

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: P648340

Luminaire Tested: **GALN-SA3B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13376 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

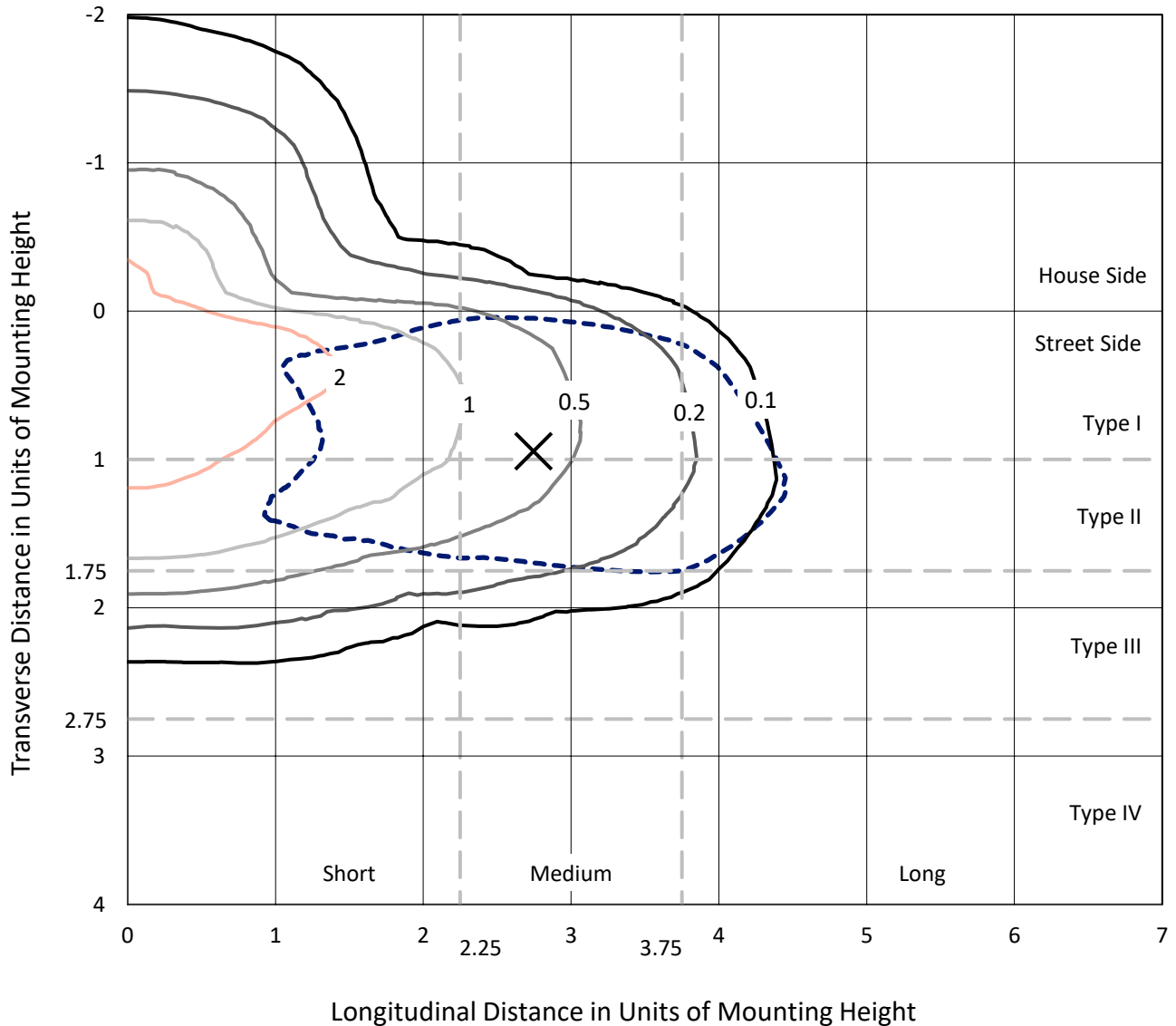
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

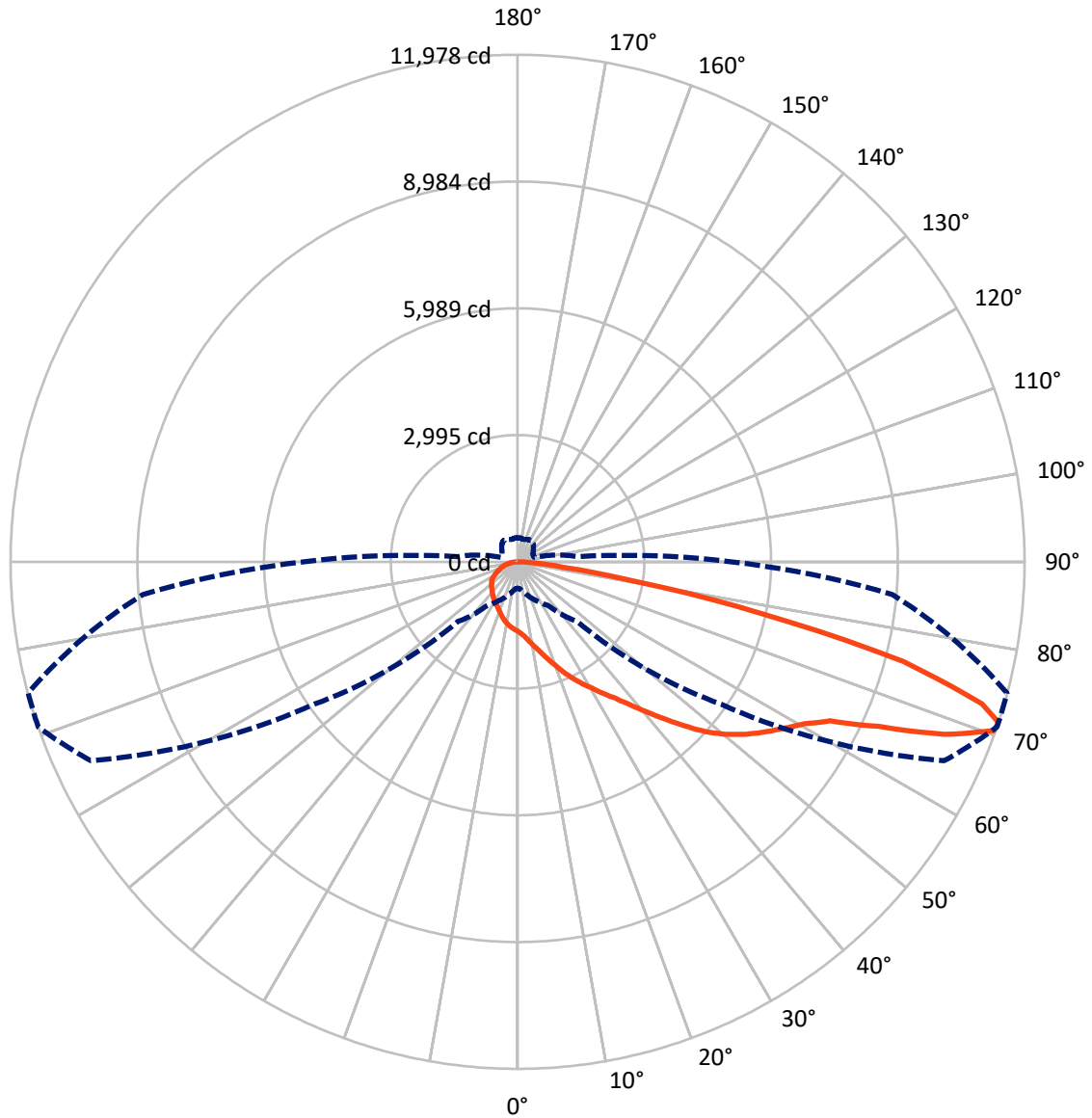
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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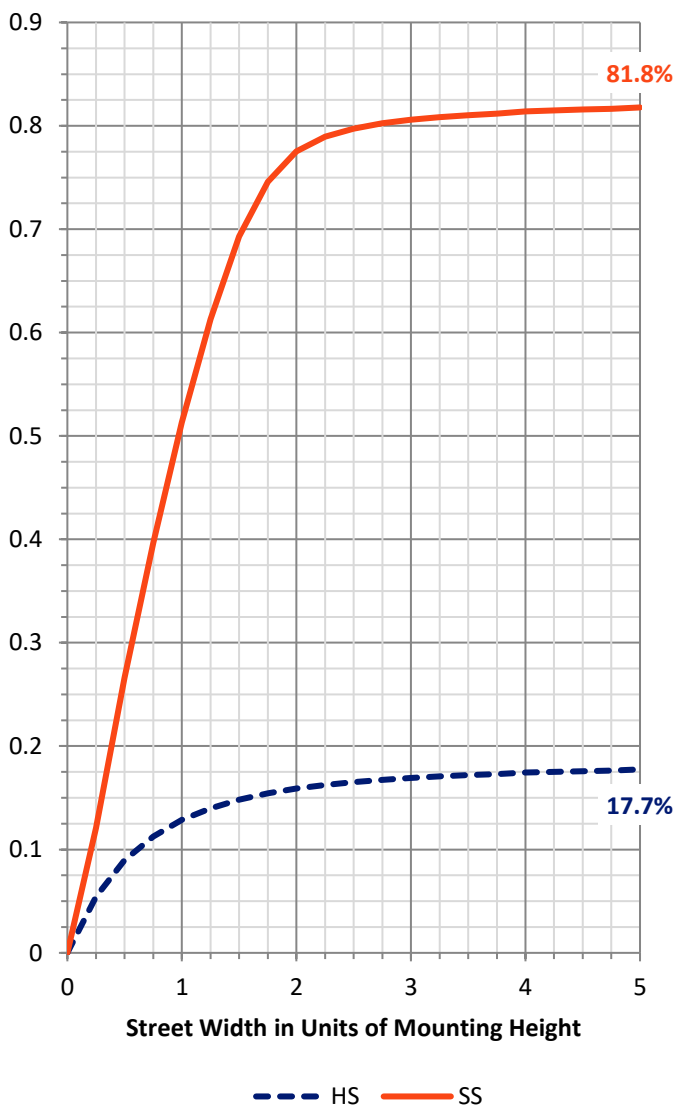
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.6	0.0	2405.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10970.4	0.0	10970.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	13376.0	0.0	13376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.2
10°-20°	535.5	4.0
20°-30°	935.9	7.0
30°-40°	1392.0	10.4
40°-50°	2050.9	15.3
50°-60°	2871.3	21.5
60°-70°	3211.5	24.0
70°-80°	1961.7	14.7
80°-90°	252.3	1.9
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°	13376.0	100.0
0°-180°	13376.0	100.0

Coefficient of Utilization

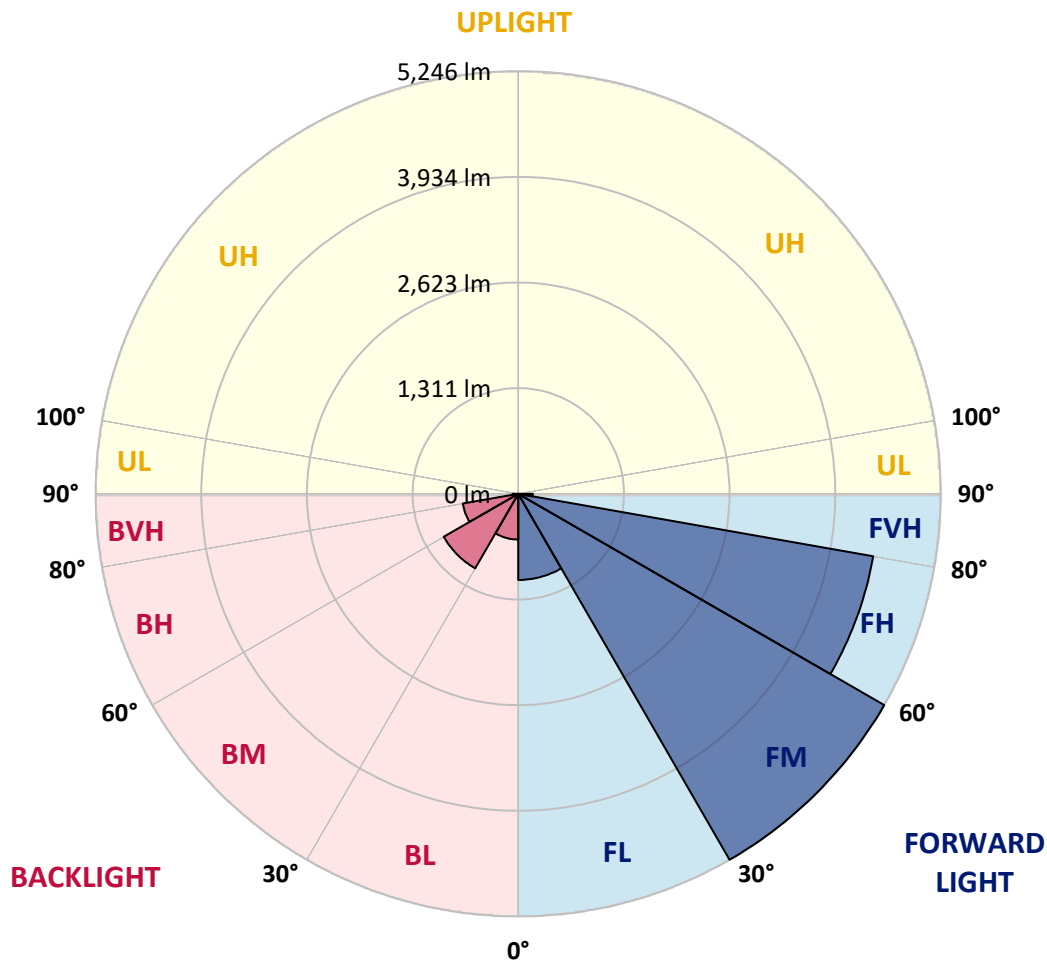


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.7	8.0			
FM (30°-60°)	5245.8	39.2			
FH (60°-80°)	4474.2	33.4			G2/5000
