

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: P522685

Luminaire Tested: **GALN-SA3A-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522685
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-SA3A-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10043 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

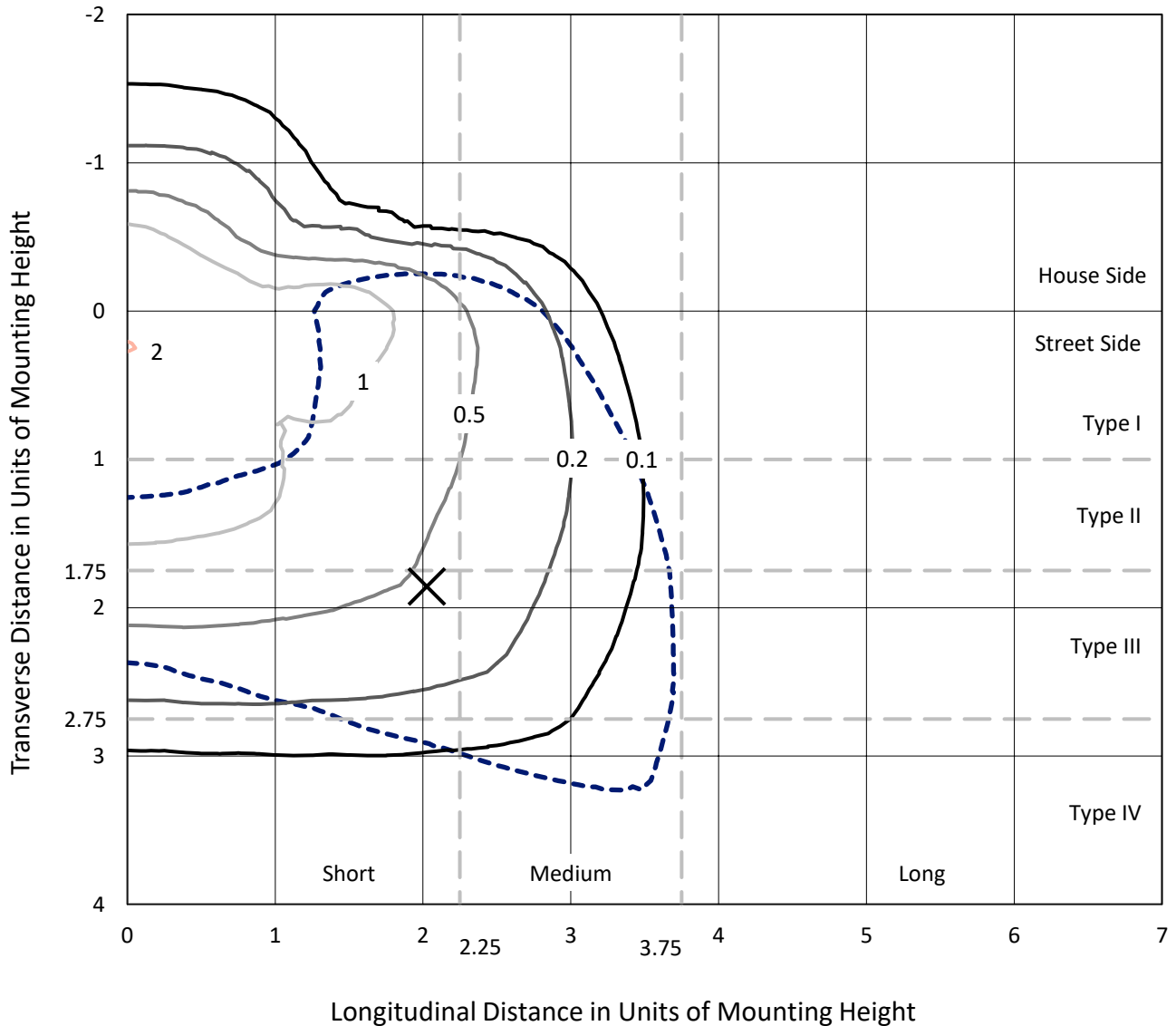
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

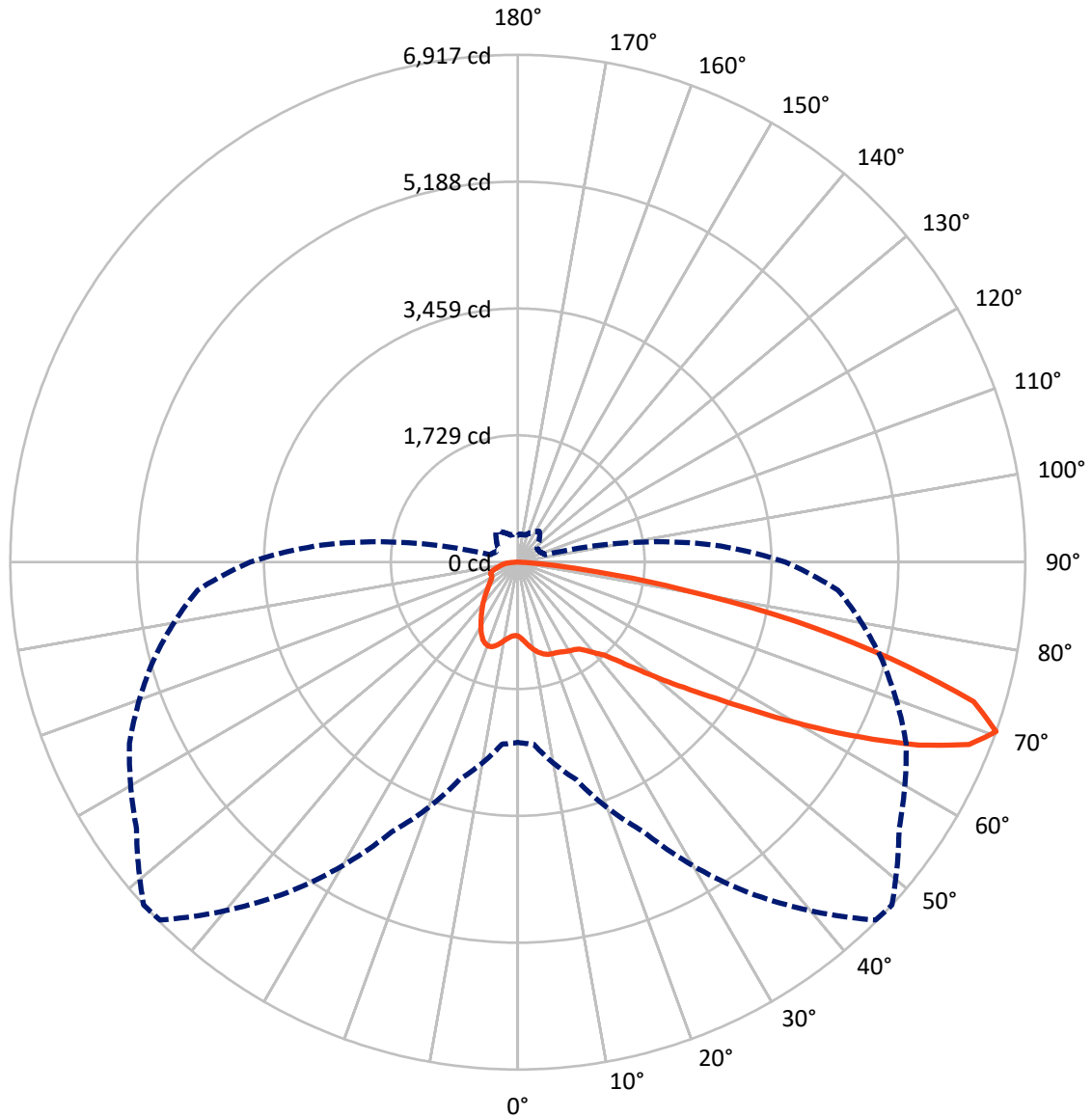
× Max cd
 - - - 1/2 Max cd



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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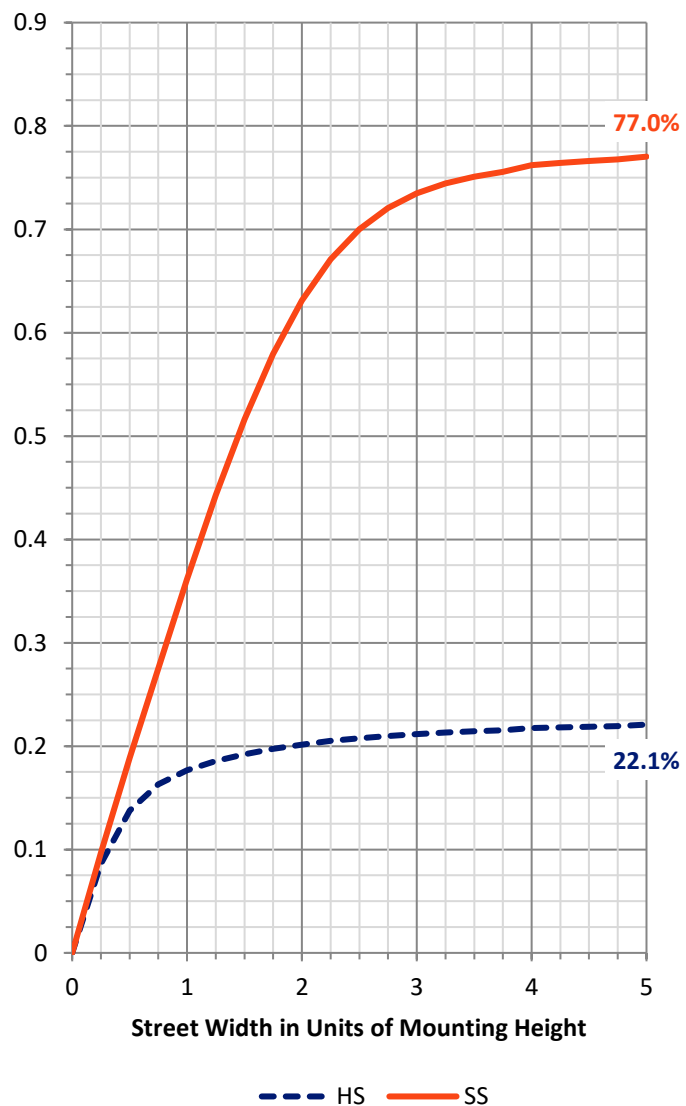
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2273.9	0.0	2273.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7769.1	0.0	7769.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	10043.0	0.0	10043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.0
10°-20°	347.4	3.5
20°-30°	577.8	5.8
30°-40°	818.9	8.2
40°-50°	1208.9	12.0
50°-60°	2093.8	20.8
60°-70°	2957.6	29.4
70°-80°	1700.2	16.9
80°-90°	234.6	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°	10043.0	100.0
0°-180°	10043.0	100.0

Coefficient of Utilization



