

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: P451141

Luminaire Tested: **GALN-SA2A-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6022 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

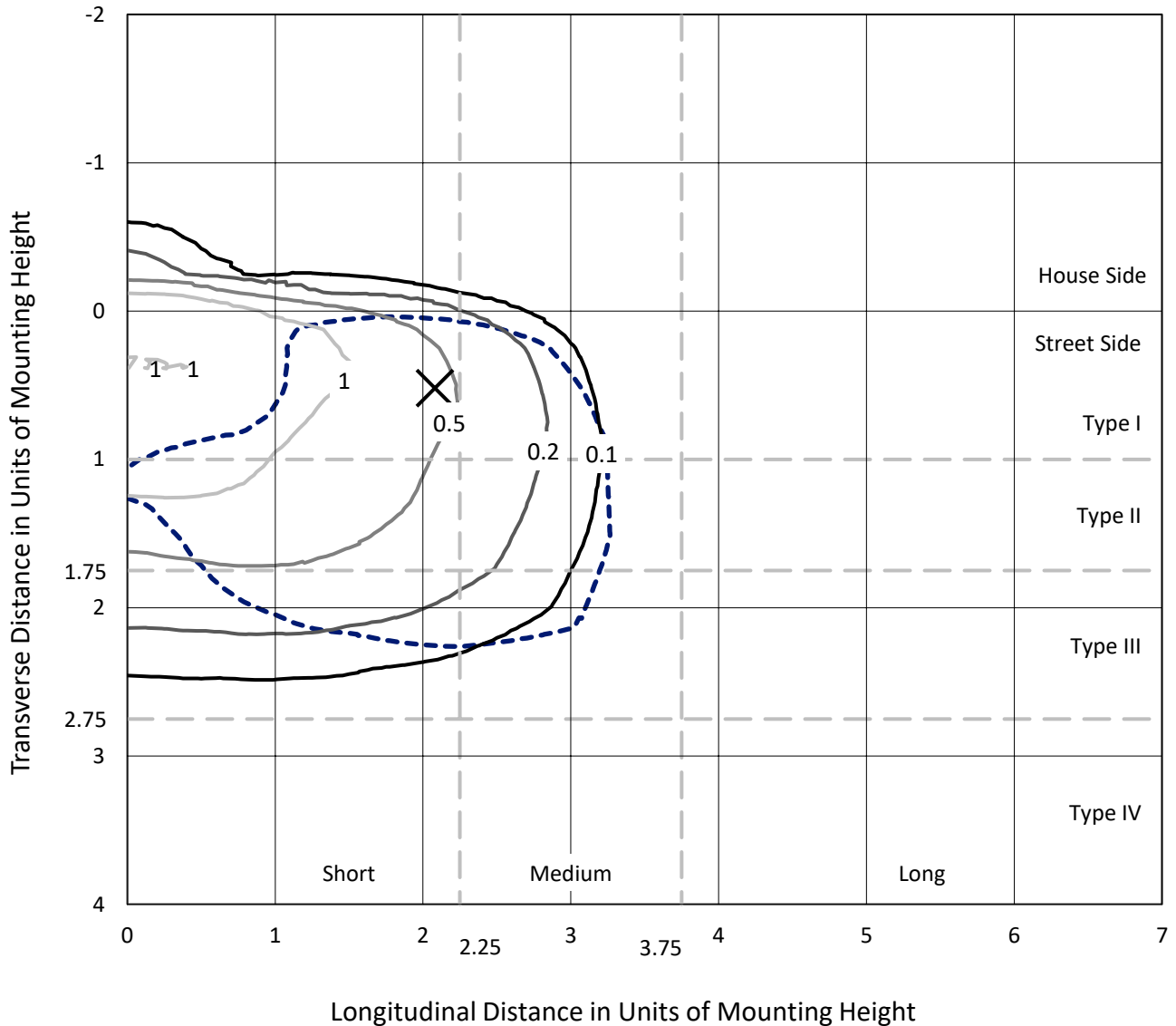
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

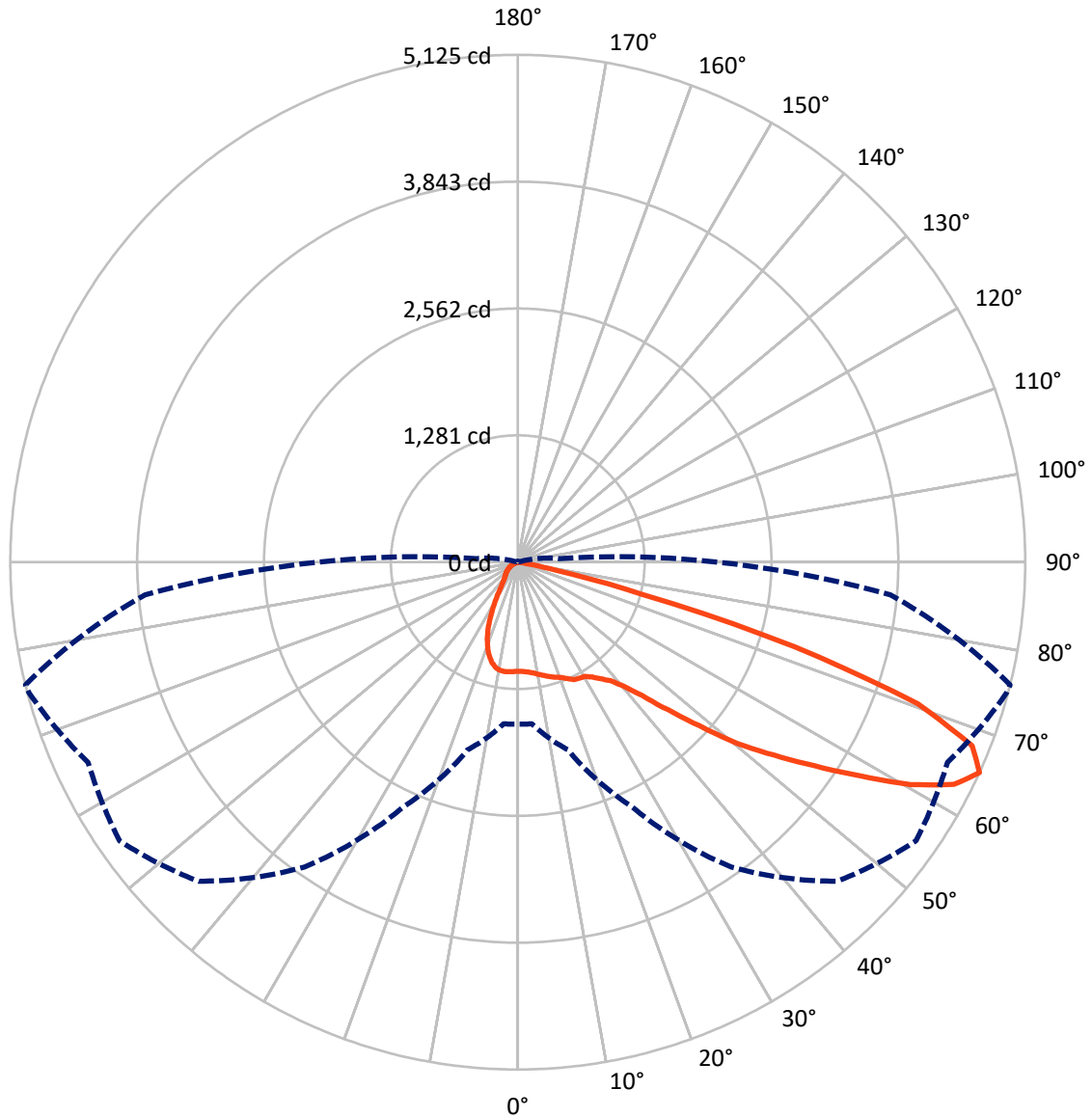
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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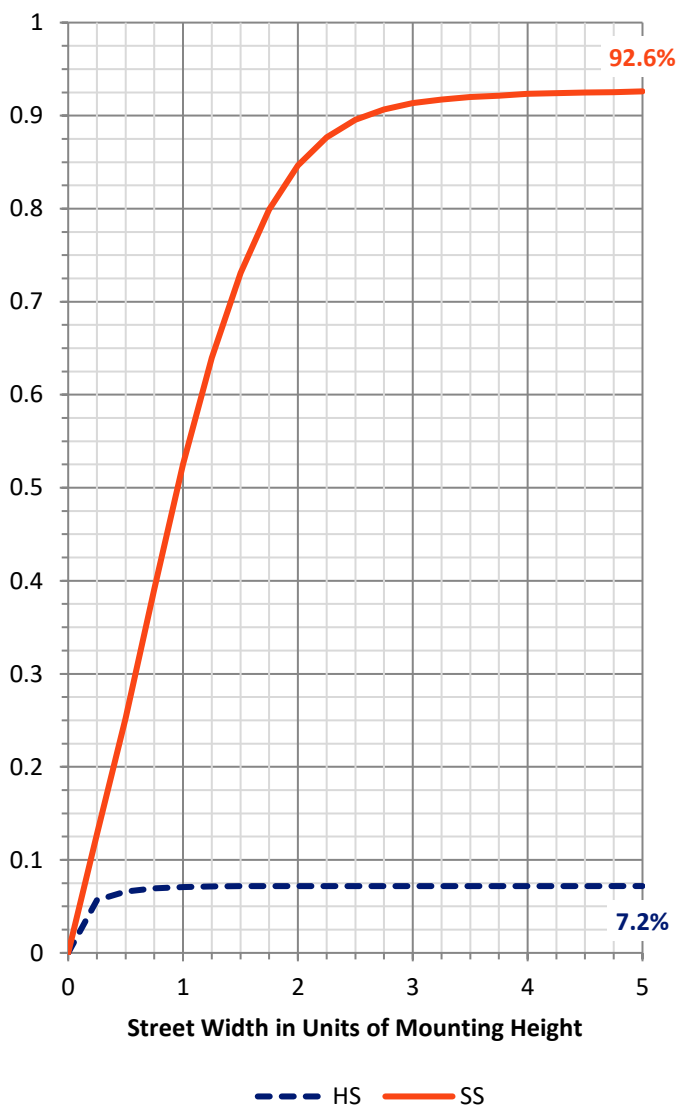
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.9	0.0	434.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5587.1	0.0	5587.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6022.0	0.0	6022.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	1.5
10°-20°	202.1	3.4
20°-30°	325.6	5.4
30°-40°	566.1	9.4
40°-50°	935.5	15.5
50°-60°	1445.1	24.0
60°-70°	1764.7	29.3
70°-80°	669.8	11.1
80°-90°	22.4	0.4
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°	6022.0	100.0
0°-180°	6022.0	100.0