FVH (80°-90°)	181.6	1.4			G2/225
BL (0°-30°)	567.5	4.2	B2/1000		
BM (30°-60°)	1068.4	8.0	B2/2500		
BH (60°-80°)	698.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	70.8	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1822.5	1813.7	1814.4	1801.9	1785.7	1768.1	1743.1	1721.0	1703.4	1693.1	1662.9
5°	2019.5	2010.7	1999.7	1972.5	1960.7	1917.3	1862.2	1812.2	1774.0	1752.7	1692.4
7.5°	2179.0	2176.8	2173.9	2158.5	2128.4	2068.1	2021.0	1934.2	1877.6	1837.2	1734.3
10°	2277.6	2281.3	2283.5	2286.4	2273.9	2242.3	2177.6	2068.1	1996.0	1944.5	1788.7
12.5°	2327.5	2331.2	2343.8	2370.9	2387.8	2384.2	2331.2	2223.9	2124.7	2057.0	1846.8
15°	2358.4	2364.3	2386.3	2422.4	2479.0	2515.0	2489.3	2390.0	2281.3	2201.1	1915.8
17.5°	2392.2	2398.9	2423.2	2474.6	2548.8	2626.7	2654.7	2569.4	2451.0	2355.5	1993.0
20°	2411.3	2420.2	2454.7	2522.4	2609.1	2722.3	2815.0	2770.1	2640.7	2534.9	2082.0
22.5°	2442.3	2449.6	2479.0	2551.0	2654.7	2796.6	2975.2	2965.7	2851.8	2715.0	2179.8
25°	2526.0	2537.8	2552.5	2595.9	2695.9	2872.3	3108.3	3174.4	3056.1	2903.2	2269.4
27.5°	2684.1	2693.7	2693.0	2698.8	2755.5	2937.7	3223.8	3381.1	3259.0	3093.6	2356.2
30°	2864.2	2867.9	2870.9	2857.6	2870.1	3004.7	3329.6	3585.4	3463.4	3289.1	2431.9