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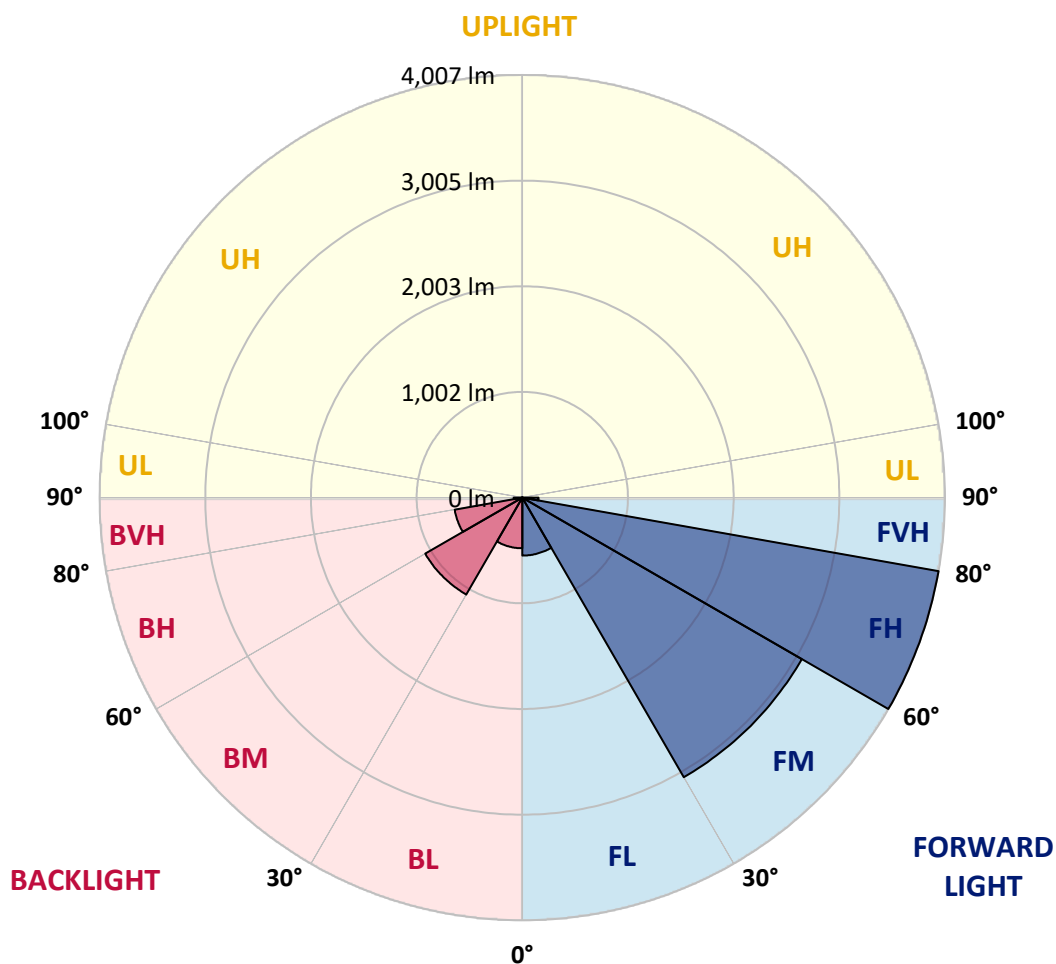
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.2	5.5			
FM	(30°-60°)	3059.9	30.5			
FH	(60°-80°)	4006.7	39.9			G2/5000
FVH	(80°-90°)	153.2	1.5			G2/225
BL	(0°-30°)	479.9	4.8	B1/500		
BM	(30°-60°)	1061.7	10.6	B2/2500		
BH	(60°-80°)	651.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	81.3	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°	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2
2.5°	1073.2	1069.5	1068.9	1060.9	1056.6	1048.5	1045.3	1037.8	1028.6	1019.5	1010.9
5°	1157.6	1157.6	1153.8	1142.6	1124.8	1106.5	1098.5	1084.0	1058.2	1037.2	1019.5
7.5°	1244.1	1245.2	1237.7	1221.0	1195.8	1166.2	1158.7	1137.2	1100.6	1070.0	1043.7
10°	1318.8	1318.8	1308.6	1286.0	1254.3	1222.1	1214.6	1190.4	1149.5	1111.4	1077.0
12.5°	1375.8	1375.8	1362.4	1332.8	1298.4	1269.4	1260.8	1237.7	1199.5	1157.1	1113.5
15°	1412.9	1410.2	1395.1	1361.8	1328.5	1303.2	1297.3	1278.0	1243.0	1200.1	1151.1
17.5°	1414.5	1413.4	1398.9	1371.0	1341.9	1324.7	1321.0	1308.1	1280.7	1239.8	1188.2
20°	1383.3	1385.5	1375.8	1355.9	1341.9	1334.4	1332.8	1328.5	1309.2	1271.0	1219.4
22.5°	1350.0	1353.8	1344.6	1333.9	1332.8	1340.3	1341.4	1342.5	1330.1	1293.0	1245.7
