

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: P652257

Luminaire Tested: **GALN-SA2B-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9630.3 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

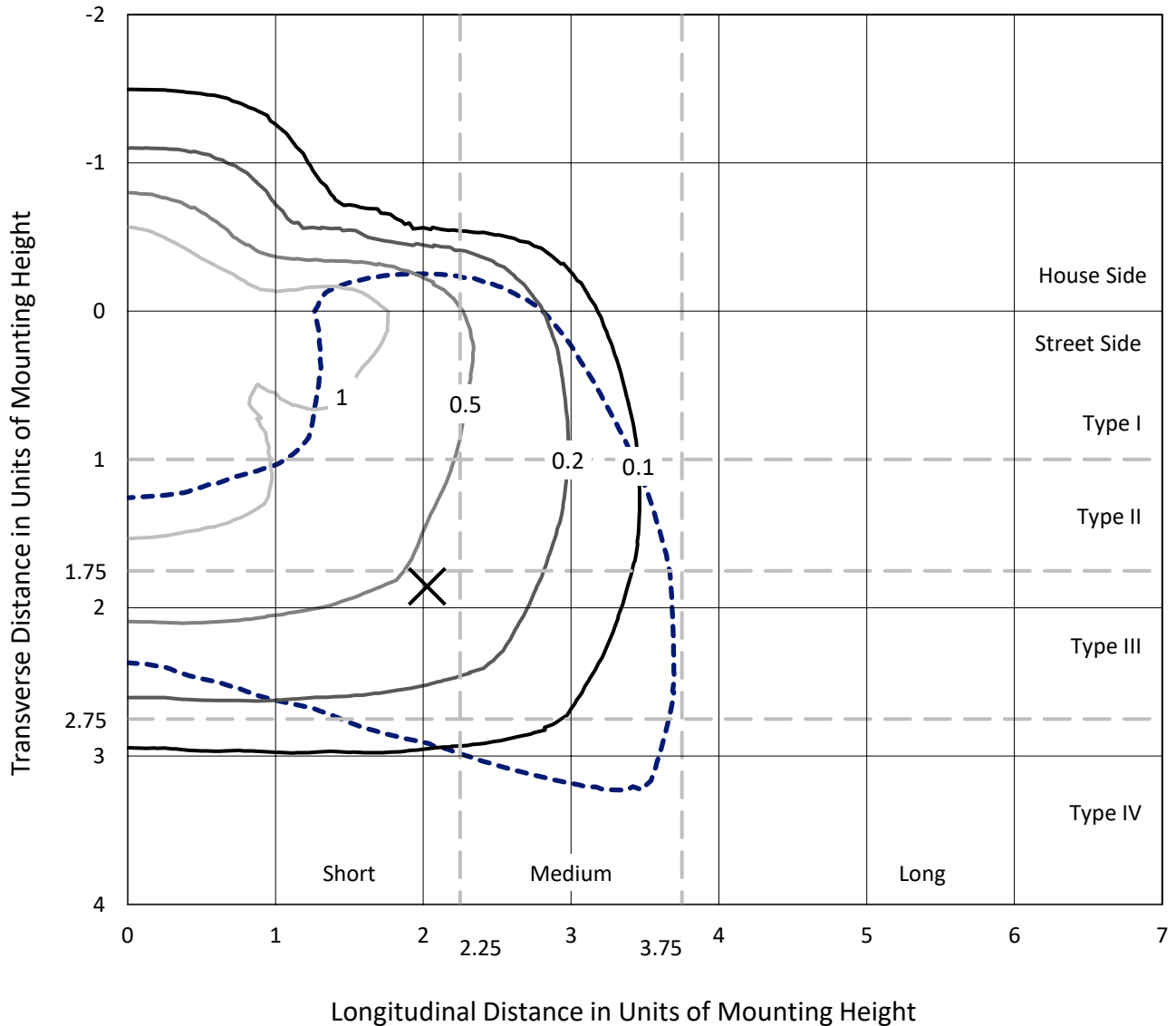
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

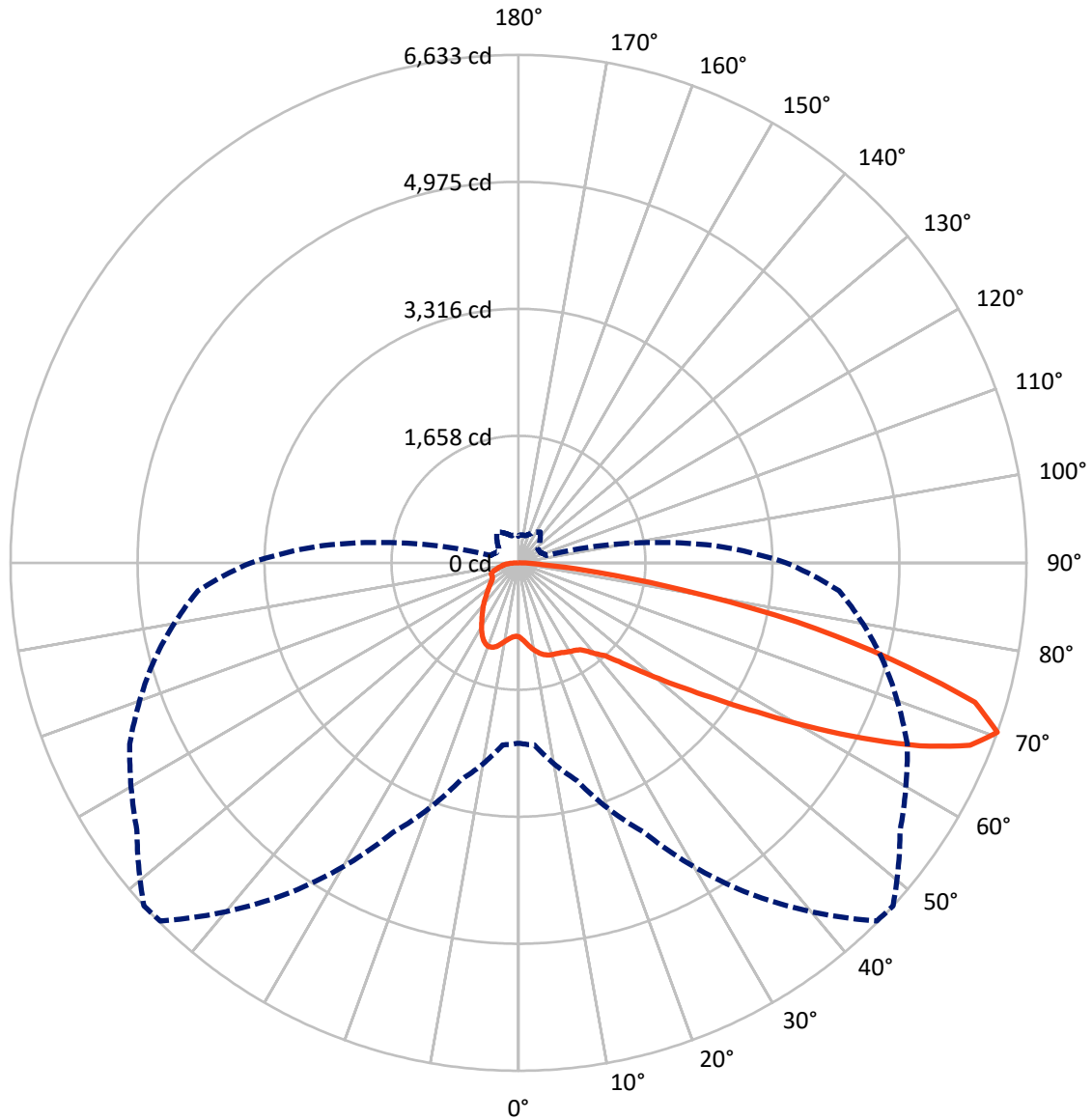
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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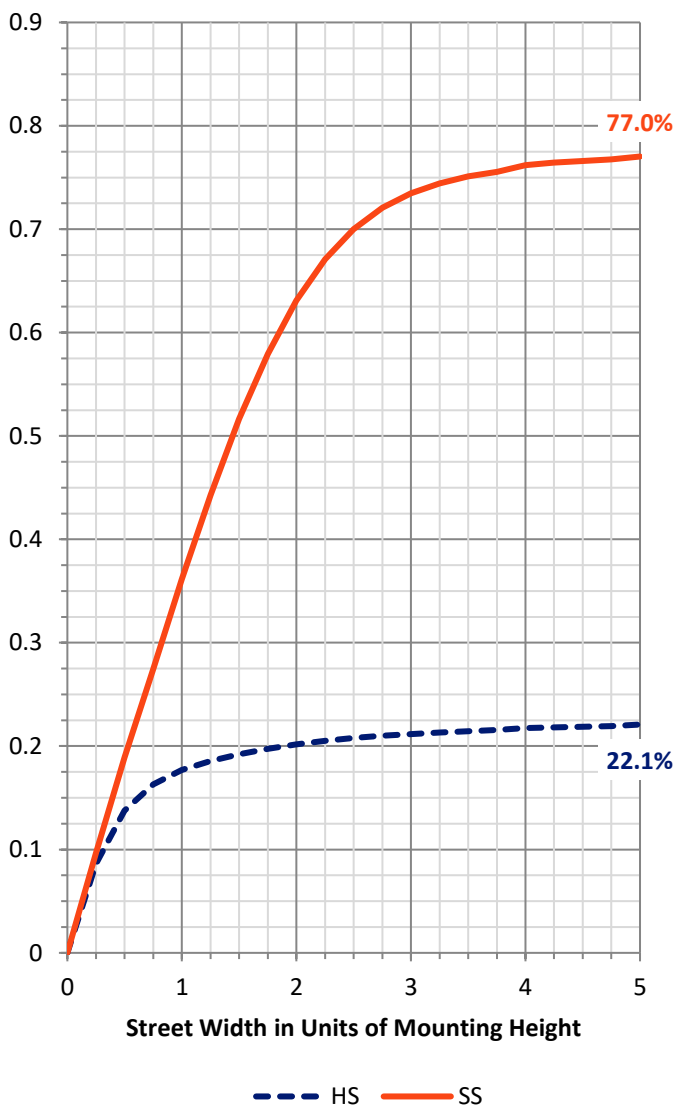
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2180.5	0.0	2180.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	7449.8	0.0	7449.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	9630.3	0.0	9630.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	1.0
10°-20°	333.1	3.5
20°-30°	554.0	5.8
30°-40°	785.2	8.2
40°-50°	1159.2	12.0
50°-60°	2007.8	20.8
60°-70°	2836.0	29.4
70°-80°	1630.3	16.9
80°-90°	224.9	2.3
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°	9630.3	100.0
0°-180°	9630.3	100.0

**Coefficient of Utilization**

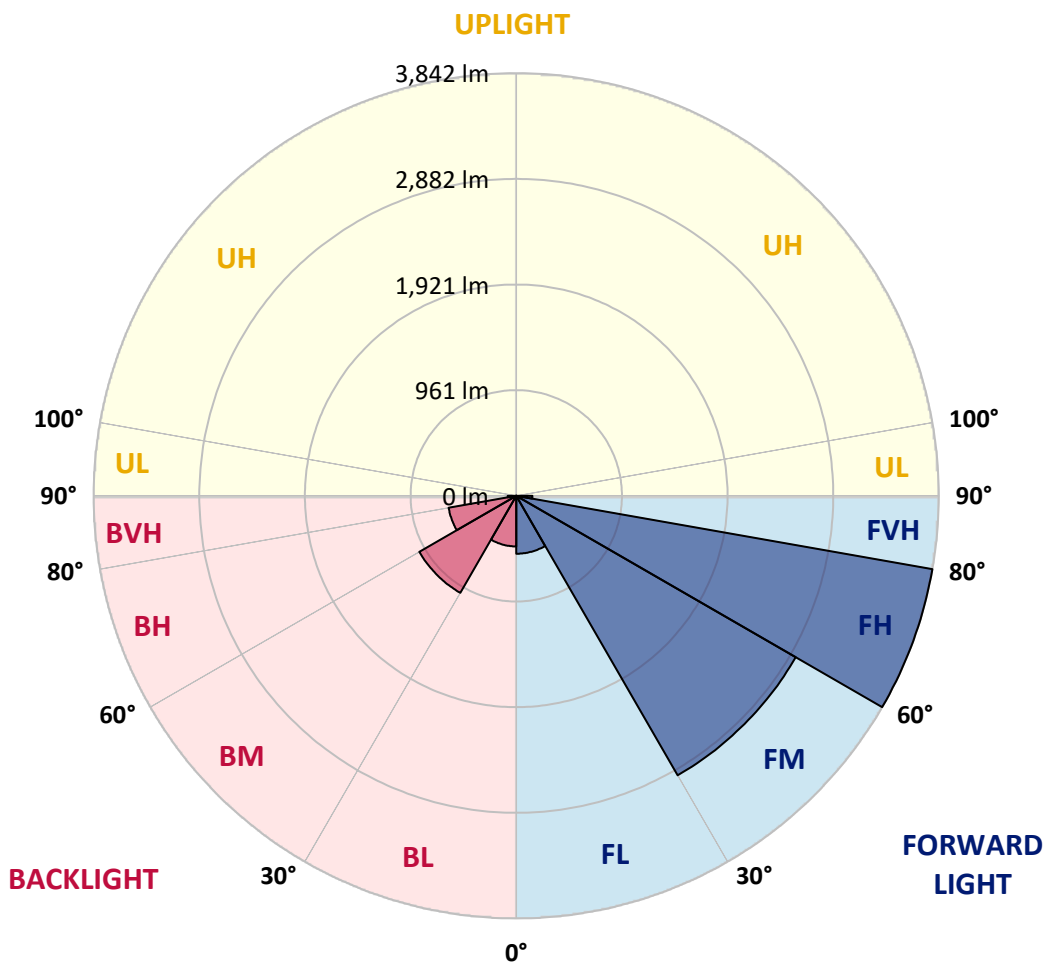


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.6	5.5			
FM (30°-60°)	2934.2	30.5			