32.5°	3083.3	3090.7	3065.7	3031.9	3021.5	3103.9	3417.1	3789.8	3705.2	3487.6	2506.9
35°	3342.1	3361.2	3310.4	3250.9	3209.0	3246.6	3534.7	3998.6	3953.1	3741.3	2606.2
37.5°	3637.7	3661.2	3614.1	3497.2	3437.7	3447.9	3688.3	4256.6	4266.2	4030.2	2754.0
40°	3879.5	3910.4	3911.9	3746.4	3656.0	3667.8	3883.2	4534.5	4644.1	4387.5	2928.2
42.5°	4039.0	4069.2	4100.8	4003.7	3908.9	3975.8	4110.4	4836.0	5069.0	4821.2	3171.5
45°	4214.0	4241.2	4258.8	4214.7	4161.8	4335.3	4384.6	5156.5	5521.9	5305.8	3437.7
47.5°	4416.9	4447.0	4464.0	4422.1	4402.2	4650.7	4680.1	5455.7	6005.6	5776.3	3731.7
50°	4687.4	4710.2	4701.4	4675.0	4670.5	4892.6	4963.9	5735.8	6404.8	6282.8	4036.8
52.5°	5024.2	5051.4	5060.9	5023.4	5006.5	5065.3	5192.5	5990.9	6768.0	6718.0	4362.5
55°	5227.8	5271.2	5416.7	5475.6	5516.0	5288.9	5438.8	6272.5	7093.7	7176.7	4712.5
57.5°	4966.8	5022.7	5348.4	5642.5	6022.5	5847.5	5788.0	6566.6	7419.3	7621.6	5131.5
60°	4330.1	4342.7	4762.4	5304.3	6068.9	6565.8	6516.6	7034.2	7772.2	8070.0	5683.6
62.5°	3003.9	3030.4	3526.6	4391.2	5496.9	6824.6	7756.1	7841.4	8278.0	8741.2	6493.0
65°	1549.0	1514.5	1966.6	2759.8	4144.2	6210.0	8760.3	9325.7	9374.9	9791.0	7632.5
67.5°	953.5	969.0	1180.7	1611.5	2450.3	4513.2	8655.2	11139.3	10879.8	11079.8	8690.4
