

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: P646752

Luminaire Tested: **GALN-SA1C-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5700.2 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

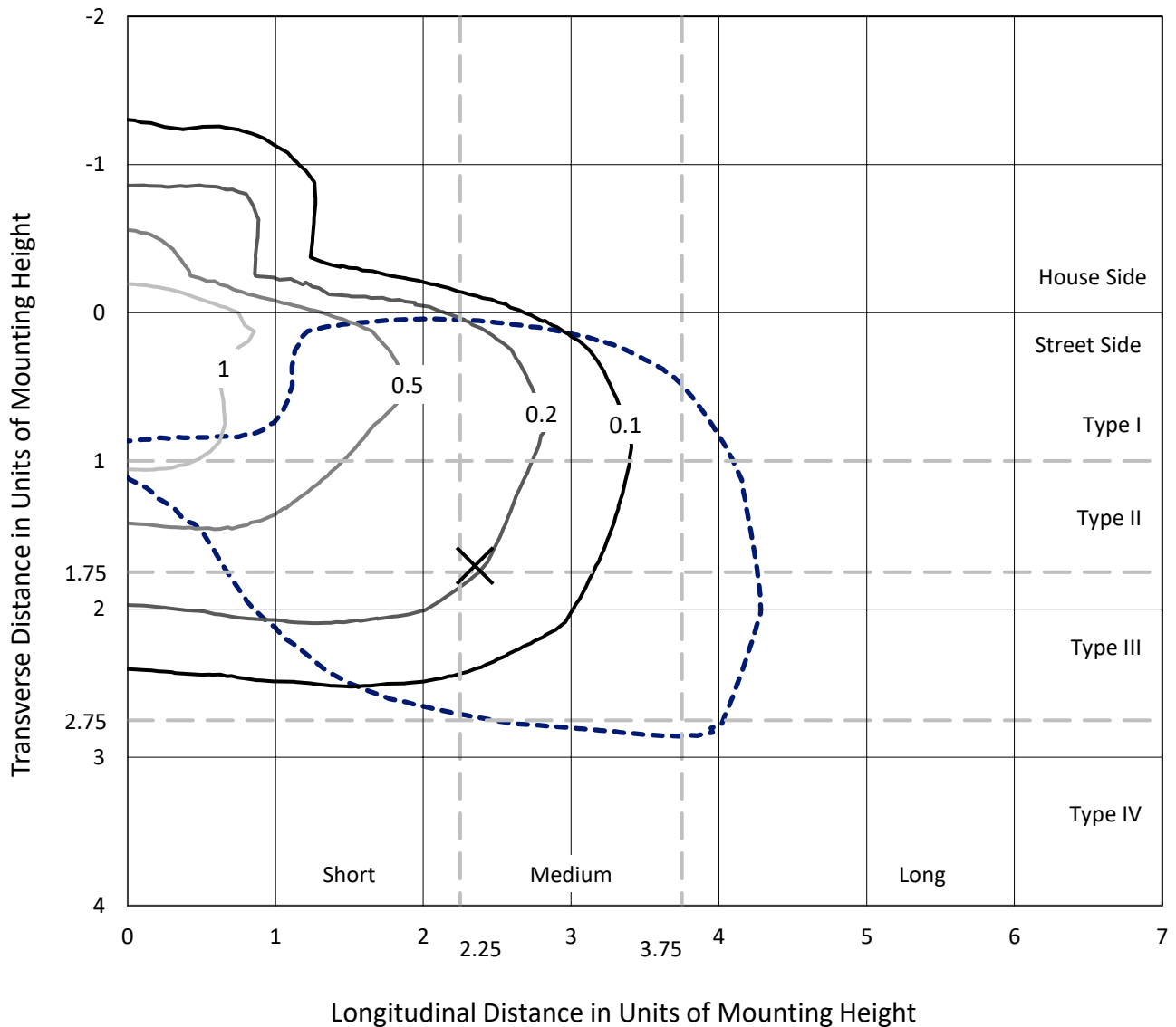
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

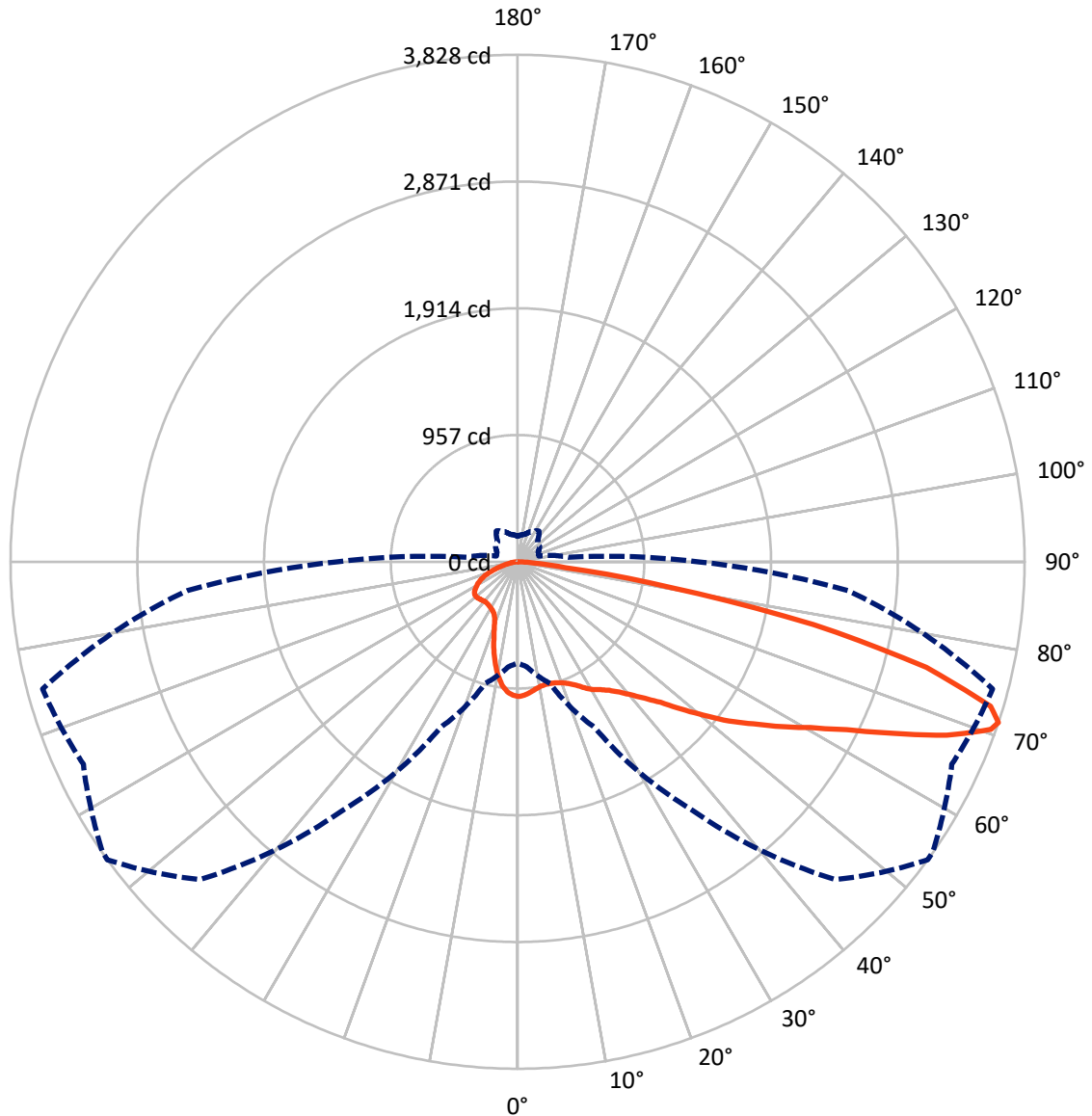
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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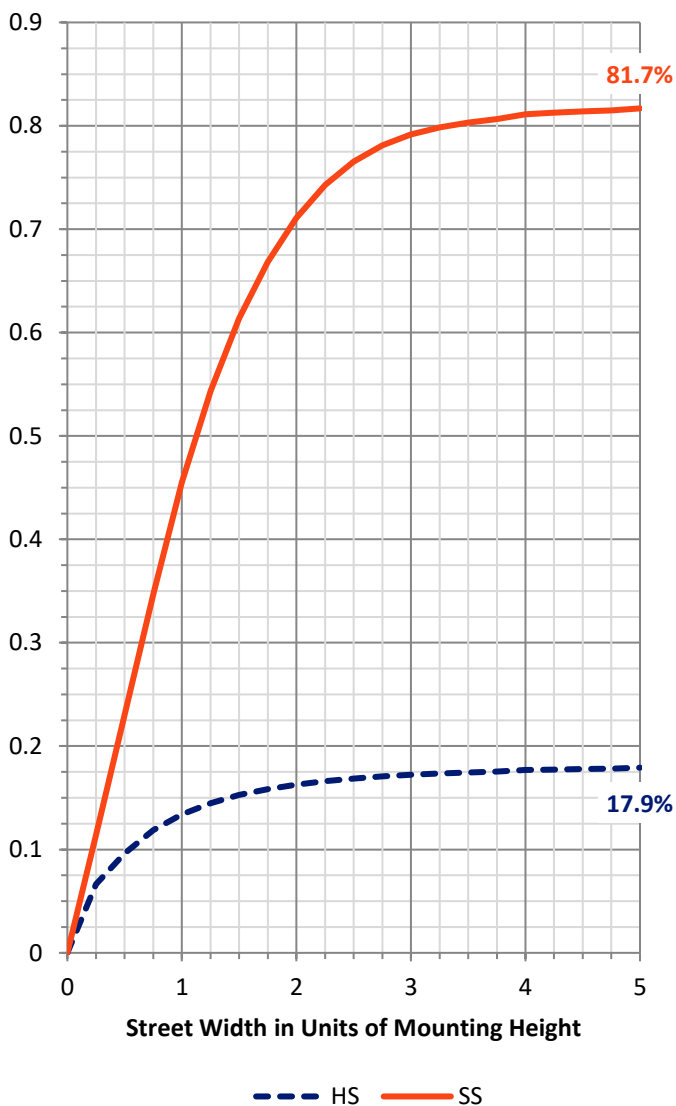
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.1	0.0	1029.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4671.1	0.0	4671.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	5700.2	0.0	5700.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.6
10°-20°	239.3	4.2
20°-30°	398.5	7.0
30°-40°	589.2	10.3
40°-50°	829.9	14.6
50°-60°	1111.3	19.5
60°-70°	1400.7	24.6
70°-80°	956.7	16.8
80°-90°	84.1	1.5
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°	5700.2	100.0
0°-180°	5700.2	100.0

Coefficient of Utilization

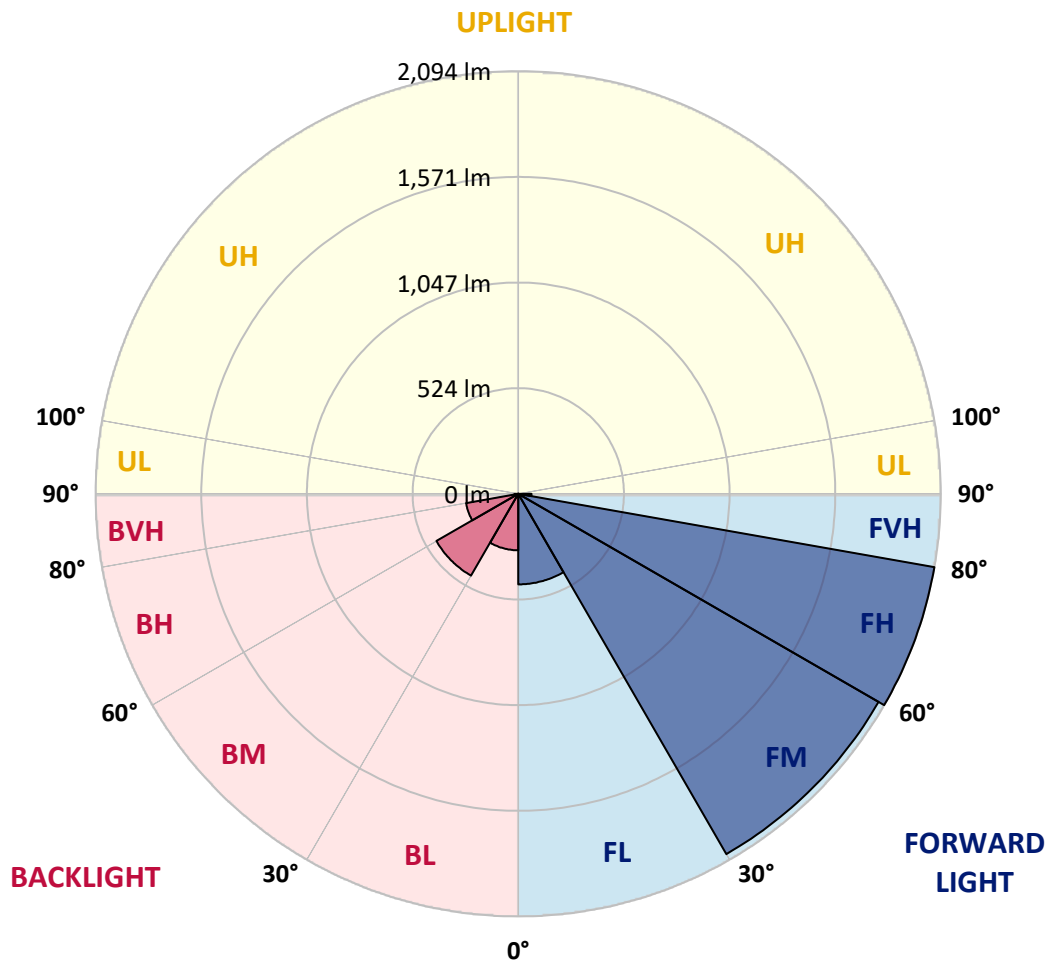


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.7	7.9			
FM (30°-60°)	2062.1	36.2			