FH (60°-80°)	3842.1	39.9			G2/5000
FVH (80°-90°)	146.9	1.5			G2/225
BL (0°-30°)	460.2	4.8	B1/500		
BM (30°-60°)	1018.0	10.6	B2/2500		
BH (60°-80°)	624.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	78.0	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7
2.5°	1029.1	1025.5	1025.0	1017.3	1013.2	1005.4	1002.3	995.1	986.3	977.6	969.3
5°	1110.0	1110.0	1106.4	1095.6	1078.6	1061.1	1053.4	1039.4	1014.7	994.6	977.6
7.5°	1193.0	1194.1	1186.8	1170.8	1146.6	1118.3	1111.0	1090.4	1055.4	1026.0	1000.8
10°	1264.6	1264.6	1254.9	1233.2	1202.8	1171.8	1164.6	1141.5	1102.3	1065.7	1032.7
12.5°	1319.3	1319.3	1306.4	1278.1	1245.0	1217.2	1208.9	1186.8	1150.2	1109.5	1067.7
15°	1354.9	1352.2	1337.8	1305.8	1273.9	1249.6	1244.0	1225.4	1191.9	1150.7	1103.8
17.5°	1356.4	1355.4	1341.4	1314.7	1286.8	1270.3	1266.7	1254.4	1228.0	1188.8	1139.4
20°	1326.5	1328.5	1319.3	1300.2	1286.8	1279.6	1278.1	1273.9	1255.4	1218.8	1169.3
22.5°	1294.6	1298.1	1289.3	1279.1	1278.1	1285.2	1286.3	1287.3	1275.5	1239.9	1194.6
25°	1286.8	1289.3	1280.6	1271.3	1277.0	1296.1	1300.2	1304.3	1295.1	1265.1	1224.4
27.5°	1325.9	1323.9	1306.9	1286.8	1290.4	1316.2	1321.8	1326.5	1321.8	1296.1	1261.5
