

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: P651757

Luminaire Tested: **GALN-SA2A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651757
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-SA2A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7914.6 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

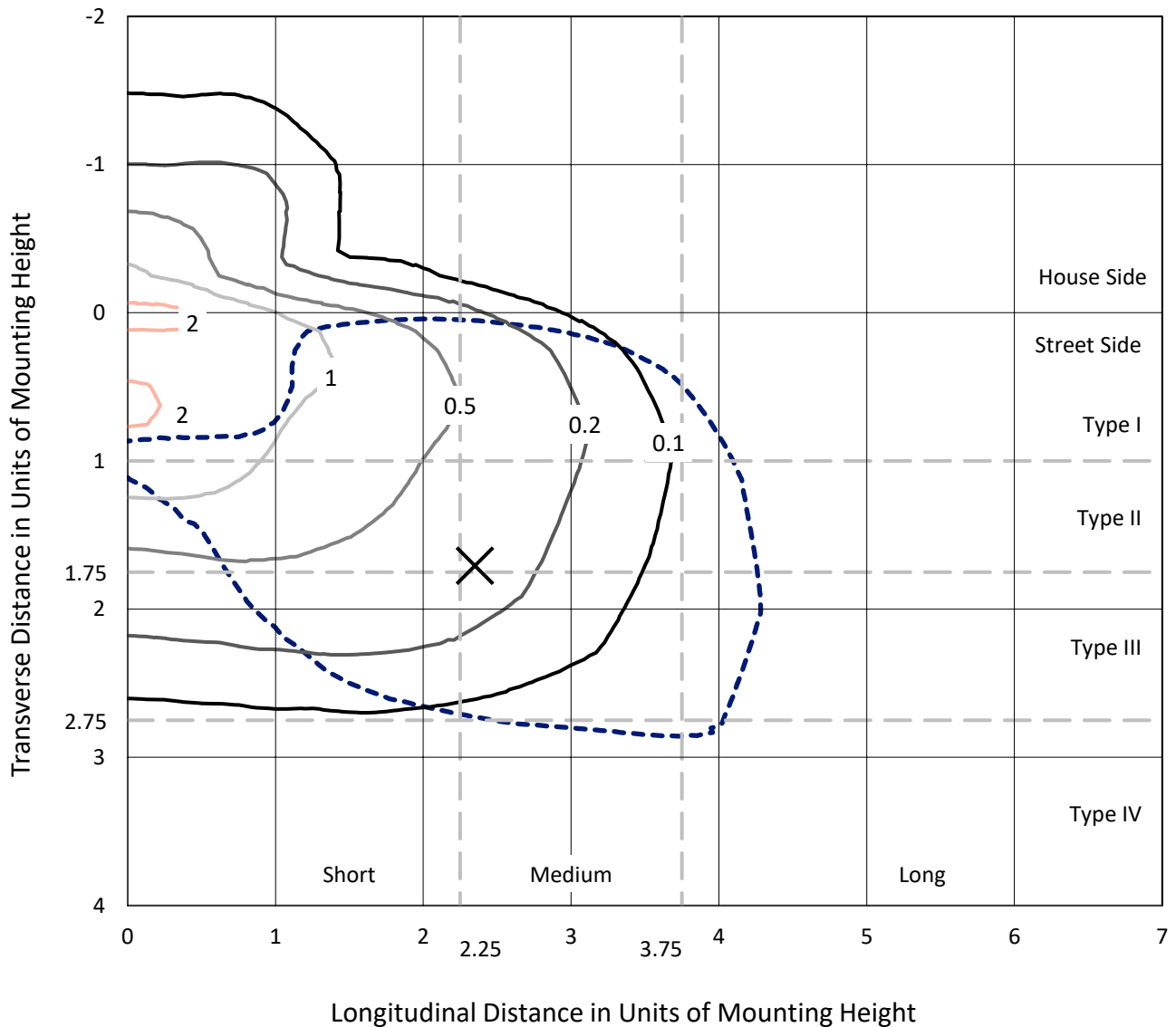
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

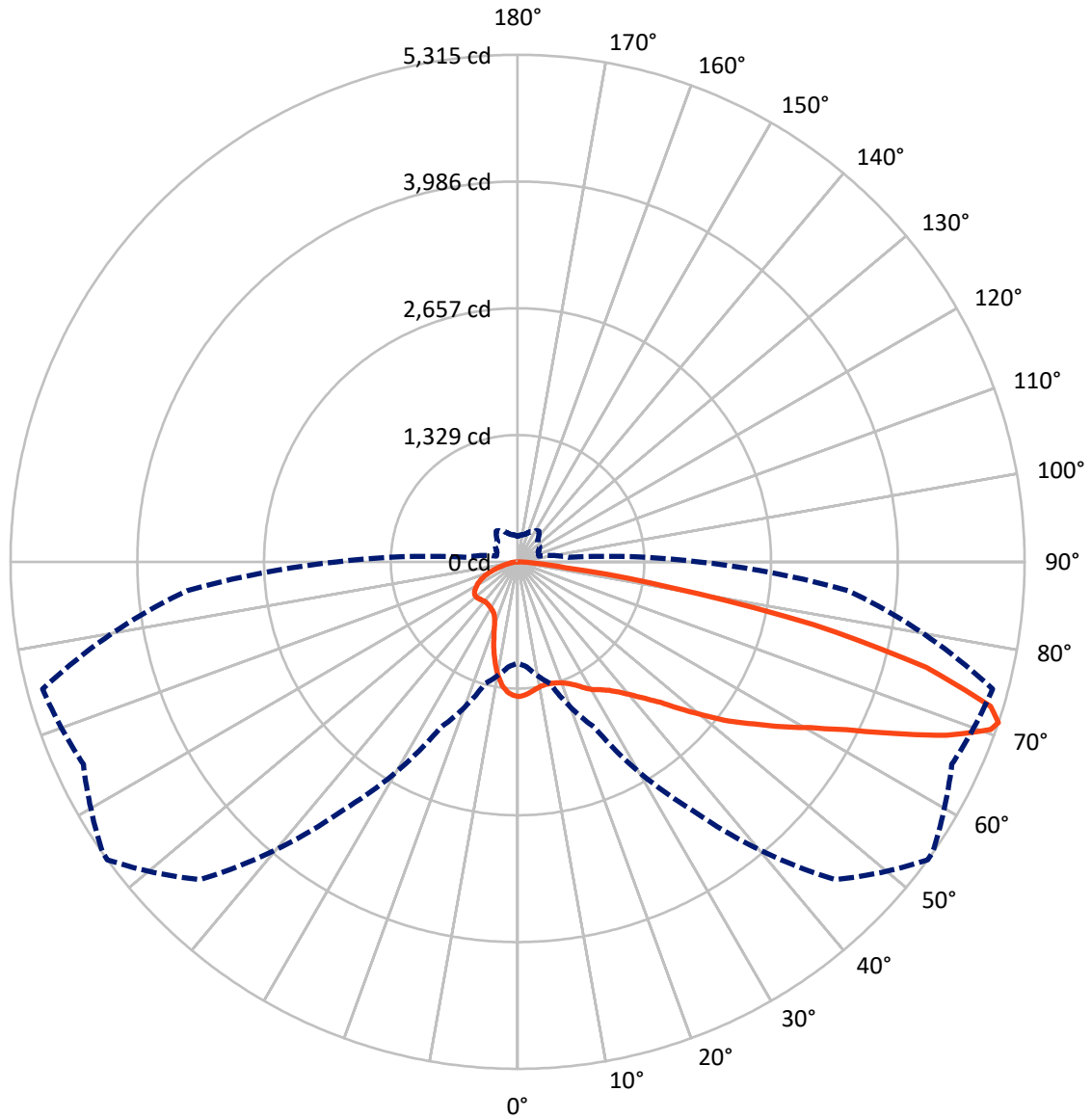
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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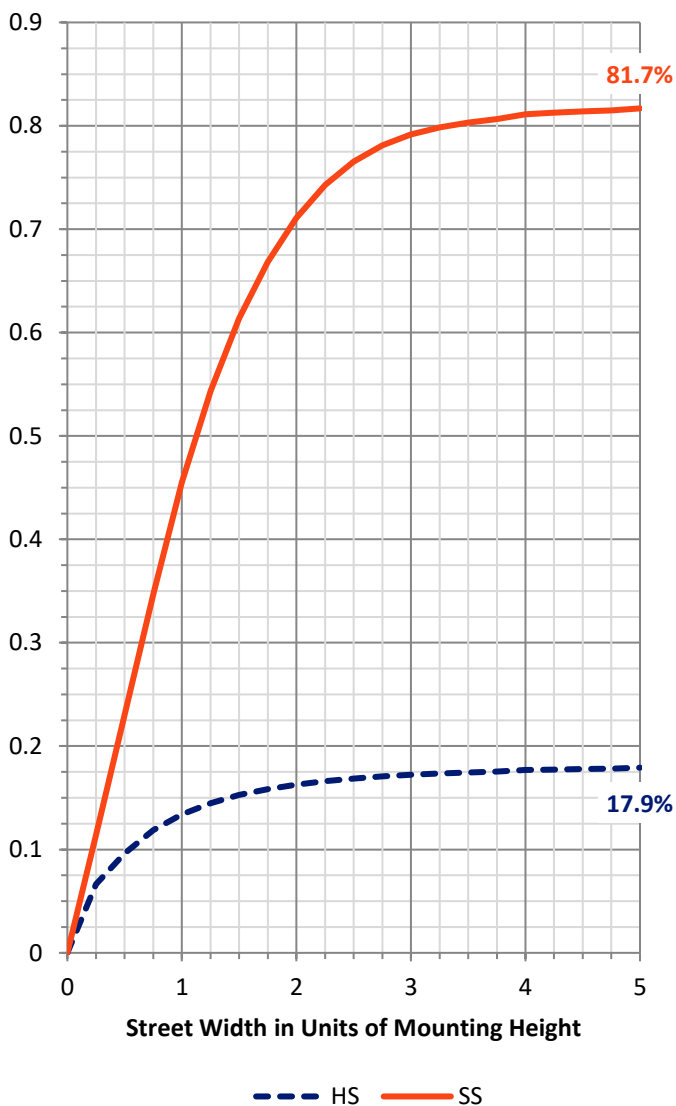
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1428.9	0.0	1428.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6485.7	0.0	6485.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	7914.6	0.0	7914.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	1.6
10°-20°	332.3	4.2
20°-30°	553.3	7.0
30°-40°	818.1	10.3
40°-50°	1152.3	14.6
50°-60°	1543.0	19.5
60°-70°	1944.8	24.6
70°-80°	1328.3	16.8
80°-90°	116.8	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°	7914.6	100.0
0°-180°	7914.6	100.0

Coefficient of Utilization

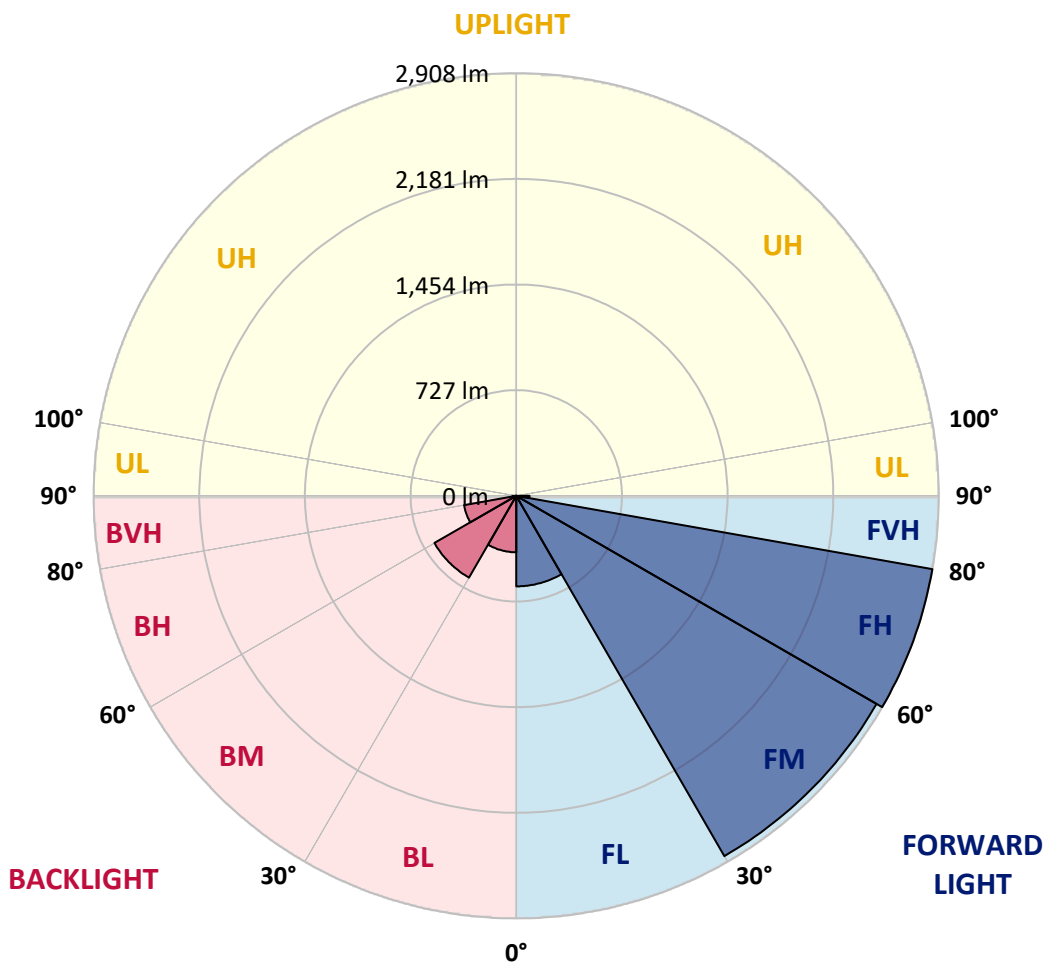


