

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: P450709

Luminaire Tested: **GALN-SA1C-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450709
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-SA1C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

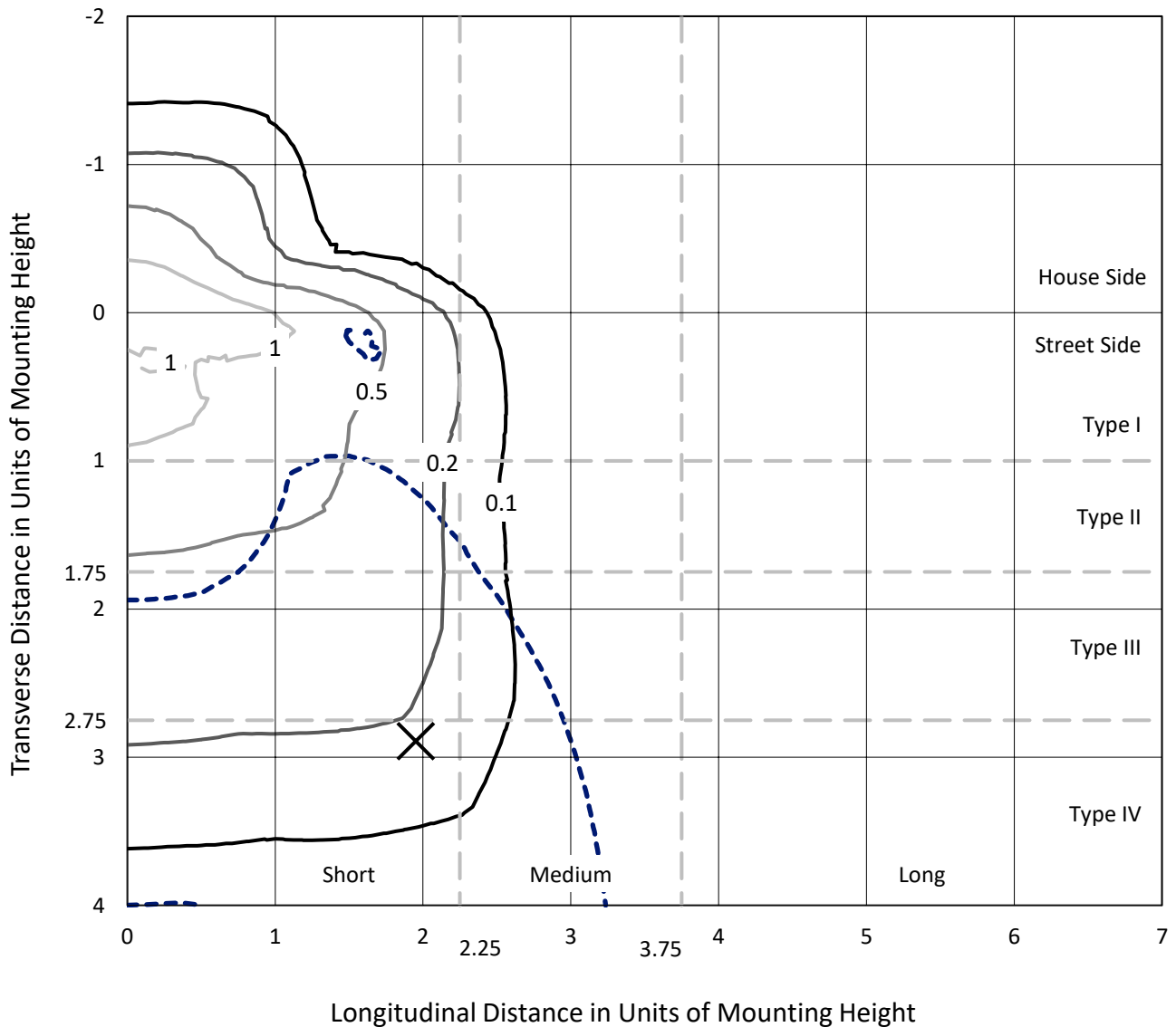
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

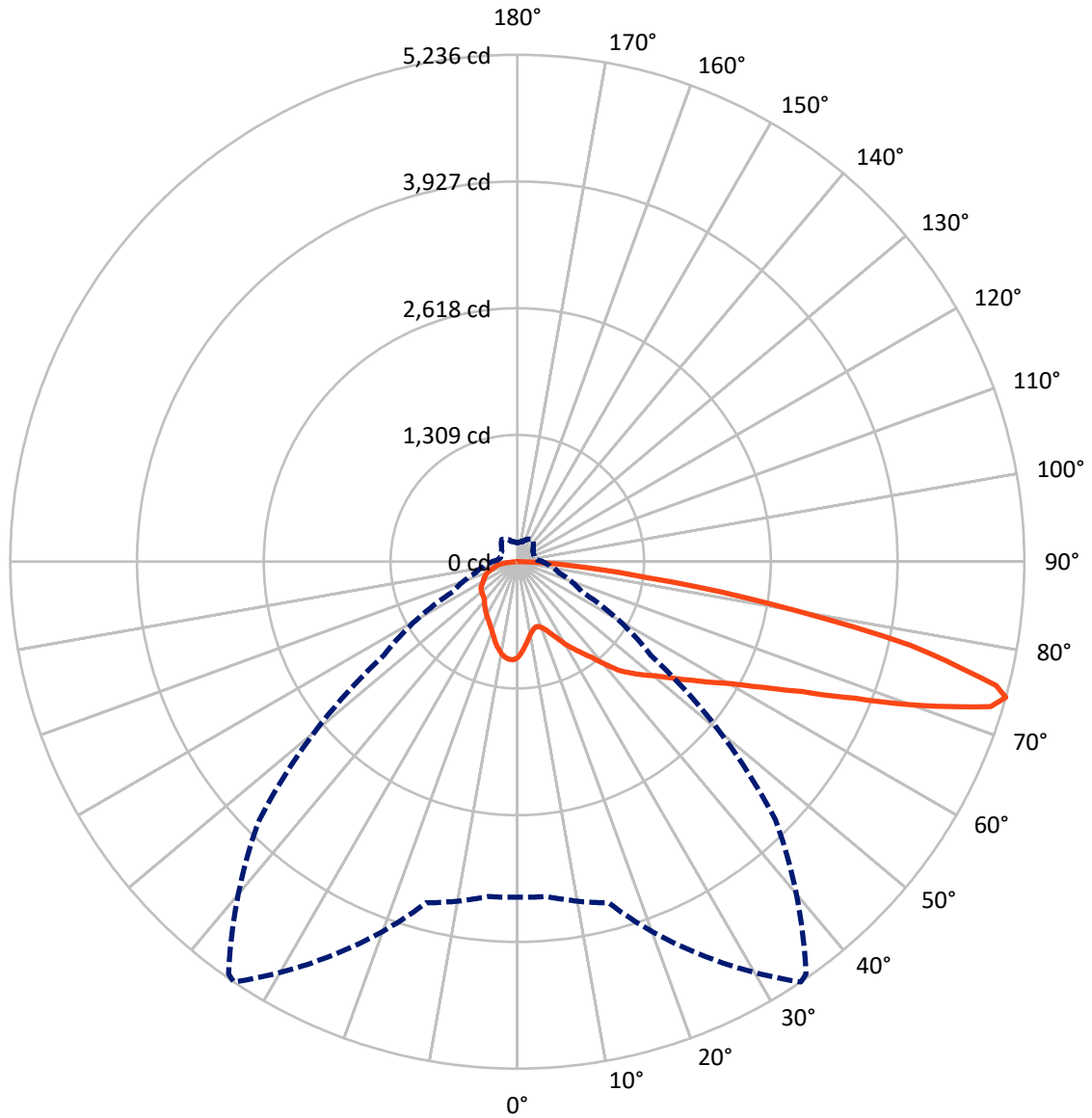
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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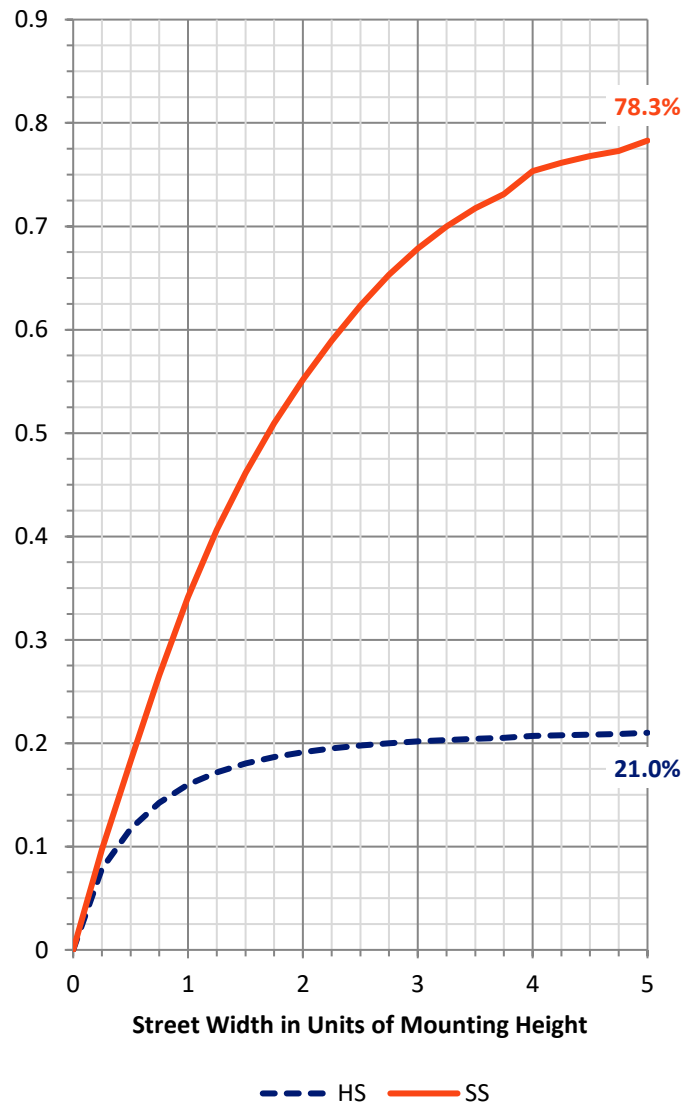
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.6	0.0	1375.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5088.4	0.0	5088.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	6464.0	0.0	6464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.4
10°-20°	245.7	3.8
20°-30°	405.1	6.3
30°-40°	606.8	9.4
40°-50°	882.1	13.6
50°-60°	1232.1	19.1
60°-70°	1542.5	23.9
70°-80°	1275.6	19.7
80°-90°	184.3	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°	6464.0	100.0
0°-180°	6464.0	100.0



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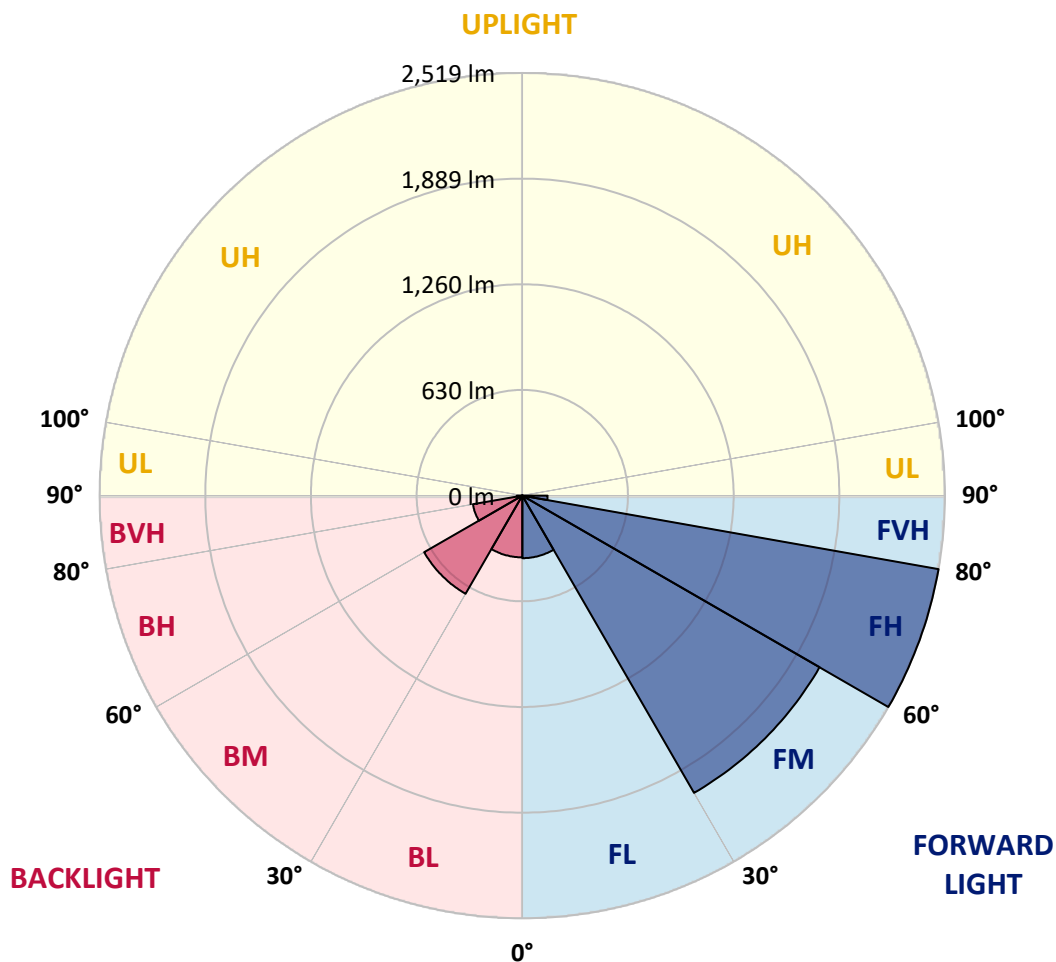