30°	1436.8	1430.0	1396.1	1337.3	1318.8	1336.8	1342.4	1355.4	1355.4	1336.3	1301.7
32.5°	1622.3	1609.4	1547.0	1431.6	1367.2	1356.4	1362.0	1383.2	1394.0	1379.1	1341.4
35°	1847.5	1834.1	1744.9	1589.8	1455.9	1395.6	1394.0	1417.7	1446.5	1413.0	1364.1
37.5°	2073.7	2059.8	1952.6	1778.4	1585.2	1478.0	1468.7	1477.0	1489.3	1428.0	1395.6
40°	2300.0	2283.5	2189.6	1989.2	1743.4	1587.2	1563.0	1525.9	1520.8	1477.0	1456.4
42.5°	2524.1	2509.1	2461.8	2225.7	1933.0	1693.9	1656.8	1592.9	1612.4	1586.2	1568.1
45°	2750.3	2751.3	2700.9	2491.1	2161.8	1890.7	1840.8	1740.8	1787.2	1777.4	1787.7
47.5°	2950.8	2948.2	2930.2	2748.8	2445.8	2144.3	2079.9	1963.9	2043.3	2079.4	2158.2
50°	3145.1	3143.6	3144.6	3041.0	2775.6	2445.8	2374.6	2253.0	2431.8	2557.1	2698.3
52.5°	3423.4	3432.1	3369.8	3342.5	3176.5	2801.9	2723.6	2597.8	2891.0	3088.4	3364.1
55°	3702.7	3695.4	3646.5	3674.8	3596.0	3223.4	3141.5	3041.5	3402.3	3618.2	4032.5
57.5°	3867.1	3869.6	3919.6	4058.2	4113.9	3749.0	3674.8	3597.5	3976.8	4129.9	4627.2
60°	4014.9	4026.8	4170.6	4432.4	4583.4	4394.7	4328.8	4253.5	4504.0	4564.9	5143.6
62.5°	4061.4	4097.9	4348.9	4740.5	5041.0	5123.5	5041.5	4875.5	5006.0	4982.3	5493.4
