

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: P526784

Luminaire Tested: **GALN-SA1D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5979 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

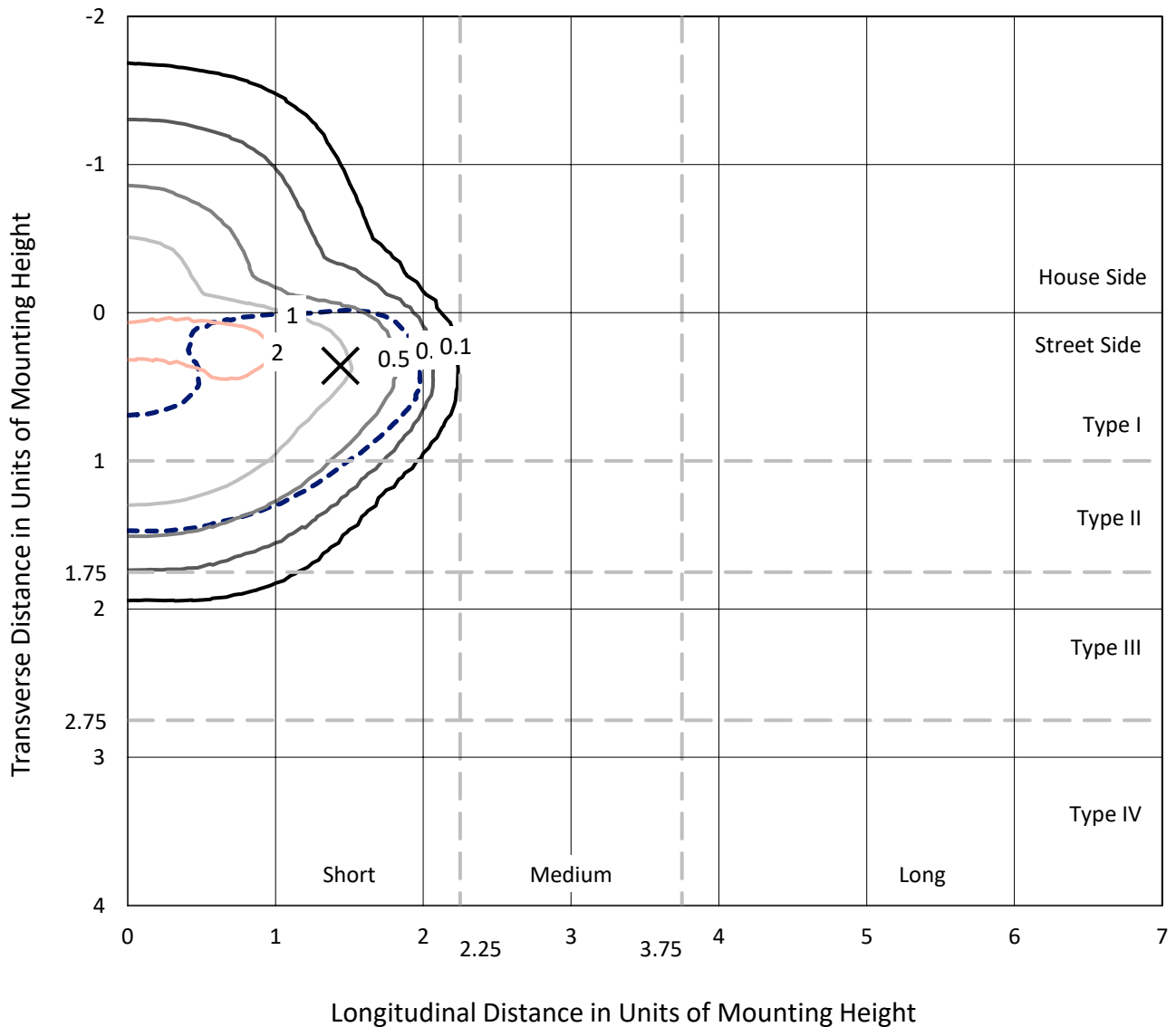
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

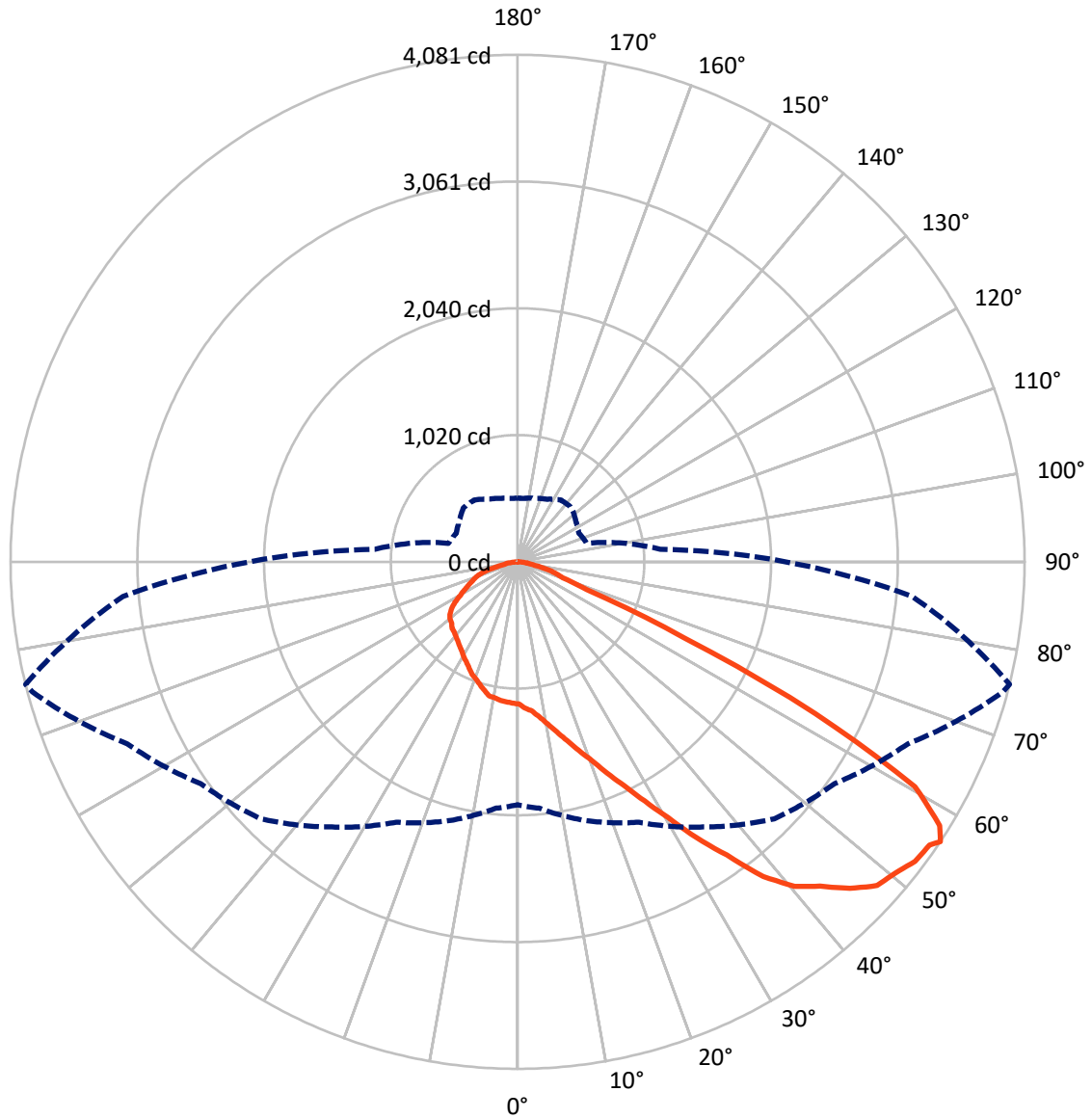
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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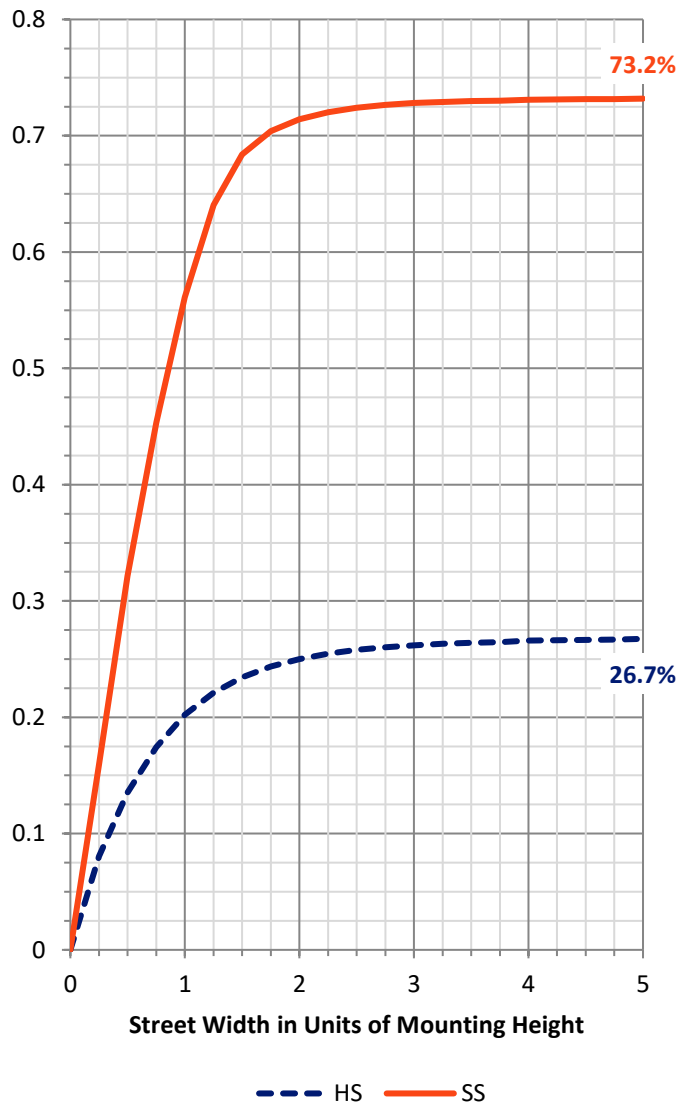
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1607.6	0.0	1607.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	4371.4	0.0	4371.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	5979.0	0.0	5979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	1.9
10°-20°	356.4	6.0
20°-30°	623.3	10.4
30°-40°	975.9	16.3
40°-50°	1419.6	23.7
50°-60°	1560.2	26.1
60°-70°	696.4	11.6
70°-80°	201.2	3.4
80°-90°	32.6	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°	5979.0	100.0
0°-180°	5979.0	100.0

**Coefficient of Utilization**



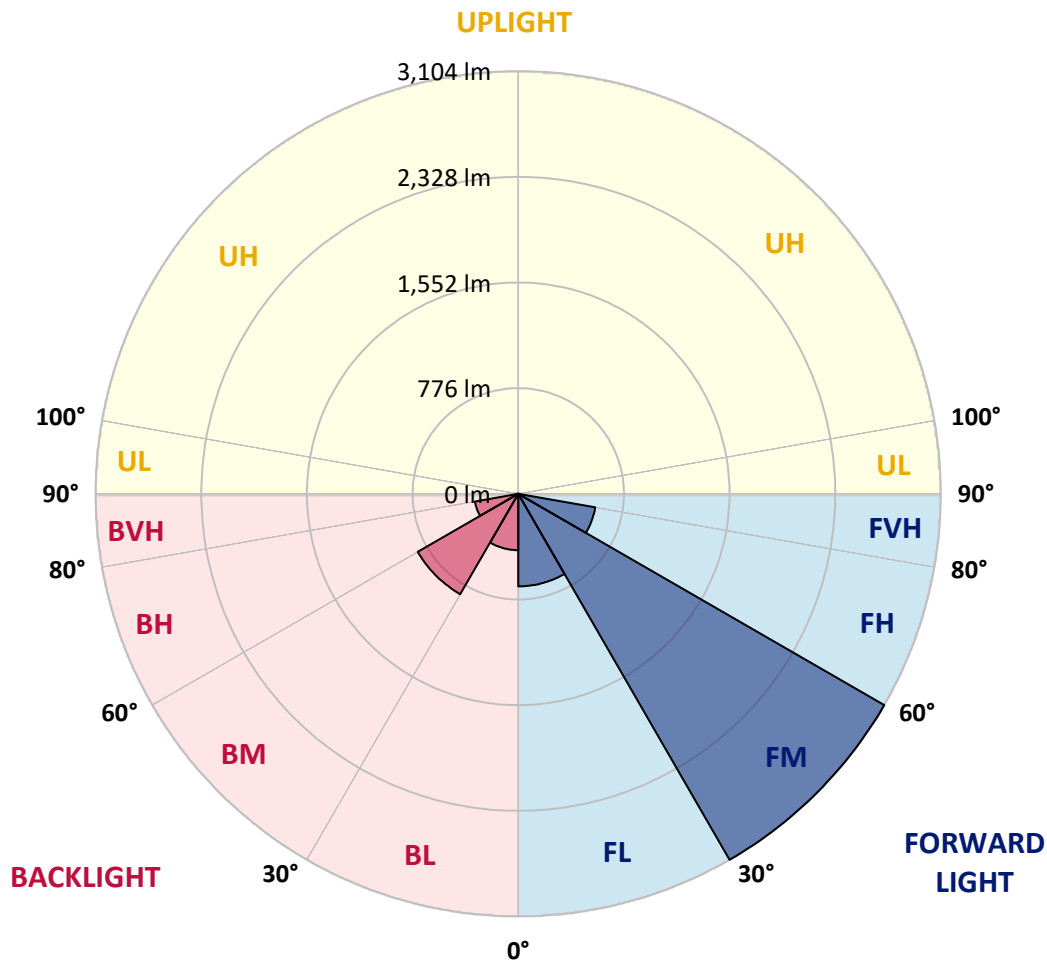
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.4	11.4			
FM (30°-60°)	3103.8	51.9			