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.6	5.8			
FM	(30°-60°)	2045.5	31.6			
FH	(60°-80°)	2519.3	39.0			G2/5000
FVH	(80°-90°)	151.0	2.3			G2/225
BL	(0°-30°)	367.9	5.7	B1/500		
BM	(30°-60°)	675.6	10.5	B1/1000		
BH	(60°-80°)	298.8	4.6	B1/500		G1/500
BVH	(80°-90°)	33.3	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9
2.5°	912.1	916.7	919.2	928.2	930.3	933.2	940.7	950.8	963.6	975.1	985.1
5°	836.2	843.3	847.6	855.5	870.9	872.3	892.4	915.3	941.4	965.8	985.9
7.5°	764.2	772.1	775.6	790.0	810.4	813.6	843.0	879.1	922.8	959.7	990.5
10°	710.1	714.1	721.9	732.7	757.0	759.2	797.5	845.8	902.4	956.8	998.4
12.5°	680.7	682.9	684.7	696.1	720.1	723.4	763.5	818.3	886.3	959.0	1011.3
15°	685.0	685.8	677.9	680.0	699.4	704.0	743.8	800.0	876.3	964.4	1030.6
17.5°	721.2	718.7	699.4	689.3	703.0	705.1	739.8	792.8	871.6	974.4	1050.7
20°	778.2	774.6	741.3	719.1	726.9	728.7	752.7	798.2	876.3	990.9	1081.8
22.5°	849.1	847.6	797.1	770.3	769.9	769.9	782.4	817.5	890.2	1013.4	1114.4
25°	948.3	940.7	874.8	840.1	830.4	829.7	828.3	849.4	908.1	1037.4	1153.1
27.5°	1050.0	1037.1	978.3	925.0	904.2	901.7	892.4	894.5	931.1	1064.6	1197.1
30°	1141.3	1133.0	1077.9	1018.8	994.1	988.4	962.6	950.8	969.4	1113.7	1267.3