65°	3830.0	3880.0	4329.8	4856.0	5449.7	5815.0	5763.0	5454.8	5433.7	5290.9	5550.7
67.5°	3220.9	3270.8	3848.5	4613.8	5618.7	6413.8	6361.8	5877.4	5693.4	5319.7	5117.7
70°	2356.7	2388.0	2940.5	3884.6	5279.0	6614.8	6632.9	6083.5	5600.6	4927.6	4202.1
72.5°	1357.9	1427.5	1814.5	2732.8	4312.8	6106.7	6231.9	5654.7	5014.2	4110.8	2937.9
75°	583.9	585.4	839.0	1507.3	2920.9	4908.6	5029.7	4687.5	3937.6	2842.6	1568.6
77.5°	277.8	282.9	368.9	673.1	1607.8	3391.4	3718.1	3311.5	2518.5	1365.6	592.7
80°	180.4	184.0	225.7	334.0	788.4	1966.5	2194.3	1910.3	1111.0	488.0	255.6
82.5°	109.2	110.3	151.0	204.1	433.9	890.5	1049.7	829.1	474.1	292.2	150.5
85°	66.4	67.0	91.8	126.2	263.3	307.6	315.9	313.4	278.3	191.2	80.4
87.5°	32.0	33.0	47.4	59.8	103.6	95.4	90.2	104.6	131.4	103.1	34.6
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°	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7	966.7
2.5°	965.7	964.2	960.6	959.1	958.0	958.5	958.0	958.0	958.5	958.5	958.5
5°	970.3	967.8	962.1	962.1	965.2	972.4	979.1	984.3	989.9	989.4	989.4
7.5°	990.4	985.8	979.1	981.2	988.9	1000.3	1012.1	1023.4	1034.8	1035.9	1035.3
10°	1019.9	1015.2	1008.0	1010.5	1022.9	1040.0	1054.9	1071.3	1083.7	1087.3	1086.3