**Coefficient of Utilization**



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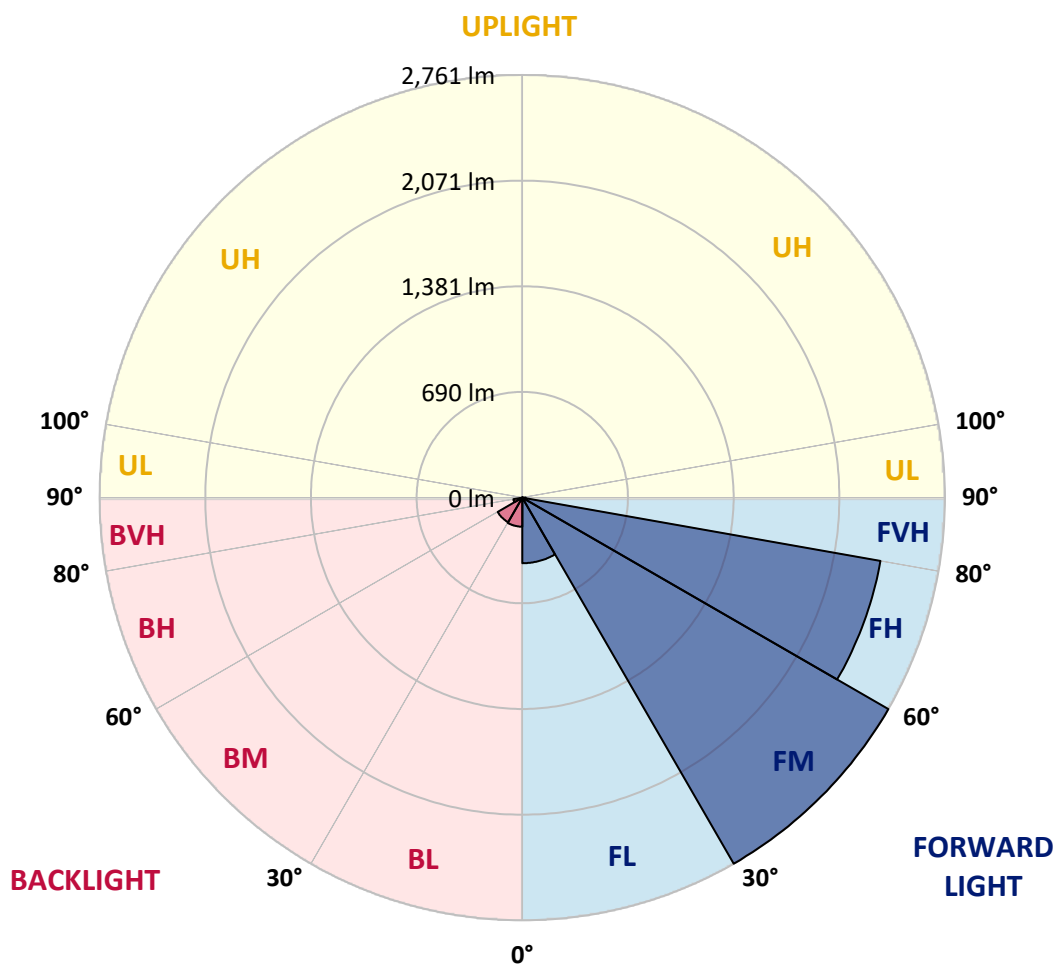
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.4	7.1			
FM (30°-60°)	2761.2	45.9			
FH (60°-80°)	2375.5	39.4			G2/5000
FVH (80°-90°)	22.0	0.4			G1/100
BL (0°-30°)	190.0	3.2	B1/500		
BM (30°-60°)	185.6	3.1	B0/220		
BH (60°-80°)	59.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1052.7	1053.1	1055.7	1062.1	1071.9	1079.9	1086.7	1097.8	1105.4	1106.3	1108.8
5°	980.0	974.9	980.0	996.6	1011.5	1034.0	1061.6	1089.3	1113.9	1115.6	1127.6
7.5°	898.4	902.6	910.7	927.7	955.8	990.2	1030.2	1079.5	1126.3	1130.5	1153.9
10°	815.5	824.8	838.0	863.9	903.1	947.7	1002.1	1072.7	1145.8	1151.8	1192.2
12.5°	738.9	743.2	759.4	794.2	842.7	905.6	980.9	1068.9	1167.5	1174.7	1233.0
15°	680.3	685.8	699.8	731.3	785.3	866.1	963.4	1067.6	1188.8	1199.0	1273.8
17.5°	669.2	672.6	678.6	699.8	747.0	834.6	947.7	1067.2	1209.2	1221.5	1311.7
20°	714.7	711.7	705.8	703.7	729.6	810.4	936.2	1070.6	1228.7	1242.8	1351.6
22.5°	828.7	832.5	797.6	756.4	747.9	806.5	934.5	1086.7	1259.8	1276.4	1396.3