FH (60°-80°)	2094.5	36.7			G2/5000
FVH (80°-90°)	65.8	1.2			G1/100
BL (0°-30°)	279.7	4.9	B1/500		
BM (30°-60°)	468.2	8.2	B1/1000		
BH (60°-80°)	262.8	4.6	B1/500		G1/500
BVH (80°-90°)	18.4	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	982.5	987.1	988.4	991.4	997.9	1003.2	1008.3	1007.8	1015.2	1018.2	1021.0
5°	938.8	940.1	944.6	950.8	962.2	976.6	990.8	991.1	1009.3	1023.8	1030.9
7.5°	906.8	910.8	913.8	920.3	932.3	948.1	970.5	972.3	1004.7	1033.3	1048.4
10°	885.8	890.4	893.9	901.9	913.8	931.4	955.7	959.1	1001.3	1048.4	1074.9
12.5°	866.8	871.4	874.5	884.9	900.6	922.1	949.5	953.6	1002.6	1066.0	1103.9
15°	878.4	882.1	880.9	884.0	894.5	919.1	952.0	956.0	1007.2	1082.9	1132.5
17.5°	930.5	933.6	923.4	911.7	906.8	925.0	959.7	964.0	1016.4	1100.4	1161.7
20°	1007.2	1015.5	993.3	967.2	943.4	945.9	975.8	980.4	1029.3	1118.0	1191.6
22.5°	1106.9	1113.0	1085.9	1042.9	999.2	976.6	999.7	1002.6	1048.8	1140.8	1224.2
25°	1224.2	1227.9	1190.4	1135.0	1071.8	1029.3	1032.7	1037.6	1080.8	1166.7	1253.2
27.5°	1338.1	1349.8	1306.4	1238.7	1155.6	1084.8	1078.0	1081.1	1115.5	1181.2	1273.2
30°	1473.3	1472.4	1426.5	1348.0	1241.4	1145.1	1120.8	1120.2	1134.3	1188.2	1287.6