12.5°	1053.4	1044.1	1037.9	1045.1	1064.7	1087.3	1101.8	1114.2	1122.9	1128.0	1126.0
15°	1087.3	1078.6	1071.3	1086.3	1110.0	1131.1	1138.4	1140.4	1142.0	1147.1	1146.1
17.5°	1120.3	1108.5	1105.9	1125.5	1148.1	1157.5	1153.3	1144.5	1137.9	1142.0	1141.5
20°	1149.7	1140.4	1139.4	1159.0	1167.7	1159.0	1141.5	1126.0	1114.2	1115.2	1114.7
22.5°	1177.6	1170.3	1171.3	1179.6	1165.7	1135.8	1106.9	1085.8	1072.9	1075.5	1077.1
25°	1208.4	1201.2	1203.8	1190.4	1144.5	1092.5	1050.7	1032.7	1027.5	1032.7	1036.4
27.5°	1248.6	1244.0	1242.5	1190.9	1106.9	1028.6	981.2	974.5	979.1	990.4	996.2
30°	1291.9	1291.9	1283.7	1182.2	1055.4	951.8	910.6	911.6	927.6	943.6	949.2
32.5°	1333.7	1342.4	1316.7	1158.5	988.9	877.1	845.6	846.7	860.6	880.2	885.3
35°	1368.2	1393.5	1345.0	1115.2	910.6	814.3	790.5	776.6	777.1	792.1	796.2
37.5°	1415.7	1462.5	1361.5	1050.7	827.1	760.6	733.9	709.6	693.7	687.4	687.4
40°	1498.1	1567.1	1365.6	955.5	748.2	709.6	671.5	642.6	611.7	583.9	578.7
42.5°	1637.8	1724.8	1357.4	845.6	677.2	653.5	616.4	580.8	538.0	498.9	495.8
45°	1885.1	1929.9	1335.3	731.8	613.8	599.3	563.2	524.6	479.3	444.2	441.6
47.5°	2281.4	2218.0	1305.8	630.8	556.1	551.9	524.1	479.3	433.9	409.7	407.1
