

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: P648295

Luminaire Tested: **GALN-SA2B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8940.3 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

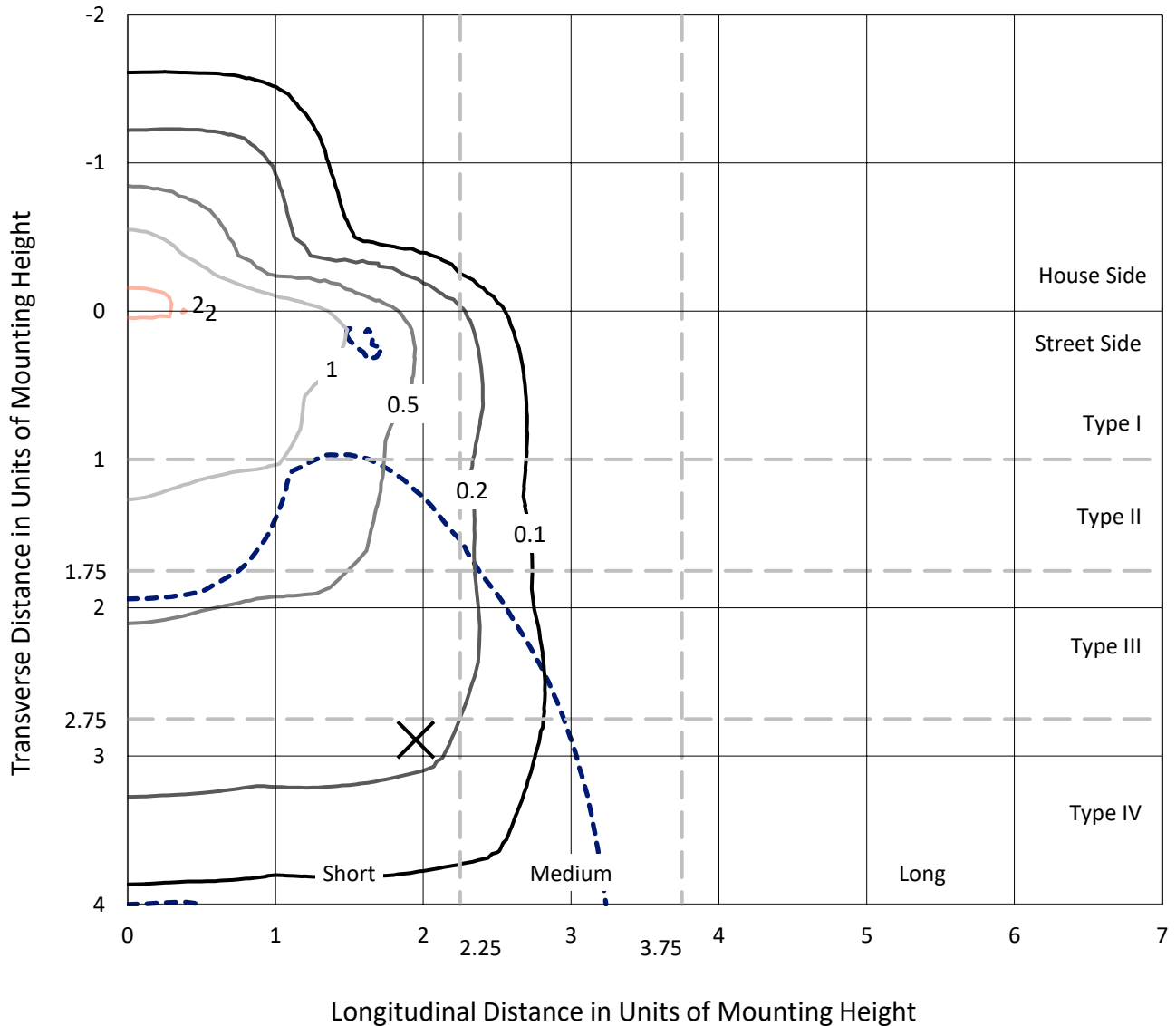
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

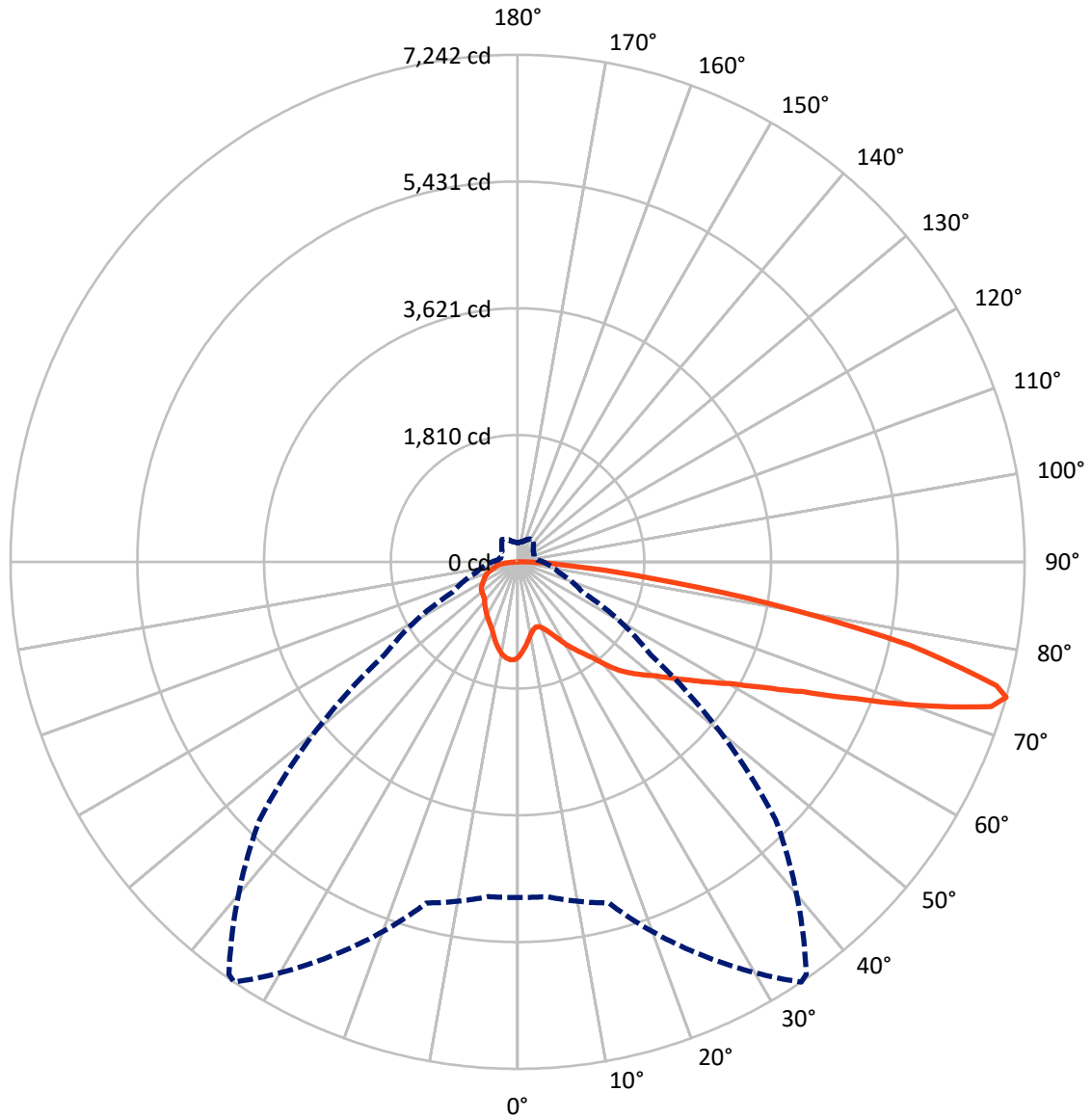
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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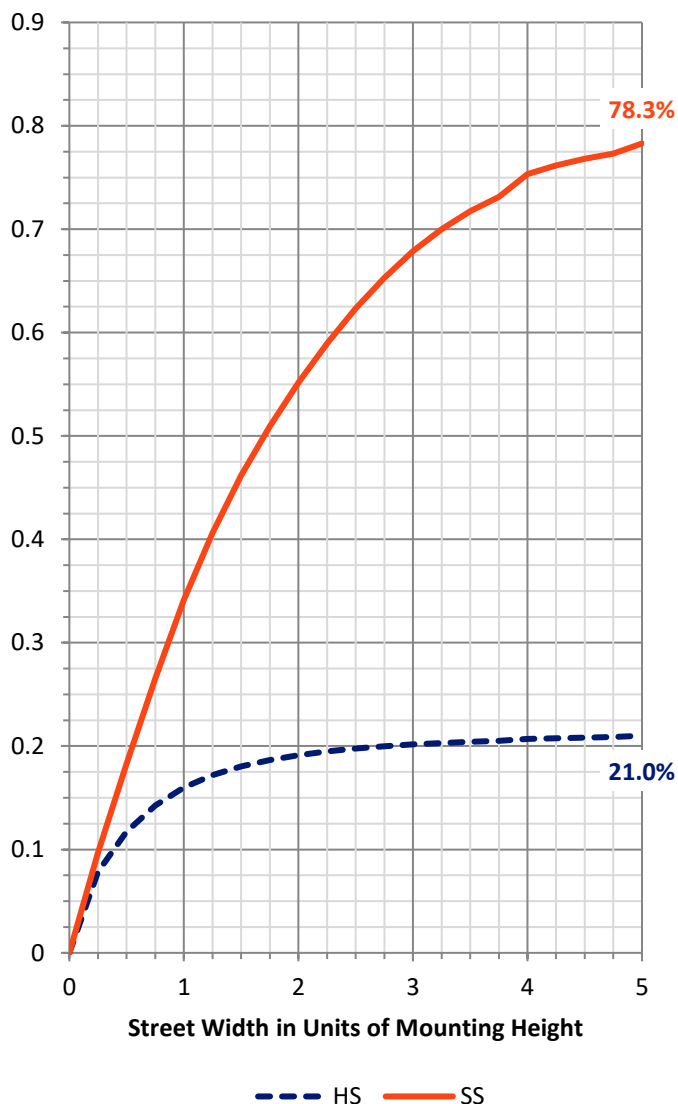
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.6	0.0	1902.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7037.7	0.0	7037.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	8940.3	0.0	8940.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	1.4
10°-20°	339.8	3.8
20°-30°	560.3	6.3
30°-40°	839.3	9.4
40°-50°	1220.0	13.6
50°-60°	1704.1	19.1
60°-70°	2133.5	23.9
70°-80°	1764.2	19.7
80°-90°	254.9	2.9
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°	8940.3	100.0
0°-180°	8940.3	100.0

Coefficient of Utilization

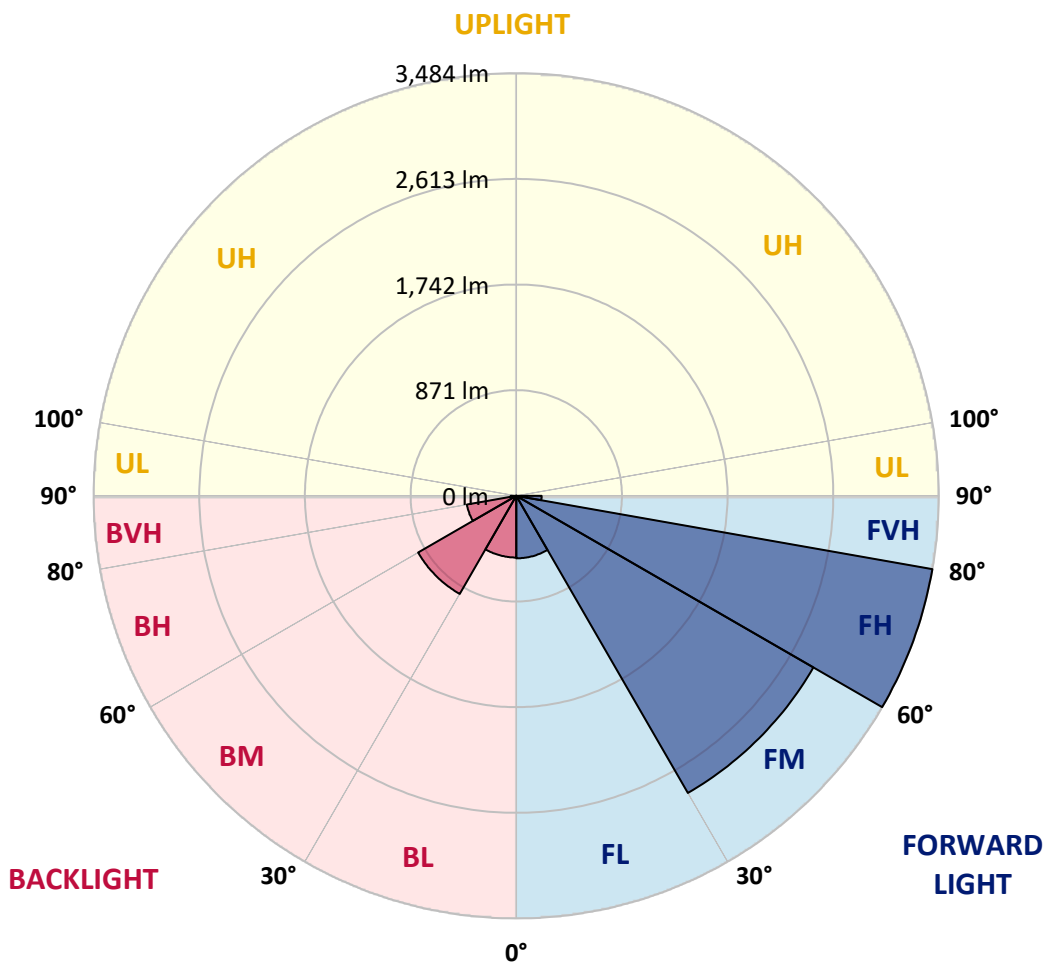


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.4	5.8			
FM (30°-60°)	2829.1	31.6			
FH (60°-80°)	3484.5	39.0			G2/5000