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.0	7.9			
FM (30°-60°)	2863.2	36.2			
FH (60°-80°)	2908.1	36.7			G2/5000
FVH (80°-90°)	91.3	1.2			G1/100
BL (0°-30°)	388.4	4.9	B1/500		
BM (30°-60°)	650.1	8.2	B1/1000		
BH (60°-80°)	365.0	4.6	B1/500		G1/500
BVH (80°-90°)	25.5	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°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1364.2	1370.7	1372.3	1376.6	1385.5	1392.9	1400.1	1399.3	1409.5	1413.8	1417.7
5°	1303.5	1305.2	1311.6	1320.2	1336.0	1356.1	1375.8	1376.2	1401.4	1421.5	1431.3
7.5°	1259.1	1264.6	1268.9	1277.8	1294.6	1316.3	1347.5	1350.1	1395.0	1434.7	1455.7
10°	1230.0	1236.4	1241.1	1252.2	1268.9	1293.2	1327.0	1331.7	1390.3	1455.7	1492.4
12.5°	1203.5	1209.9	1214.2	1228.7	1250.5	1280.4	1318.4	1324.0	1392.0	1480.1	1532.6
15°	1219.7	1224.8	1223.2	1227.4	1241.9	1276.1	1321.9	1327.4	1398.4	1503.5	1572.4
17.5°	1291.9	1296.2	1282.1	1265.9	1259.1	1284.3	1332.6	1338.5	1411.2	1527.9	1613.0
20°	1398.4	1409.9	1379.2	1342.8	1309.9	1313.3	1354.8	1361.2	1429.2	1552.3	1654.5
22.5°	1536.9	1545.5	1507.8	1448.0	1387.3	1356.1	1388.2	1392.0	1456.1	1583.9	1699.8
25°	1699.8	1705.0	1652.8	1575.9	1488.1	1429.2	1433.9	1440.7	1500.6	1619.9	1740.0