FH (60°-80°)	574.1	9.6			G0/660
FVH (80°-90°)	14.0	0.2			G1/100
BL (0°-30°)	413.7	6.9	B1/500		
BM (30°-60°)	851.9	14.2	B1/1000		
BH (60°-80°)	323.4	5.4	B1/500		G1/500
BVH (80°-90°)	18.6	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°	55°	65°	75°	76°	85°
0°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1260.3	1240.1	1238.6	1233.1	1236.2	1222.3	1207.6	1188.2	1168.0	1180.4	1151.0
5°	1348.6	1321.5	1332.3	1313.7	1316.1	1297.5	1267.2	1244.8	1220.0	1205.2	1184.3
7.5°	1379.6	1382.0	1389.7	1386.6	1371.1	1371.1	1350.9	1311.4	1268.0	1259.5	1224.6
10°	1421.5	1422.3	1413.7	1416.1	1437.8	1427.7	1409.9	1392.8	1337.0	1326.9	1264.9
12.5°	1436.2	1422.3	1436.2	1448.6	1474.2	1488.1	1484.3	1471.9	1412.2	1405.2	1314.5
15°	1438.5	1430.0	1441.6	1469.5	1492.0	1550.9	1580.4	1571.8	1492.8	1493.6	1370.3
17.5°	1427.7	1439.3	1444.0	1468.0	1519.9	1574.9	1660.2	1671.8	1606.7	1596.6	1440.9
20°	1442.4	1433.9	1440.1	1461.8	1530.8	1616.8	1728.4	1805.1	1713.7	1706.7	1513.7
22.5°	1499.0	1487.4	1485.8	1499.8	1549.4	1638.5	1800.5	1938.5	1843.9	1847.8	1604.4
25°	1543.2	1549.4	1543.9	1543.2	1574.2	1671.1	1895.8	2097.3	2020.6	1998.1	1711.4
27.5°	1619.1	1633.8	1623.0	1637.7	1630.7	1719.9	1964.0	2273.3	2211.3	2181.0	1808.2