25°	1070.6	1041.2	986.8	888.2	813.8	829.9	953.7	1125.0	1295.9	1314.2	1436.7
27.5°	1338.0	1329.1	1244.5	1082.1	943.5	879.3	987.7	1154.3	1307.8	1326.5	1459.6
30°	1600.8	1611.4	1514.5	1335.0	1131.8	970.7	1019.6	1165.4	1318.5	1338.0	1488.9
32.5°	1844.4	1857.1	1772.1	1594.4	1353.7	1128.8	1074.4	1208.3	1363.1	1383.1	1537.8
35°	2036.1	2037.8	1973.6	1832.1	1596.1	1321.0	1193.0	1283.6	1423.5	1446.9	1589.7
37.5°	2212.2	2209.6	2134.4	2012.3	1798.0	1511.9	1342.3	1370.3	1492.3	1516.6	1664.5
40°	2342.7	2344.4	2320.2	2205.4	1986.4	1688.4	1460.5	1451.5	1608.0	1645.8	1773.4
42.5°	2429.8	2445.6	2457.5	2399.2	2223.2	1905.6	1642.0	1625.4	1808.7	1840.1	1927.3
45°	2500.4	2528.5	2588.0	2585.0	2450.7	2172.2	1891.2	1857.1	2093.1	2126.7	2123.3
47.5°	2551.9	2580.4	2679.0	2738.5	2664.5	2430.7	2204.5	2175.2	2432.8	2469.4	2339.7
50°	2578.2	2612.2	2738.1	2853.3	2831.6	2679.8	2561.7	2563.4	2843.1	2878.4	2590.6
52.5°	2516.6	2560.8	2769.6	2977.0	3019.1	2918.4	2896.3	2952.4	3208.3	3238.5	2817.2
55°	2319.7	2375.4	2726.6	3082.5	3236.4	3199.8	3276.4	3361.8	3607.6	3627.1	3049.7