32.5°	1581.1	1593.7	1548.8	1463.2	1339.7	1207.6	1150.3	1149.1	1148.8	1200.5	1309.2
35°	1703.7	1705.5	1664.2	1578.0	1445.9	1286.1	1191.6	1185.5	1178.3	1227.0	1338.5
37.5°	1813.3	1821.9	1784.0	1687.3	1550.3	1367.7	1248.3	1244.3	1222.7	1272.8	1385.3
40°	1898.9	1905.3	1882.5	1790.5	1653.1	1455.8	1320.3	1312.9	1286.7	1348.0	1447.8
42.5°	1926.9	1940.1	1949.0	1903.8	1771.4	1560.1	1408.9	1399.8	1379.7	1461.9	1519.8
45°	1929.0	1950.0	1997.0	1999.2	1890.2	1685.2	1512.4	1505.9	1504.5	1607.9	1621.1
47.5°	1912.7	1933.9	2013.1	2055.8	1996.2	1811.4	1661.8	1651.6	1652.5	1788.3	1734.7
50°	1873.3	1898.5	1994.6	2092.2	2078.9	1942.5	1819.4	1816.0	1835.1	1994.3	1852.7
52.5°	1799.1	1829.6	1975.5	2115.0	2140.6	2055.5	1998.6	1989.1	2037.4	2217.8	1981.7
55°	1593.7	1639.6	1905.6	2127.6	2199.1	2163.7	2160.0	2177.2	2241.3	2461.7	2123.7
57.5°	1486.5	1521.1	1753.8	2129.8	2273.0	2289.3	2348.4	2352.7	2464.8	2720.6	2284.0
60°	1428.0	1458.6	1670.7	2115.6	2376.1	2444.8	2541.1	2556.5	2683.1	3001.2	2450.3
62.5°	1377.0	1403.1	1620.8	2066.7	2492.4	2675.4	2790.8	2798.2	2930.9	3310.9	2614.4
65°	1256.6	1286.4	1520.4	2017.7	2592.8	2963.6	3122.1	3113.5	3194.8	3578.2	2717.2