30°	1724.5	1732.3	1722.2	1722.2	1701.3	1788.1	2026.0	2457.0	2431.4	2390.3	1922.2
32.5°	1863.3	1874.9	1854.7	1843.1	1840.0	1889.6	2137.6	2638.3	2681.7	2646.9	2073.3
35°	2047.0	2040.0	2016.0	2005.1	1963.3	2045.4	2303.5	2846.8	2960.8	2898.8	2256.2
37.5°	2209.0	2198.1	2196.6	2136.1	2146.2	2213.6	2444.6	3005.0	3231.3	3213.4	2449.2
40°	2360.1	2370.2	2386.4	2352.3	2336.8	2411.2	2608.9	3125.9	3441.3	3434.3	2598.0
42.5°	2522.1	2512.8	2541.5	2512.8	2489.5	2594.9	2787.2	3209.6	3625.8	3568.4	2753.8
45°	2756.9	2727.5	2737.6	2739.9	2722.8	2761.6	2860.8	3270.0	3755.2	3749.0	2867.8
47.5°	2953.0	2953.8	2936.7	2923.6	2871.6	2910.4	2942.9	3308.0	3904.0	3894.0	2911.9
50°	3025.9	3015.8	3065.4	3094.1	3097.2	3018.1	3007.3	3328.9	3982.3	3938.1	2956.1
52.5°	2763.9	2773.2	2851.5	3022.0	3120.4	3129.0	3082.5	3372.3	4014.1	4004.8	2991.8
55°	2224.5	2269.4	2398.1	2594.9	2828.2	3084.8	3163.8	3417.3	4031.1	4023.4	3149.9
56°	1955.5	1990.4	2157.8	2312.0	2605.0	2924.3	3112.7	3465.3	4044.3	4080.7	3187.1
57.5°	1574.2	1614.5	1734.6	1909.8	2255.5	2619.0	2971.6	3406.4	3993.2	4007.1	3214.2
60°	984.3	988.2	1132.4	1247.9	1491.2	1846.2	2267.9	2963.9	3695.5	3675.4	2887.1