27.5°	1858.0	1874.3	1814.0	1719.9	1604.5	1506.1	1496.7	1501.0	1548.9	1640.0	1767.8
30°	2045.6	2044.4	1980.7	1871.6	1723.7	1589.9	1556.2	1555.3	1574.9	1649.8	1787.9
32.5°	2195.3	2212.8	2150.4	2031.6	1860.1	1676.7	1597.2	1595.5	1595.0	1666.9	1817.8
35°	2365.5	2368.0	2310.7	2191.1	2007.6	1785.8	1654.5	1645.9	1636.1	1703.7	1858.4
37.5°	2517.6	2529.6	2477.0	2342.8	2152.5	1899.1	1733.1	1727.6	1697.6	1767.4	1923.4
40°	2636.5	2645.4	2613.8	2486.0	2295.3	2021.3	1833.2	1823.0	1786.6	1871.6	2010.2
42.5°	2675.4	2693.8	2706.2	2643.3	2459.5	2166.2	1956.3	1943.5	1915.7	2029.8	2110.2
45°	2678.4	2707.4	2772.9	2775.9	2624.5	2339.8	2100.0	2091.0	2088.9	2232.5	2250.9
47.5°	2655.7	2685.2	2795.1	2854.5	2771.6	2515.1	2307.3	2293.2	2294.5	2483.1	2408.6
50°	2601.0	2636.1	2769.5	2905.0	2886.6	2697.2	2526.2	2521.5	2548.0	2769.0	2572.4
52.5°	2498.0	2540.3	2742.9	2936.6	2972.1	2854.1	2775.0	2761.8	2828.9	3079.4	2751.5
55°	2212.8	2276.5	2645.9	2954.2	3053.3	3004.1	2999.0	3023.0	3111.9	3418.0	2948.6
57.5°	2064.1	2111.9	2435.1	2957.1	3155.9	3178.6	3260.6	3266.7	3422.3	3777.5	3171.3
60°	1982.8	2025.1	2319.7	2937.4	3299.2	3394.5	3528.3	3549.7	3725.4	4167.0	3402.2
62.5°	1911.8	1948.2	2250.4	2869.5	3460.7	3714.7	3875.0	3885.3	4069.5	4597.1	3630.1