70°	716.1	735.2	880.7	1102.8	1493.9	2580.5	6960.6	11578.9	11941.4	11889.9	9012.5
71°	622.7	642.5	794.0	1003.5	1254.9	1991.6	5864.4	11118.8	11978.2	11969.3	8891.2
72.5°	530.8	543.3	661.6	849.9	1057.9	1396.1	4405.9	9971.9	11467.2	11760.6	8458.1
75°	416.9	426.4	479.4	648.4	833.0	857.2	2364.3	7475.9	9418.3	9977.0	7041.4
77.5°	339.7	346.2	373.5	481.5	642.5	607.2	1240.3	4866.1	5900.5	6462.9	4147.9
80°	269.8	277.2	293.3	326.4	481.5	433.0	591.8	2465.7	2850.3	2844.4	1655.6
82.5°	209.5	211.7	230.8	239.7	329.3	307.3	320.6	1044.0	1156.4	1194.6	597.7
85°	132.3	139.0	204.4	183.8	197.0	180.1	158.1	414.6	510.9	503.6	238.9
87.5°	40.4	42.7	69.1	77.9	87.5	78.7	58.1	122.1	149.2	161.8	59.6
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°	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1651.2	1643.1	1614.5	1590.9	1568.8	1544.6	1524.0	1518.2	1513.0	1510.8	1510.0
5°	1666.6	1642.3	1585.7	1539.5	1502.7	1468.9	1447.5	1438.0	1428.4	1428.4	1431.4
7.5°	1688.7	1644.6	1557.1	1488.0	1441.7	1410.0	1394.6	1393.1	1395.4	1397.6	1398.3
10°	1713.0	1643.1	1515.2	1429.2	1388.0	1373.3	1374.0	1386.5	1398.3	1407.1	1408.6
12.5°	1736.5	1634.3	1465.9	1374.0	1347.5	1350.5	1371.1	1399.1	1421.8	1434.3	1435.1