FVH (80°-90°)	208.8	2.3			G2/225
BL (0°-30°)	508.9	5.7	B2/1000		
BM (30°-60°)	934.4	10.5	B1/1000		
BH (60°-80°)	413.2	4.6	B1/500		G1/500
BVH (80°-90°)	46.1	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1261.5	1267.9	1271.4	1283.8	1286.8	1290.7	1301.1	1315.0	1332.8	1348.6	1362.5
5°	1156.5	1166.4	1172.3	1183.3	1204.6	1206.5	1234.2	1266.0	1302.1	1335.8	1363.5
7.5°	1057.0	1067.9	1072.8	1092.6	1120.9	1125.2	1165.9	1215.9	1276.4	1327.3	1369.9
10°	982.1	987.6	998.5	1013.4	1047.0	1050.0	1103.0	1169.9	1248.1	1323.4	1380.8
12.5°	941.6	944.5	947.0	962.9	996.1	1000.4	1056.0	1131.7	1225.9	1326.4	1398.7
15°	947.5	948.4	937.6	940.5	967.3	973.7	1028.7	1106.5	1211.9	1333.8	1425.5
17.5°	997.5	994.0	967.3	953.5	972.3	975.2	1023.2	1096.6	1205.5	1347.7	1453.2
20°	1076.2	1071.3	1025.3	994.6	1005.5	1007.9	1041.1	1104.0	1211.9	1370.5	1496.2
22.5°	1174.3	1172.3	1102.5	1065.3	1064.9	1064.9	1082.2	1130.7	1231.3	1401.6	1541.3
25°	1311.5	1301.1	1210.0	1162.0	1148.6	1147.6	1145.6	1174.8	1256.0	1434.8	1594.8
27.5°	1452.2	1434.4	1353.1	1279.3	1250.6	1247.2	1234.2	1237.2	1287.7	1472.5	1655.7
30°	1578.4	1567.1	1490.8	1409.1	1374.9	1367.0	1331.3	1315.0	1340.7	1540.3	1752.8