67.5°	1094.3	1132.1	1332.9	1848.7	2642.5	3278.6	3495.3	3484.6	3455.3	3753.4	2746.8
70°	887.1	907.4	1093.1	1556.4	2444.4	3443.9	3790.0	3778.6	3616.7	3776.4	2607.0
71°	763.3	795.0	951.7	1382.5	2279.7	3393.4	3827.9	3824.8	3616.9	3712.7	2501.7
72.5°	595.8	615.2	753.7	1071.2	1937.6	3106.5	3734.3	3746.0	3538.5	3535.6	2284.6
75°	376.9	385.5	472.9	630.5	1063.2	2200.0	3187.7	3219.5	3141.9	2894.0	1699.0
77.5°	218.9	230.0	283.3	371.6	459.4	1194.1	2281.0	2315.4	2183.0	1593.4	695.5
80°	127.5	139.8	186.6	215.9	210.9	443.1	1161.4	1220.2	945.2	402.5	195.2
82.5°	70.8	79.2	131.2	131.5	112.4	144.7	365.5	382.4	269.7	162.2	79.7
85°	51.4	58.2	84.6	76.7	53.9	62.2	127.2	133.3	109.0	68.4	25.8
87.5°	18.2	25.8	46.5	37.0	14.8	12.9	36.6	29.8	27.7	19.1	5.9
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°	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	1022.5	1023.1	1020.1	1014.5	1009.0	1001.9	993.9	987.8	985.0	984.7	984.4
5°	1033.6	1035.2	1023.5	1006.2	987.1	963.7	943.7	921.0	915.1	905.9	908.6
7.5°	1051.5	1050.6	1027.5	990.8	946.2	896.6	854.7	830.4	805.2	798.1	798.4
10°	1077.0	1071.2	1027.5	959.4	884.9	811.3	752.9	715.9	695.9	679.3	673.1