57.5°	2195.2	2254.3	2599.9	3172.2	3497.5	3553.6	3674.7	3737.2	4019.6	4069.3	3316.8
60°	2090.1	2136.5	2495.7	3191.3	3762.8	3986.4	4104.2	4168.8	4528.1	4560.4	3610.5
62.5°	1915.4	1968.5	2319.7	3057.8	3896.3	4332.9	4577.0	4548.0	4921.3	4943.9	3790.8
65°	1634.4	1639.0	1962.6	2722.4	3758.5	4557.8	4909.0	4787.8	5109.3	5124.6	3776.8
67.5°	1219.8	1264.9	1509.8	2139.9	3174.7	4365.6	5016.6	4794.2	4990.6	4948.1	3477.0
70°	785.7	820.2	1023.4	1483.8	2289.1	3643.3	4659.9	4465.6	4380.1	4285.7	2846.1
72.5°	362.7	406.9	608.0	847.8	1357.6	2595.2	3782.7	3628.0	3152.6	2919.6	1809.1
75°	158.2	169.2	300.2	447.3	636.5	1372.4	2494.0	2252.1	1423.9	1300.6	724.1
77.5°	96.5	103.7	157.3	239.8	250.0	523.0	1343.5	982.6	440.1	388.2	196.4
80°	65.5	73.6	114.4	125.4	85.5	145.8	504.3	262.3	88.9	85.0	42.1
82.5°	31.9	40.4	84.6	70.2	37.0	46.8	146.7	56.1	25.9	24.2	14.9
85°	4.7	8.1	47.6	45.9	16.6	11.1	25.9	14.0	8.9	8.5	6.8
87.5°	0.0	0.0	16.2	7.2	1.7	1.7	3.0	3.0	3.4	3.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1110.1	1112.2	1104.2	1092.7	1080.4	1068.0	1050.6	1034.9	1025.5	1031.0	1017.4