65°	1744.7	1786.2	2111.1	2801.5	3600.2	4114.8	4335.0	4323.1	4435.9	4968.2	3772.8
67.5°	1519.4	1572.0	1850.7	2566.8	3668.9	4552.2	4853.2	4838.2	4797.6	5211.4	3813.9
70°	1231.6	1259.9	1517.7	2161.1	3394.0	4781.8	5262.3	5246.5	5021.6	5243.5	3619.8
71°	1059.8	1103.8	1321.5	1919.6	3165.4	4711.7	5314.9	5310.7	5022.0	5155.0	3473.6
72.5°	827.2	854.2	1046.5	1487.3	2690.4	4313.2	5184.9	5201.2	4913.0	4909.2	3172.2
75°	523.3	535.2	656.7	875.6	1476.2	3054.6	4426.1	4470.1	4362.4	4018.2	2359.0
77.5°	303.9	319.3	393.3	516.0	637.8	1657.9	3167.0	3215.0	3031.1	2212.4	965.8
80°	177.0	194.1	259.1	299.6	292.8	615.2	1612.6	1694.3	1312.5	558.8	271.1
82.5°	98.3	109.8	182.2	182.6	156.0	200.9	507.5	531.0	374.5	225.3	110.8
85°	71.4	80.8	117.6	106.5	74.8	86.4	176.5	185.1	151.4	94.9	35.9
87.5°	25.2	35.9	64.6	51.3	20.5	18.0	50.9	41.5	38.5	26.5	8.2
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°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1419.8	1420.6	1416.3	1408.7	1400.9	1391.2	1380.0	1371.5	1367.6	1367.2	1366.8
5°	1435.2	1437.4	1421.0	1397.2	1370.7	1338.1	1310.4	1278.7	1270.6	1257.7	1261.6
7.5°	1460.0	1458.7	1426.6	1375.8	1313.7	1244.9	1186.8	1153.0	1117.9	1108.1	1108.5