62.5°	645.6	646.4	777.4	872.0	982.8	1064.2	1334.7	1965.6	2726.7	2691.0	2055.5
65°	453.4	463.5	565.0	691.4	736.3	693.7	685.2	1036.3	1523.0	1471.9	1104.5
67.5°	331.7	332.5	422.4	558.1	623.2	527.8	428.6	506.1	603.0	601.5	511.5
70°	219.3	228.6	297.6	417.0	491.4	424.0	350.3	362.0	383.7	383.7	380.6
72.5°	127.9	136.4	182.1	264.3	275.9	265.1	277.5	310.0	324.0	323.2	319.3
75°	72.9	76.7	86.8	110.1	137.2	162.0	203.8	234.8	248.8	257.3	247.2
77.5°	42.6	45.0	51.2	62.8	71.3	87.6	110.8	132.5	151.1	148.8	150.4
80°	22.5	22.5	28.7	37.2	49.6	62.0	73.6	86.0	96.1	98.4	100.8
82.5°	13.2	14.0	18.6	27.1	35.7	44.2	56.6	65.1	74.4	75.2	76.7
85°	7.0	7.8	11.6	17.8	24.0	27.1	27.9	26.4	28.7	27.1	31.0
87.5°	2.3	2.3	3.9	3.1	3.1	3.9	4.7	4.7	6.2	6.2	6.2
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°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1150.2	1150.2	1137.0	1112.2	1108.4	1098.3	1089.0	1088.2	1081.2	1075.0	1071.9
5°	1171.9	1147.9	1128.5	1106.0	1079.7	1067.3	1053.3	1037.8	1031.6	1037.8	1037.0
7.5°	1196.7	1176.6	1118.4	1076.6	1046.3	1033.9	1018.4	1002.2	1003.7	1003.7	992.9
10°	1220.7	1193.6	1100.6	1047.1	1002.9	993.6	985.1	991.3	999.1	1000.6	993.6