25°	1341.9	1344.6	1335.5	1325.8	1331.7	1351.6	1355.9	1360.2	1350.5	1319.4	1276.9
27.5°	1382.8	1380.6	1362.9	1341.9	1345.7	1372.6	1378.5	1383.3	1378.5	1351.6	1315.6
30°	1498.3	1491.3	1455.9	1394.6	1375.3	1394.1	1400.0	1413.4	1413.4	1393.5	1357.5
32.5°	1691.8	1678.4	1613.3	1492.9	1425.8	1414.5	1420.4	1442.4	1453.7	1438.1	1398.9
35°	1926.6	1912.7	1819.7	1657.9	1518.2	1455.3	1453.7	1478.4	1508.5	1473.6	1422.5
37.5°	2162.6	2148.1	2036.3	1854.6	1653.1	1541.3	1531.6	1540.2	1553.1	1489.2	1455.3
40°	2398.5	2381.3	2283.5	2074.4	1818.1	1655.2	1630.0	1591.3	1585.9	1540.2	1518.7
42.5°	2632.3	2616.7	2567.2	2321.1	2015.9	1766.5	1727.8	1661.2	1681.6	1654.2	1635.4
45°	2868.2	2869.3	2816.6	2597.9	2254.5	1971.8	1919.7	1815.4	1863.8	1853.6	1864.3
47.5°	3077.3	3074.6	3055.8	2866.6	2550.6	2236.2	2169.0	2048.1	2130.9	2168.5	2250.7
50°	3279.9	3278.3	3279.3	3171.3	2894.5	2550.6	2476.4	2349.6	2536.1	2666.7	2813.9
52.5°	3570.1	3579.2	3514.2	3485.7	3312.6	2921.9	2840.3	2709.1	3014.9	3220.7	3508.3
55°	3861.3	3853.8	3802.8	3832.3	3750.1	3361.6	3276.1	3171.8	3548.0	3773.2	4205.3
57.5°	4032.8	4035.5	4087.6	4232.2	4290.2	3909.7	3832.3	3751.7	4147.3	4306.9	4825.5
60°	4187.0	4199.4	4349.3	4622.3	4779.8	4583.1	4514.3	4435.8	4697.0	4760.4	5364.0