10°	1495.5	1487.3	1426.6	1332.1	1228.7	1126.5	1045.3	994.0	966.2	943.1	934.5
12.5°	1533.1	1512.5	1413.0	1271.0	1119.2	994.0	906.8	837.5	819.6	800.7	801.1
15°	1569.0	1534.8	1386.1	1185.1	1001.2	852.4	767.8	726.4	720.8	722.9	722.5
17.5°	1601.5	1550.6	1345.0	1089.3	863.6	731.1	686.2	689.2	704.1	714.8	716.1
20°	1634.4	1560.0	1283.9	961.1	733.6	657.5	659.3	682.7	705.4	720.0	722.1
22.5°	1665.6	1564.3	1212.0	837.0	639.6	626.3	651.5	676.8	699.0	713.1	715.3
25°	1686.1	1554.4	1110.3	707.5	593.4	615.2	641.7	663.0	681.9	696.4	699.9
27.5°	1691.7	1522.8	984.1	602.8	572.0	604.5	628.9	644.7	659.3	672.9	675.5
30°	1688.7	1476.2	845.6	541.3	559.6	592.1	610.9	622.4	640.0	650.7	652.8
32.5°	1684.0	1422.0	701.1	508.3	549.3	580.5	591.6	601.9	601.5	597.3	600.2
35°	1685.7	1357.0	584.0	488.6	540.3	572.0	581.4	568.6	531.8	530.1	528.4
37.5°	1694.7	1292.8	498.9	475.0	535.7	570.7	575.8	516.9	484.4	469.4	465.6
40°	1717.7	1218.0	442.9	464.7	535.2	580.5	550.6	490.8	428.4	399.3	397.2
42.5°	1748.5	1144.4	408.7	458.3	540.3	595.5	540.3	454.1	386.0	368.9	366.4
45°	1794.3	1060.2	389.9	455.3	548.1	601.1	537.0	427.1	368.9	355.2	355.2
47.5°	1846.0	979.8	379.6	453.1	557.9	597.3	506.6	418.6	360.8	362.6	370.6