12.5°	1104.1	1089.4	1017.6	915.4	806.1	715.9	653.1	603.2	590.2	576.7	577.0
15°	1130.0	1105.4	998.2	853.5	721.1	614.0	553.0	523.1	519.1	520.7	520.4
17.5°	1153.4	1116.8	968.6	784.6	621.9	526.5	494.2	496.3	507.1	514.8	515.8
20°	1177.1	1123.5	924.6	692.2	528.4	473.6	474.8	491.7	508.0	518.5	520.1
22.5°	1199.6	1126.7	872.9	602.9	460.6	451.1	469.3	487.4	503.4	513.6	515.1
25°	1214.4	1119.5	799.6	509.6	427.4	443.1	462.1	477.6	491.1	501.6	504.0
27.5°	1218.3	1096.7	708.8	434.2	412.0	435.3	453.0	464.3	474.8	484.7	486.5
30°	1216.2	1063.2	609.0	389.8	403.0	426.4	440.0	448.3	461.0	468.6	470.2
32.5°	1212.9	1024.1	505.0	366.1	395.6	418.1	426.1	433.5	433.2	430.2	432.3
35°	1214.0	977.3	420.6	352.0	389.2	412.0	418.7	409.5	383.0	381.8	380.5
37.5°	1220.5	931.1	359.3	342.1	385.8	411.1	414.8	372.2	348.8	338.1	335.3
40°	1237.1	877.2	319.0	334.7	385.5	418.1	396.6	353.4	308.5	287.6	286.0
42.5°	1259.3	824.3	294.3	330.0	389.2	428.9	389.2	327.0	278.0	265.8	263.9
45°	1292.3	763.6	280.8	327.9	394.7	432.9	386.7	307.6	265.8	255.9	255.9
47.5°	1329.5	705.7	273.4	326.4	401.8	430.2	364.9	301.5	259.9	261.1	266.9
50°	1366.5	655.5	267.9	323.0	407.9	428.6	356.0	301.1	261.4	277.1	287.6