5°	1130.1	1128.4	1107.1	1072.3	1025.9	970.2	915.0	867.8	852.5	829.5	827.0
7.5°	1157.7	1153.1	1108.0	1028.1	923.5	818.9	716.8	649.2	610.5	577.8	578.7
10°	1196.4	1182.8	1098.2	950.3	778.1	620.3	490.2	400.9	362.2	349.9	340.1
12.5°	1236.4	1210.0	1071.0	845.2	605.9	423.9	298.0	243.6	219.8	212.2	211.3
15°	1272.1	1230.4	1023.4	719.0	440.5	270.8	203.2	185.4	182.4	182.8	182.4
17.5°	1307.4	1246.6	957.5	585.0	299.3	194.3	174.7	170.5	171.8	173.5	173.0
20°	1336.7	1250.0	873.3	446.4	211.7	170.5	164.1	163.3	164.5	165.8	165.8
22.5°	1368.6	1252.6	773.4	309.1	173.0	158.6	155.2	155.2	156.9	158.6	159.0
25°	1392.4	1238.5	653.9	221.9	152.6	147.1	145.4	145.8	147.5	148.4	148.0
27.5°	1396.3	1199.0	527.2	170.1	138.6	133.1	131.4	133.1	131.0	132.2	131.4
30°	1399.7	1148.8	398.8	143.3	125.9	117.3	114.8	112.2	110.5	108.4	108.0
32.5°	1410.3	1089.7	291.2	128.8	113.9	104.6	98.6	91.4	85.9	84.2	83.8
35°	1415.0	1018.7	213.9	117.3	103.3	93.1	82.5	72.3	64.2	61.2	63.4
37.5°	1432.8	949.8	165.8	108.8	94.0	81.2	67.6	54.8	47.2	45.5	46.3