32.5°	1211.1	1206.1	1163.1	1109.4	1072.9	1071.8	1034.2	1024.5	1029.2	1173.1	1347.5
35°	1267.7	1269.5	1247.6	1201.1	1159.2	1153.1	1128.0	1115.8	1102.2	1259.1	1448.5
37.5°	1345.0	1349.0	1347.5	1307.4	1256.2	1257.6	1251.9	1231.9	1195.7	1355.1	1560.6
40°	1430.3	1433.1	1432.8	1417.4	1390.5	1391.9	1389.8	1366.9	1312.8	1477.2	1685.2
42.5°	1548.1	1534.5	1499.0	1514.4	1530.2	1537.0	1551.6	1529.8	1455.7	1607.5	1802.3
45°	1679.8	1654.1	1573.9	1581.0	1639.4	1652.3	1733.2	1703.1	1610.7	1757.2	1940.2
47.5°	1762.9	1737.5	1669.8	1668.4	1745.7	1758.3	1901.5	1890.4	1751.8	1918.7	2108.5
50°	1837.1	1833.5	1757.2	1775.5	1851.0	1869.6	2084.9	2074.5	1892.6	2109.2	2291.8
52.5°	1947.0	1918.0	1857.1	1894.7	1994.6	2019.0	2266.8	2236.3	2021.8	2277.5	2469.8
55°	1996.4	1989.6	1986.0	2018.6	2155.8	2173.3	2443.7	2373.8	2132.1	2420.0	2605.2
57.5°	2128.5	2116.0	2151.5	2173.7	2345.6	2372.4	2628.5	2517.4	2228.8	2533.2	2671.1
60°	2299.7	2292.9	2325.5	2365.6	2557.6	2598.4	2839.0	2639.9	2306.5	2590.1	2634.9
62.5°	2555.4	2554.7	2548.6	2634.5	2858.0	2895.6	3080.7	2759.2	2318.7	2547.5	2448.0
65°	2922.1	2909.2	2856.2	2950.0	3231.9	3275.9	3332.5	2825.8	2245.3	2328.7	2061.2