62.5°	4235.4	4273.5	4535.3	4943.7	5257.0	5343.0	5257.6	5084.5	5220.5	5195.8	5728.9
65°	3994.1	4046.2	4515.4	5064.1	5683.2	6064.2	6009.9	5688.6	5666.5	5517.7	5788.5
67.5°	3358.9	3411.0	4013.4	4811.5	5859.5	6688.7	6634.4	6129.3	5937.4	5547.8	5337.1
70°	2457.6	2490.4	3066.5	4051.1	5505.3	6898.3	6917.1	6344.2	5840.7	5138.8	4382.1
72.5°	1416.1	1488.6	1892.2	2849.9	4497.7	6368.4	6499.0	5897.1	5229.1	4287.0	3063.8
75°	608.9	610.5	874.9	1571.9	3046.1	5118.9	5245.2	4888.4	4106.4	2964.4	1635.9
77.5°	289.7	295.0	384.8	701.9	1676.7	3536.7	3877.5	3453.4	2626.4	1424.2	618.0
80°	188.1	191.9	235.4	348.2	822.2	2050.8	2288.3	1992.2	1158.7	508.9	266.6
82.5°	113.9	115.0	157.5	212.8	452.5	928.7	1094.7	864.7	494.4	304.7	156.9
85°	69.3	69.9	95.7	131.7	274.6	320.8	329.4	326.8	290.2	199.4	83.8
87.5°	33.3	34.4	49.4	62.3	108.0	99.4	94.0	109.1	137.0	107.5	36.0
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°	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2	1008.2
2.5°	1007.1	1005.5	1001.7	1000.1	999.1	999.6	999.1	999.1	999.6	999.6	999.6
5°	1012.0	1009.3	1003.4	1003.4	1006.6	1014.1	1021.1	1026.5	1032.4	1031.8	1031.8
7.5°	1032.9	1028.1	1021.1	1023.2	1031.3	1043.1	1055.5	1067.3	1079.1	1080.2	1079.7