32.5°	1675.1	1668.1	1608.7	1534.4	1483.9	1482.4	1430.4	1417.0	1423.4	1622.5	1863.8
35°	1753.3	1755.8	1725.6	1661.2	1603.3	1594.8	1560.1	1543.3	1524.5	1741.4	2003.5
37.5°	1860.3	1865.7	1863.8	1808.3	1737.5	1739.4	1731.5	1703.8	1653.8	1874.2	2158.4
40°	1978.2	1982.2	1981.6	1960.3	1923.2	1925.2	1922.2	1890.5	1815.7	2043.1	2330.8
42.5°	2141.1	2122.3	2073.2	2094.5	2116.4	2125.8	2146.0	2115.8	2013.3	2223.3	2492.8
45°	2323.4	2287.7	2176.7	2186.7	2267.4	2285.3	2397.2	2355.6	2227.8	2430.4	2683.4
47.5°	2438.3	2403.1	2309.5	2307.5	2414.5	2431.8	2629.9	2614.6	2422.9	2653.7	2916.2
50°	2540.8	2535.8	2430.4	2455.6	2560.1	2585.9	2883.6	2869.2	2617.6	2917.2	3169.8
52.5°	2692.9	2652.7	2568.6	2620.5	2758.7	2792.4	3135.1	3093.1	2796.4	3150.0	3416.0
55°	2761.2	2751.8	2746.8	2791.9	2981.6	3005.9	3379.8	3283.3	2948.9	3347.2	3603.2
57.5°	2944.0	2926.6	2975.6	3006.4	3244.1	3281.2	3635.4	3481.8	3082.7	3503.6	3694.4
60°	3180.7	3171.3	3216.4	3271.8	3537.4	3593.8	3926.6	3651.2	3190.1	3582.4	3644.3
62.5°	3534.4	3533.4	3524.9	3643.8	3952.9	4004.9	4260.9	3816.2	3206.9	3523.4	3385.8
65°	4041.5	4023.7	3950.4	4080.1	4469.9	4530.9	4609.1	3908.3	3105.5	3220.9	2850.8