40°	1469.4	875.0	139.0	101.6	85.9	70.2	53.6	41.2	36.1	34.4	34.0
42.5°	1528.1	800.6	123.7	94.8	77.8	59.1	42.1	32.3	28.1	26.8	26.8
45°	1599.5	729.2	113.1	87.6	69.3	47.6	33.2	25.9	23.4	22.5	22.5
47.5°	1693.5	666.7	104.2	80.4	59.9	37.8	26.8	22.5	20.8	21.3	21.7
50°	1788.7	620.3	94.4	72.3	49.3	31.0	23.0	20.0	19.6	20.0	20.0
52.5°	1860.5	593.1	81.2	61.2	38.7	25.9	20.4	18.7	18.3	17.4	17.4
55°	1957.5	587.2	64.6	49.7	30.6	21.7	18.3	17.0	15.7	14.9	14.5
57.5°	2082.1	594.0	49.7	38.7	23.8	17.9	16.2	14.0	12.3	10.6	10.6
60°	2159.4	578.7	38.7	29.8	17.4	14.5	12.3	10.2	8.1	6.8	6.4
62.5°	2134.8	514.0	30.6	22.1	12.3	10.6	8.1	6.8	4.7	3.4	3.0
65°	2007.7	415.0	24.7	15.3	8.9	6.4	4.3	4.3	2.1	0.4	0.0
67.5°	1757.2	307.4	19.6	10.2	5.1	3.0	2.1	1.3	0.0	0.0	0.0
70°	1430.3	221.9	15.3	6.4	3.0	2.1	0.9	0.4	0.0	0.0	0.0
72.5°	908.2	127.1	11.9	3.8	2.1	0.9	0.0	0.0	0.0	0.0	0.0
75°	351.2	49.7	8.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	99.5	23.4	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.9	10.2	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)