67.5°	3305.6	3304.9	3261.9	3383.7	3768.6	3814.1	3647.3	2811.1	2041.5	1886.5	1463.9
70°	3623.6	3608.2	3663.0	3987.4	4454.4	4507.1	3922.6	2638.1	1626.1	1245.8	869.8
72.5°	3699.9	3700.6	3814.5	4453.0	5113.0	5121.2	4021.8	2138.2	1088.3	687.2	435.1
74°	3465.0	3471.1	3647.6	4476.3	5235.8	5198.5	3768.3	1680.6	735.9	448.7	313.7
75°	3162.7	3124.4	3379.8	4321.2	5108.3	5068.2	3471.4	1348.6	561.5	358.5	274.7
77.5°	1691.0	1730.0	2123.9	3224.7	4150.0	4103.8	2353.8	646.7	303.3	249.6	197.7
80°	602.0	663.9	933.2	1687.4	2660.7	2675.0	1123.4	296.5	213.4	184.1	139.7
82.5°	245.7	252.5	400.7	748.8	1351.1	1364.0	458.7	176.2	152.6	126.8	83.4
85°	96.0	98.8	177.3	336.6	576.5	614.1	158.6	93.1	93.8	72.7	42.6
87.5°	32.2	36.5	72.7	112.1	195.9	191.9	46.2	27.6	33.7	31.5	13.2
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°	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9	986.9
2.5°	990.1	997.0	1001.6	1006.6	1011.3	1012.7	1011.6	1014.9	1015.2	1015.6	1015.9
5°	995.9	1005.2	1014.1	1019.2	1021.3	1019.5	1013.4	1010.2	1007.3	1005.2	1005.9
7.5°	1003.8	1017.0	1025.2	1027.4	1021.7	1013.4	998.4	986.6	979.0	974.0	973.7
10°	1015.9	1028.8	1035.6	1029.5	1013.8	993.7	970.1	947.9	931.1	926.0	925.7
