15°	1230.8	1234.3	1224.4	1224.4	1226.6	1227.3	1244.9	1237.8	1236.4	1228.7	1234.3
17.5°	1301.2	1277.3	1276.6	1266.7	1265.3	1270.9	1277.3	1282.9	1301.9	1286.4	1256.1
20°	1352.7	1358.3	1337.9	1325.9	1328.0	1340.7	1334.3	1359.7	1373.1	1347.7	1318.1
22.5°	1443.5	1424.5	1429.5	1402.7	1404.8	1418.2	1417.5	1443.5	1451.3	1411.1	1368.2
25°	1504.8	1499.9	1504.1	1483.0	1485.8	1496.4	1513.3	1556.3	1543.6	1499.2	1399.9
27.5°	1594.3	1584.4	1580.9	1573.2	1570.4	1598.5	1618.3	1664.1	1654.9	1590.1	1456.2
30°	1685.9	1679.6	1683.1	1651.4	1662.6	1722.5	1728.2	1790.9	1786.6	1672.5	1518.9
32.5°	1749.3	1752.8	1759.2	1741.5	1791.6	1839.5	1858.5	1929.7	1933.2	1814.1	1640.1
35°	1851.5	1839.5	1843.0	1863.4	1886.7	1974.0	2005.0	2052.2	2081.8	1962.8	1756.3
37.5°	1915.6	1928.2	1913.5	1945.9	2006.4	2111.4	2139.6	2188.2	2219.2	2109.3	1914.9
40°	2015.6	1995.2	2005.7	2029.0	2091.0	2227.7	2219.9	2269.9	2279.8	2234.0	2062.8
42.5°	2123.4	2113.5	2098.7	2151.6	2203.7	2303.0	2318.5	2295.3	2345.3	2355.9	2274.2
45°	2252.3	2264.3	2266.4	2267.8	2313.6	2400.3	2379.1	2358.7	2416.5	2493.3	2405.2
47.5°	2372.1	2334.0	2361.5	2399.6	2464.4	2465.1	2489.7	2441.1	2502.4	2570.8	2523.6
50°	2412.2	2393.9	2430.6	2502.4	2602.5	2613.0	2615.8	2546.8	2578.5	2632.8	2564.4
52.5°	2396.7	2390.4	2484.1	2595.4	2742.0	2795.5	2809.6	2724.3	2742.0	2717.3	2654.6
55°	2322.8	2341.8	2436.2	2663.0	2887.8	3053.3	3080.1	2972.3	2860.3	2879.3	2810.3
56°	2221.3	2188.2	2293.9	2586.3	2881.4	3137.2	3159.0	3024.5	2948.4	2923.7	2808.9
57.5°	1884.6	1841.6	1980.4	2327.0	2721.5	3105.5	3121.7	3046.3	2933.6	2883.6	2603.9
60°	1103.3	1124.4	1300.5	1604.9	2099.4	2546.1	2600.3	2655.3	2579.9	2355.9	1938.1
62.5°	532.6	519.2	645.3	920.1	1279.4	1625.3	1609.1	1763.4	1847.9	1673.9	1223.7
65°	279.0	277.6	352.3	502.3	703.1	853.9	868.7	951.8	1068.0	862.3	621.4
67.5°	205.0	210.6	248.0	353.0	452.3	461.5	459.3	500.9	512.2	433.3	381.8
70°	160.6	163.4	190.9	268.4	336.8	301.5	295.2	300.1	333.2	347.3	330.4
72.5°	116.2	119.1	142.3	181.1	210.6	205.7	209.9	237.4	278.3	293.1	275.5
75°	77.5	79.6	92.3	110.6	124.7	134.6	142.3	174.0	212.1	220.5	212.1
77.5°	53.5	55.7	64.1	78.2	79.6	86.0	88.8	103.6	126.8	137.4	131.7
80°	30.3	30.3	34.5	40.2	49.3	57.8	59.2	71.2	81.7	88.8	90.2
82.5°	14.1	14.8	18.3	24.7	32.4	40.2	41.6	49.3	57.1	64.1	66.2
85°	7.0	7.7	10.6	14.8	19.7	24.0	23.2	24.0	25.4	24.0	24.7
87.5°	2.1	2.1	2.8	3.5	2.8	3.5	3.5	4.2	4.9	5.6	6.3
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°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
2.5°	1115.9	1118.1	1104.0	1117.4	1112.4	1111.7	1121.6	1120.2	1123.7	1122.3	1113.8