67.5°	4572.0	4571.0	4511.6	4679.9	5212.4	5275.3	5044.5	3888.0	2823.7	2609.2	2024.8
70°	5011.8	4990.5	5066.2	5515.0	6160.9	6233.7	5425.3	3648.8	2249.1	1723.1	1203.1
72.5°	5117.3	5118.3	5275.8	6158.8	7071.7	7083.1	5562.5	2957.3	1505.2	950.5	601.7
74°	4792.4	4800.8	5044.9	6191.1	7241.6	7190.1	5211.9	2324.3	1017.8	620.6	433.9
75°	4374.4	4321.4	4674.5	5976.6	7065.2	7009.8	4801.3	1865.3	776.6	495.8	379.9
77.5°	2338.7	2392.7	2937.5	4460.0	5739.9	5676.0	3255.5	894.5	419.5	345.2	273.4
80°	832.6	918.2	1290.7	2333.8	3679.9	3699.8	1553.7	410.1	295.2	254.6	193.2
82.5°	339.7	349.1	554.2	1035.7	1868.7	1886.6	634.5	243.7	211.0	175.3	115.4
85°	132.7	136.7	245.2	465.6	797.4	849.4	219.4	128.8	129.7	100.5	59.0
87.5°	44.6	50.5	100.5	155.0	270.9	265.4	63.9	38.1	46.6	43.6	18.3
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°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1369.5	1378.9	1385.3	1392.3	1398.7	1400.6	1399.1	1403.6	1404.2	1404.6	1405.1
5°	1377.4	1390.3	1402.7	1409.6	1412.5	1410.1	1401.6	1397.2	1393.3	1390.3	1391.2
7.5°	1388.3	1406.6	1418.0	1421.0	1413.1	1401.6	1380.8	1364.5	1354.1	1347.2	1346.7
10°	1405.1	1422.9	1432.3	1424.0	1402.1	1374.4	1341.7	1311.1	1287.7	1280.8	1280.3