12.5°	1031.3	1046.0	1045.7	1027.7	1000.2	964.4	926.0	900.3	877.3	865.9	870.5
15°	1051.4	1062.5	1052.1	1019.9	976.2	927.1	879.9	844.8	819.0	806.8	807.5
17.5°	1074.7	1084.3	1056.8	1005.9	942.5	879.5	824.7	791.4	771.0	762.0	761.3
20°	1103.7	1106.5	1056.8	981.6	899.2	824.0	771.7	748.4	737.0	732.3	733.7
22.5°	1134.8	1129.1	1051.0	947.2	842.3	766.0	730.9	720.5	714.8	714.1	714.8
25°	1169.9	1153.8	1039.2	900.6	782.8	715.8	695.4	697.2	698.3	698.3	700.8
27.5°	1212.9	1180.7	1019.5	841.9	713.3	669.3	663.6	676.1	681.8	682.9	684.7
30°	1269.5	1210.0	986.9	768.5	654.2	627.4	637.4	654.2	660.7	664.6	663.9
32.5°	1336.8	1242.3	942.9	695.1	606.6	598.0	610.2	627.4	634.6	636.7	633.8
35°	1415.9	1278.8	884.9	626.3	565.1	570.1	584.4	589.8	596.2	596.2	597.7
37.5°	1501.2	1308.1	814.0	563.3	532.9	551.1	561.5	556.5	553.6	550.0	551.8
40°	1587.8	1330.0	721.9	501.0	500.6	531.4	534.3	520.0	508.5	504.9	503.1
42.5°	1663.4	1343.6	638.9	452.6	470.2	512.1	514.2	491.3	473.1	462.3	458.7
45°	1752.5	1359.3	557.6	412.5	441.9	496.7	502.1	471.3	444.4	421.8	416.1
47.5°	1874.7	1395.2	493.5	381.4	421.5	487.0	494.5	454.8	419.3	390.0	385.3
50°	2012.5	1444.2	443.7	360.2	405.7	478.4	487.7	438.0	396.1	363.5	359.9