50°	1897.3	910.2	372.0	448.5	566.5	595.1	494.2	418.1	363.0	384.8	399.3
52.5°	1956.8	861.0	362.6	440.8	566.5	581.4	490.4	426.6	368.9	375.3	381.8
55°	2028.6	845.6	350.5	424.1	556.2	547.2	488.2	439.1	373.2	358.3	360.8
57.5°	2123.4	870.4	339.0	403.2	532.7	511.7	487.4	442.5	363.4	351.0	348.4
60°	2233.8	919.5	335.6	381.8	500.6	481.4	482.2	432.6	349.7	336.9	339.0
62.5°	2311.2	949.1	333.5	365.5	465.6	448.0	469.9	420.7	343.7	332.6	334.7
65°	2311.2	913.2	313.8	340.8	420.2	407.9	454.9	405.7	336.1	323.2	321.1
67.5°	2223.5	808.5	283.8	303.5	370.2	362.1	434.0	387.8	324.5	314.6	309.5
70°	1995.2	613.1	246.2	260.0	307.0	314.2	407.0	363.4	305.3	293.3	285.6
71°	1894.8	534.0	230.4	237.7	282.6	293.3	394.2	353.1	296.7	279.6	265.9
72.5°	1701.1	449.8	206.5	209.5	241.5	260.8	367.3	333.5	280.5	256.1	240.7
75°	1292.4	328.3	166.3	164.6	178.7	206.9	310.8	297.1	245.8	212.9	203.9
77.5°	558.3	178.7	124.4	125.7	121.4	156.9	244.6	255.2	210.8	173.2	165.0
80°	169.3	103.0	85.1	86.8	81.2	105.2	172.3	200.1	169.3	134.6	123.5
82.5°	86.8	61.6	58.1	57.3	51.7	59.5	104.3	136.8	121.0	84.2	74.4
85°	37.6	32.9	28.7	27.8	24.4	21.4	37.2	68.4	64.2	47.0	44.9
87.5°	9.4	8.6	5.6	5.1	3.0	0.4	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)