12.5°	1426.4	1446.7	1446.2	1421.5	1383.3	1333.8	1280.8	1245.1	1213.4	1197.6	1204.0
15°	1454.2	1469.5	1455.1	1410.6	1350.1	1282.3	1216.9	1168.4	1132.7	1115.9	1116.9
17.5°	1486.4	1499.8	1461.5	1391.2	1303.6	1216.4	1140.7	1094.6	1066.4	1054.0	1053.0
20°	1526.5	1530.5	1461.5	1357.6	1243.6	1139.7	1067.3	1035.1	1019.3	1012.9	1014.8
22.5°	1569.5	1561.6	1453.6	1310.0	1164.9	1059.4	1010.9	996.5	988.6	987.6	988.6
25°	1618.1	1595.8	1437.4	1245.7	1082.7	990.1	961.8	964.3	965.8	965.8	969.3
27.5°	1677.5	1632.9	1410.1	1164.4	986.6	925.7	917.8	935.1	943.0	944.5	947.0
30°	1755.8	1673.6	1365.0	1062.8	904.9	867.7	881.6	904.9	913.8	919.2	918.2
32.5°	1848.9	1718.1	1304.1	961.4	839.0	827.2	844.0	867.7	877.7	880.6	876.6
35°	1958.4	1768.6	1223.8	866.2	781.6	788.5	808.3	815.7	824.7	824.7	826.6
37.5°	2076.2	1809.3	1125.8	779.1	737.0	762.3	776.6	769.7	765.7	760.8	763.3
40°	2196.1	1839.5	998.5	692.9	692.4	735.0	739.0	719.2	703.3	698.4	695.9
42.5°	2300.6	1858.3	883.6	626.0	650.3	708.2	711.2	679.6	654.3	639.4	634.5
45°	2423.9	1880.1	771.2	570.6	611.2	686.9	694.4	651.8	614.7	583.4	575.5
47.5°	2592.8	1929.6	682.5	527.5	582.9	673.6	684.0	629.0	580.0	539.3	532.9
50°	2783.5	1997.5	613.6	498.2	561.2	661.7	674.6	605.7	547.8	502.7	497.8