10°	1063.6	1058.7	1051.2	1053.9	1066.8	1084.5	1100.1	1117.3	1130.2	1134.0	1132.9
12.5°	1098.5	1088.8	1082.4	1089.9	1110.3	1134.0	1149.0	1161.9	1171.0	1176.4	1174.3
15°	1134.0	1124.8	1117.3	1132.9	1157.6	1179.6	1187.2	1189.3	1190.9	1196.3	1195.2
17.5°	1168.3	1156.0	1153.3	1173.7	1197.4	1207.0	1202.7	1193.6	1186.6	1190.9	1190.4
20°	1199.0	1189.3	1188.2	1208.7	1217.8	1208.7	1190.4	1174.3	1161.9	1163.0	1162.4
22.5°	1228.0	1220.5	1221.6	1230.2	1215.6	1184.5	1154.4	1132.3	1118.9	1121.6	1123.2
25°	1260.2	1252.7	1255.4	1241.4	1193.6	1139.3	1095.8	1077.0	1071.6	1077.0	1080.7
27.5°	1302.2	1297.3	1295.7	1242.0	1154.4	1072.7	1023.2	1016.3	1021.1	1032.9	1038.8
30°	1347.3	1347.3	1338.7	1232.8	1100.6	992.6	949.6	950.7	967.4	984.0	989.9
32.5°	1390.8	1400.0	1373.1	1208.1	1031.3	914.7	881.9	883.0	897.5	917.9	923.3
35°	1426.8	1453.2	1402.7	1163.0	949.6	849.1	824.4	809.9	810.4	826.0	830.3
37.5°	1476.3	1525.2	1419.9	1095.8	862.6	793.2	765.3	740.0	723.4	716.9	716.9
40°	1562.3	1634.3	1424.2	996.4	780.3	740.0	700.3	670.2	637.9	608.9	603.5
42.5°	1707.9	1798.7	1415.6	881.9	706.2	681.4	642.8	605.7	561.1	520.2	517.0
45°	1965.9	2012.6	1392.5	763.1	640.1	625.0	587.4	547.1	499.8	463.3	460.6
47.5°	2379.1	2313.0	1361.8	657.8	579.9	575.6	546.6	499.8	452.5	427.2	424.6