50°	2860.1	2671.5	1301.7	557.6	509.6	511.7	489.0	447.8	408.1	388.0	384.9
52.5°	3556.8	3219.3	1329.0	506.0	468.9	476.7	465.3	427.2	392.2	375.2	372.1
55°	4232.9	3711.9	1345.5	465.8	430.8	445.2	446.8	414.9	382.9	365.9	363.8
57.5°	4781.8	4083.0	1272.3	429.2	397.9	420.0	431.3	407.6	378.3	365.3	363.3
60°	5163.7	4258.2	1064.2	396.8	373.7	399.9	425.6	408.1	389.6	391.1	392.2
62.5°	5285.3	4180.4	798.3	372.6	357.1	393.2	435.0	429.2	410.2	422.1	424.1
65°	5083.8	3858.8	578.7	353.6	342.7	397.9	462.8	444.7	403.0	411.8	411.8
67.5°	4409.2	3324.4	450.4	336.0	326.2	406.6	490.6	443.2	386.0	396.3	387.0
70°	3497.6	2571.5	375.2	316.4	308.6	393.8	493.2	427.2	365.9	367.9	350.4
72.5°	2321.1	1690.8	322.6	297.9	281.9	354.1	472.1	406.6	346.3	334.5	316.9
75°	1137.4	843.1	281.4	274.7	246.8	308.1	443.2	387.0	325.2	306.6	296.9
77.5°	440.6	358.7	240.1	245.3	214.9	271.6	405.0	359.2	297.4	272.1	264.3
80°	213.9	203.5	196.9	204.6	176.8	231.4	370.0	335.0	271.6	243.7	232.5
82.5°	133.0	125.7	151.0	159.2	136.1	211.3	350.9	314.4	239.1	202.0	192.8
85°	67.5	72.2	101.0	108.7	97.4	168.0	289.1	236.0	172.7	143.2	144.3
87.5°	25.7	34.6	53.1	57.2	52.1	88.6	159.2	137.6	110.8	75.3	69.6
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)