52.5°	2958.3	2034.2	554.2	472.0	539.9	639.9	662.2	588.9	516.1	466.0	461.6
55°	3053.9	1974.7	495.8	446.2	510.7	611.7	644.9	565.6	485.4	446.8	440.3
57.5°	3066.8	1851.9	442.8	418.5	479.9	577.0	612.7	537.4	465.6	433.4	427.9
60°	2967.3	1668.7	401.7	395.7	448.7	537.8	576.5	512.6	445.3	418.5	413.0
62.5°	2719.6	1469.5	372.9	374.9	417.0	496.7	549.7	488.8	426.0	402.1	397.2
65°	2293.6	1212.9	345.2	353.6	388.8	464.6	525.5	469.0	406.6	389.8	385.3
67.5°	1593.3	875.6	322.4	331.4	362.1	431.9	497.3	447.7	384.8	375.9	368.9
70°	882.1	538.9	295.7	306.1	334.3	395.3	465.6	415.5	353.1	349.1	339.3
72.5°	463.6	343.3	265.4	276.9	296.7	348.2	417.0	380.4	322.0	305.1	292.2
74°	362.1	281.3	245.2	257.1	270.4	320.5	388.3	355.1	299.7	279.8	269.9
75°	315.5	250.6	227.9	243.2	255.1	301.6	366.1	337.3	287.3	268.4	259.6
77.5°	222.8	187.7	186.2	204.5	211.0	264.5	329.9	307.1	256.0	236.2	227.9
80°	156.5	140.6	147.6	158.9	167.9	233.8	306.1	265.4	210.0	186.7	183.8
82.5°	102.0	92.2	105.5	115.9	118.9	172.3	247.1	201.5	153.1	124.3	115.4
85°	47.1	46.0	60.4	59.0	58.4	84.2	146.6	117.8	88.2	65.9	61.9
87.5°	11.9	11.4	14.9	12.4	14.9	12.8	13.4	3.4	0.5	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)