15°	1762.9	1620.3	1406.3	1321.9	1313.0	1335.8	1374.0	1416.7	1451.2	1471.8	1474.0
17.5°	1785.0	1596.8	1343.9	1271.1	1282.2	1324.1	1377.0	1432.1	1474.0	1499.8	1504.1
20°	1810.0	1566.6	1279.2	1222.6	1254.2	1310.8	1371.1	1430.6	1474.0	1499.1	1504.9
22.5°	1829.9	1524.0	1217.4	1182.9	1229.2	1294.6	1351.2	1399.1	1434.3	1447.5	1456.4
25°	1837.9	1470.3	1159.4	1150.5	1209.3	1268.1	1306.4	1333.6	1344.6	1343.2	1346.8
27.5°	1833.6	1408.6	1109.4	1124.8	1184.4	1227.0	1246.1	1243.9	1224.1	1205.7	1214.5
30°	1815.2	1335.1	1067.5	1098.3	1152.0	1175.5	1172.6	1144.0	1106.5	1071.8	1074.1
32.5°	1782.0	1255.7	1028.5	1068.2	1106.5	1116.7	1096.9	1059.4	1005.7	960.9	954.2
35°	1754.2	1180.0	993.9	1033.6	1060.9	1055.7	1036.6	988.1	939.5	899.8	893.2
37.5°	1749.7	1115.2	960.9	994.7	1010.1	1002.8	979.2	938.1	920.4	890.3	886.6
40°	1773.3	1069.7	927.1	953.5	960.9	955.0	929.3	905.7	921.9	914.5	914.5
42.5°	1837.2	1045.4	896.9	912.4	918.2	922.6	904.3	884.4	904.3	870.5	859.4
45°	1938.6	1046.2	869.7	871.9	889.6	905.0	892.5	863.1	852.8	785.2	772.0
47.5°	2087.9	1071.1	847.7	833.7	865.3	891.1	873.4	830.8	785.2	740.3	732.3
50°	2262.1	1116.0	827.8	794.0	833.0	873.4	860.1	810.2	763.1	735.9	730.8