12.5°	1261.0	1199.8	1092.1	1017.7	989.8	969.6	975.0	992.1	1008.4	1003.7	1009.1
15°	1291.3	1205.2	1053.3	987.4	952.6	961.9	981.2	992.9	1020.0	1016.9	1022.3
17.5°	1320.7	1208.3	1015.3	947.1	932.4	958.0	972.7	1006.0	1014.6	1033.2	1040.1
20°	1381.2	1214.5	976.6	922.3	917.7	947.1	972.7	988.2	1006.8	1023.1	1023.1
22.5°	1412.2	1211.4	951.0	889.8	904.5	923.1	946.4	972.7	972.7	988.2	989.0
25°	1450.9	1199.0	910.7	874.3	885.1	903.0	929.3	920.0	930.1	930.1	942.5
27.5°	1495.1	1172.7	875.8	846.4	868.1	887.5	891.3	885.1	873.5	872.0	867.3
30°	1530.8	1140.1	850.3	837.1	854.9	865.8	853.4	840.2	820.0	818.5	807.6
32.5°	1579.6	1099.8	818.5	813.8	834.0	834.8	830.9	810.7	781.3	768.9	756.5
35°	1661.8	1076.6	794.4	801.4	807.6	805.3	798.3	776.6	747.2	741.7	737.1
37.5°	1722.2	1059.5	769.6	778.2	783.6	786.7	765.8	741.7	742.5	731.7	728.6
40°	1790.4	1048.7	749.5	753.4	754.1	764.2	738.6	727.0	732.4	725.5	730.1
42.5°	1878.0	1051.8	728.6	725.5	740.2	736.3	723.9	708.4	711.5	690.6	693.7
45°	1924.5	1072.7	716.2	702.2	718.5	717.7	701.4	686.7	668.1	627.8	629.4
47.5°	1955.5	1078.1	686.7	677.4	694.5	704.5	685.9	651.8	625.5	596.8	589.8
50°	1987.3	1088.2	672.8	653.4	660.4	684.4	661.1	628.6	603.0	577.4	581.3