50°	2982.7	2786.0	1357.5	581.5	531.5	533.7	510.0	467.0	425.6	404.7	401.5
52.5°	3709.3	3357.3	1386.0	527.7	489.1	497.1	485.3	445.5	409.0	391.2	388.0
55°	4414.4	3871.0	1403.2	485.8	449.3	464.3	465.9	432.6	399.3	381.6	379.4
57.5°	4986.7	4258.0	1326.9	447.7	414.9	438.0	449.8	425.1	394.5	381.0	378.9
60°	5384.9	4440.7	1109.8	413.8	389.6	417.0	443.9	425.6	406.3	407.9	409.0
62.5°	5511.8	4359.5	832.5	388.6	372.4	410.1	453.6	447.7	427.8	440.1	442.3
65°	5301.6	4024.2	603.5	368.7	357.4	414.9	482.6	463.8	420.3	429.4	429.4
67.5°	4598.1	3466.9	469.7	350.4	340.2	424.0	511.6	462.2	402.5	413.3	403.6
70°	3647.5	2681.7	391.2	330.0	321.9	410.6	514.3	445.5	381.6	383.7	365.4
72.5°	2420.5	1763.3	336.4	310.6	294.0	369.2	492.3	424.0	361.1	348.8	330.5
75°	1186.1	879.2	293.4	286.4	257.4	321.4	462.2	403.6	339.1	319.8	309.6
77.5°	459.5	374.0	250.4	255.8	224.1	283.2	422.4	374.6	310.1	283.8	275.7
80°	223.0	212.3	205.3	213.4	184.3	241.3	385.9	349.3	283.2	254.2	242.4
82.5°	138.7	131.1	157.5	166.1	141.9	220.3	366.0	327.8	249.4	210.7	201.0
85°	70.4	75.2	105.3	113.4	101.6	175.2	301.5	246.1	180.0	149.4	150.5
87.5°	26.9	36.0	55.4	59.7	54.3	92.4	166.1	143.5	115.5	78.5	72.6
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)