5°	1116.6	1111.7	1126.5	1113.1	1119.5	1132.9	1123.7	1144.8	1134.3	1141.3	1125.8
7.5°	1138.5	1139.9	1137.1	1142.7	1139.9	1146.2	1141.3	1146.2	1137.8	1138.5	1152.6
10°	1157.5	1153.3	1158.2	1151.2	1156.1	1154.0	1142.7	1139.2	1142.0	1138.5	1147.6
12.5°	1192.7	1185.0	1181.5	1173.0	1167.4	1146.2	1128.6	1118.8	1132.1	1134.3	1130.0
15°	1228.7	1229.4	1213.2	1194.1	1158.9	1127.2	1131.4	1135.0	1135.0	1140.6	1130.0
17.5°	1251.2	1251.2	1236.4	1198.4	1162.4	1144.1	1139.9	1128.6	1118.8	1117.4	1116.6
20°	1290.7	1278.7	1244.9	1197.7	1161.0	1152.6	1120.9	1094.1	1073.7	1066.6	1065.9
22.5°	1335.8	1305.5	1258.3	1199.1	1158.9	1146.9	1087.8	1047.6	1011.0	995.5	997.6
25°	1377.3	1328.7	1266.0	1192.7	1151.2	1093.4	1027.2	971.5	933.5	920.8	914.5
27.5°	1406.2	1353.4	1266.0	1198.4	1122.3	1033.5	965.9	894.7	861.6	853.2	854.6
30°	1445.0	1384.4	1287.8	1186.4	1064.5	956.0	875.0	828.5	808.8	801.7	806.7
32.5°	1535.8	1465.4	1318.1	1157.5	996.2	878.5	813.0	786.9	758.1	744.0	739.0
35°	1634.5	1542.2	1347.7	1108.9	919.4	808.1	767.2	743.3	708.7	693.2	696.1
37.5°	1774.0	1640.8	1349.8	1028.6	836.3	768.6	731.3	693.9	665.8	641.8	634.8
40°	1962.1	1775.4	1344.9	944.0	769.3	722.1	694.6	648.1	616.4	599.5	603.1
42.5°	2127.6	1933.2	1324.5	848.2	708.7	690.4	659.4	613.6	582.6	565.0	563.6
45°	2267.1	2049.4	1285.7	766.5	658.0	655.2	619.3	584.0	559.4	543.2	550.2
47.5°	2396.0	2143.1	1227.3	684.8	611.5	617.2	582.6	560.8	545.3	530.5	529.8
50°	2442.5	2141.7	1175.8	617.2	574.2	571.4	569.9	546.7	530.5	517.8	523.5
52.5°	2520.0	2165.7	1120.2	570.7	540.4	541.1	546.0	529.1	510.8	503.0	510.1
55°	2631.3	2169.2	997.6	516.4	512.2	517.1	517.1	505.8	490.3	484.0	480.5
56°	2540.5	2064.2	894.7	502.3	498.1	498.1	511.5	498.8	479.8	474.8	470.6
57.5°	2343.2	1808.5	748.9	485.4	479.1	488.9	496.0	482.6	465.0	457.9	462.2
60°	1616.1	1223.7	562.9	448.8	448.8	465.0	470.6	450.9	443.1	442.4	436.8
62.5°	943.3	713.0	440.3	415.7	417.1	430.5	434.7	423.4	413.5	425.5	431.2
65°	500.2	425.5	377.6	380.4	381.1	391.7	410.0	409.3	408.6	412.1	412.8
67.5°	362.1	353.7	343.1	340.3	341.7	349.4	367.8	381.8	381.1	372.7	366.3
70°	322.7	310.7	304.3	305.1	299.4	308.6	323.4	332.5	316.3	306.5	302.2
72.5°	268.4	264.9	260.7	261.4	250.1	248.0	231.1	231.1	226.9	224.0	229.0
75°	205.0	203.6	205.7	202.2	190.2	177.5	167.7	158.5	144.4	138.8	136.0
77.5°	129.6	133.9	138.8	131.0	126.1	116.9	107.1	97.9	86.7	80.3	80.3
80°	88.1	91.6	95.1	93.7	88.1	79.6	71.9	62.0	54.2	49.3	48.6
82.5°	66.9	69.7	74.7	69.0	63.4	56.4	50.0	43.0	35.9	30.3	30.3
85°	24.0	27.5	30.3	33.1	35.2	35.9	31.0	25.4	20.4	16.2	15.5
87.5°	6.3	7.0	7.7	7.0	7.0	7.0	7.7	7.0	6.3	4.9	4.9
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)