52.5°	2015.2	1107.6	645.6	617.0	629.4	655.7	643.3	603.8	575.9	555.0	548.8
55°	2139.2	1151.0	599.9	562.7	592.2	625.5	618.5	570.5	540.2	529.4	527.8
56°	2158.6	1152.5	575.9	544.1	571.2	615.4	606.9	555.7	528.6	511.5	512.3
57.5°	2161.7	1133.9	541.8	527.0	550.3	600.7	589.8	544.1	506.9	491.4	486.7
60°	1902.0	885.1	499.1	489.8	517.0	555.7	551.9	512.3	470.5	452.6	461.2
62.5°	1296.7	648.7	465.8	464.3	478.2	516.2	506.1	470.5	435.6	424.0	418.5
65°	754.9	492.2	433.3	427.1	438.7	458.8	465.8	428.6	392.2	384.4	382.1
67.5°	445.7	406.9	391.4	381.3	377.5	389.9	395.3	373.6	337.2	326.3	335.6
70°	372.8	362.0	362.7	345.7	336.4	327.9	323.2	303.8	273.6	259.6	255.8
72.5°	321.7	317.0	313.9	298.4	289.9	270.5	250.3	231.0	208.5	196.9	197.6
75°	245.7	244.1	245.7	237.9	223.2	207.7	189.1	164.3	147.3	132.5	135.6
77.5°	146.5	151.1	153.5	150.4	144.2	130.2	118.6	102.3	86.0	74.4	72.9
80°	100.8	104.6	108.5	104.6	98.4	88.4	76.0	63.6	51.9	45.7	44.2
82.5°	76.7	80.6	82.9	79.1	71.3	60.5	51.9	43.4	34.1	27.9	26.4
85°	27.9	31.8	31.0	37.2	40.3	38.8	33.3	25.6	19.4	14.0	13.2
87.5°	7.8	7.0	7.8	7.8	7.8	7.0	6.2	6.2	6.2	3.9	3.1
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)