52.5°	1409.2	620.1	261.1	317.4	407.9	418.7	353.1	307.2	265.8	270.4	275.0
55°	1461.0	609.0	252.5	305.4	400.6	394.1	351.6	316.3	268.8	258.0	259.9
57.5°	1529.4	626.9	244.1	290.3	383.7	368.6	351.0	318.7	261.8	252.8	251.0
60°	1608.8	662.3	241.7	275.0	360.6	346.7	347.3	311.6	251.9	242.7	244.1
62.5°	1664.5	683.6	240.1	263.2	335.3	322.7	338.4	302.9	247.6	239.5	241.1
65°	1664.5	657.7	226.0	245.4	302.7	293.7	327.6	292.2	242.0	232.8	231.2
67.5°	1601.4	582.2	204.4	218.6	266.6	260.8	312.5	279.3	233.7	226.6	222.9
70°	1437.0	441.5	177.3	187.2	221.0	226.3	293.2	261.8	219.9	211.3	205.7
71°	1364.6	384.6	166.0	171.2	203.5	211.3	283.9	254.3	213.7	201.4	191.5
72.5°	1225.2	323.9	148.7	150.9	174.0	187.8	264.5	240.1	202.0	184.4	173.4
75°	930.8	236.5	119.8	118.5	128.7	149.0	223.9	214.0	177.0	153.3	146.9
77.5°	402.1	128.7	89.6	90.5	87.5	113.0	176.1	183.8	151.8	124.7	118.9
80°	121.9	74.2	61.3	62.5	58.5	75.7	124.1	144.1	121.9	97.0	88.9
82.5°	62.5	44.3	41.9	41.3	37.3	42.8	75.1	98.5	87.1	60.7	53.6
85°	27.1	23.7	20.6	20.0	17.5	15.4	26.8	49.3	46.2	33.9	32.3
87.5°	6.8	6.2	4.0	3.7	2.2	0.3	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)