52.5°	2455.5	1172.6	803.5	749.9	793.3	865.3	863.1	807.2	742.5	724.1	719.7
55°	2694.4	1228.4	773.4	698.4	757.9	858.7	855.0	782.9	738.1	724.9	723.4
57.5°	2972.3	1309.3	730.0	646.2	717.5	831.5	823.4	768.3	723.4	713.9	713.1
60°	3420.0	1435.1	668.3	598.4	676.4	783.7	794.0	743.2	699.8	697.7	696.9
62.5°	4008.9	1611.5	604.3	549.2	628.6	721.9	751.4	709.5	674.9	685.9	687.4
65°	4822.0	1760.0	538.2	507.3	575.7	662.4	710.9	677.8	646.9	668.3	668.3
67.5°	5352.0	1762.9	477.9	463.9	521.9	612.4	668.3	640.3	610.9	646.9	648.4
70°	5241.8	1544.6	427.8	418.3	469.8	558.7	621.2	599.2	565.3	597.7	585.9
71°	5063.9	1423.3	408.0	400.7	449.2	533.0	599.2	580.8	547.0	568.3	561.6
72.5°	4780.1	1235.8	375.7	377.2	418.3	500.7	568.3	549.2	515.4	527.1	524.9
75°	4040.5	1079.2	321.3	327.9	359.5	445.5	506.5	491.8	457.3	457.3	455.1
77.5°	2526.0	754.3	266.8	270.5	305.1	381.6	435.2	422.7	389.6	378.6	375.7
80°	942.5	389.6	208.8	213.2	234.5	300.7	360.3	348.4	314.7	302.2	290.4
82.5°	356.6	195.6	153.6	149.9	172.7	229.3	282.3	268.3	241.9	211.7	202.9
85°	134.5	97.0	94.1	91.1	101.5	136.0	175.0	172.0	144.1	122.8	120.6
87.5°	35.3	31.6	36.7	27.2	28.7	25.8	26.5	11.0	5.2	2.2	1.5
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)