52.5°	2138.9	1470.7	400.7	341.3	390.3	462.7	478.8	425.8	373.1	337.0	333.7
55°	2208.0	1427.7	358.5	322.6	369.2	442.3	466.2	409.0	350.9	323.0	318.4
57.5°	2217.4	1338.9	320.1	302.6	347.0	417.2	443.0	388.5	336.6	313.3	309.4
60°	2145.4	1206.4	290.4	286.1	324.4	388.9	416.8	370.6	321.9	302.6	298.7
62.5°	1966.3	1062.5	269.6	271.1	301.5	359.2	397.5	353.4	308.0	290.8	287.2
65°	1658.4	877.0	249.6	255.7	281.1	335.9	379.9	339.1	294.0	281.8	278.6
67.5°	1152.0	633.1	233.1	239.6	261.8	312.3	359.5	323.7	278.2	271.8	266.8
70°	637.8	389.6	213.8	221.3	241.7	285.8	336.6	300.4	255.3	252.5	245.3
72.5°	335.2	248.2	191.9	200.2	214.5	251.7	301.5	275.0	232.8	220.6	211.3
74°	261.8	203.4	177.3	185.9	195.5	231.7	280.8	256.8	216.7	202.3	195.2
75°	228.1	181.2	164.7	175.8	184.4	218.1	264.6	243.9	207.7	194.1	187.6
77.5°	161.1	135.7	134.6	147.9	152.6	191.2	238.5	222.0	185.1	170.8	164.7
80°	113.2	101.7	106.7	115.0	121.4	169.0	221.3	191.9	151.8	135.0	132.9
82.5°	73.8	66.6	76.3	83.8	85.9	124.6	178.7	145.7	110.7	89.9	83.4
85°	34.0	33.3	43.7	42.6	42.3	60.9	106.0	85.2	63.7	47.6	44.8
87.5°	8.6	8.2	10.7	9.0	10.7	9.3	9.7	2.5	0.4	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)