

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: P651733

Luminaire Tested: **GALN-SA2A-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7570.7 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

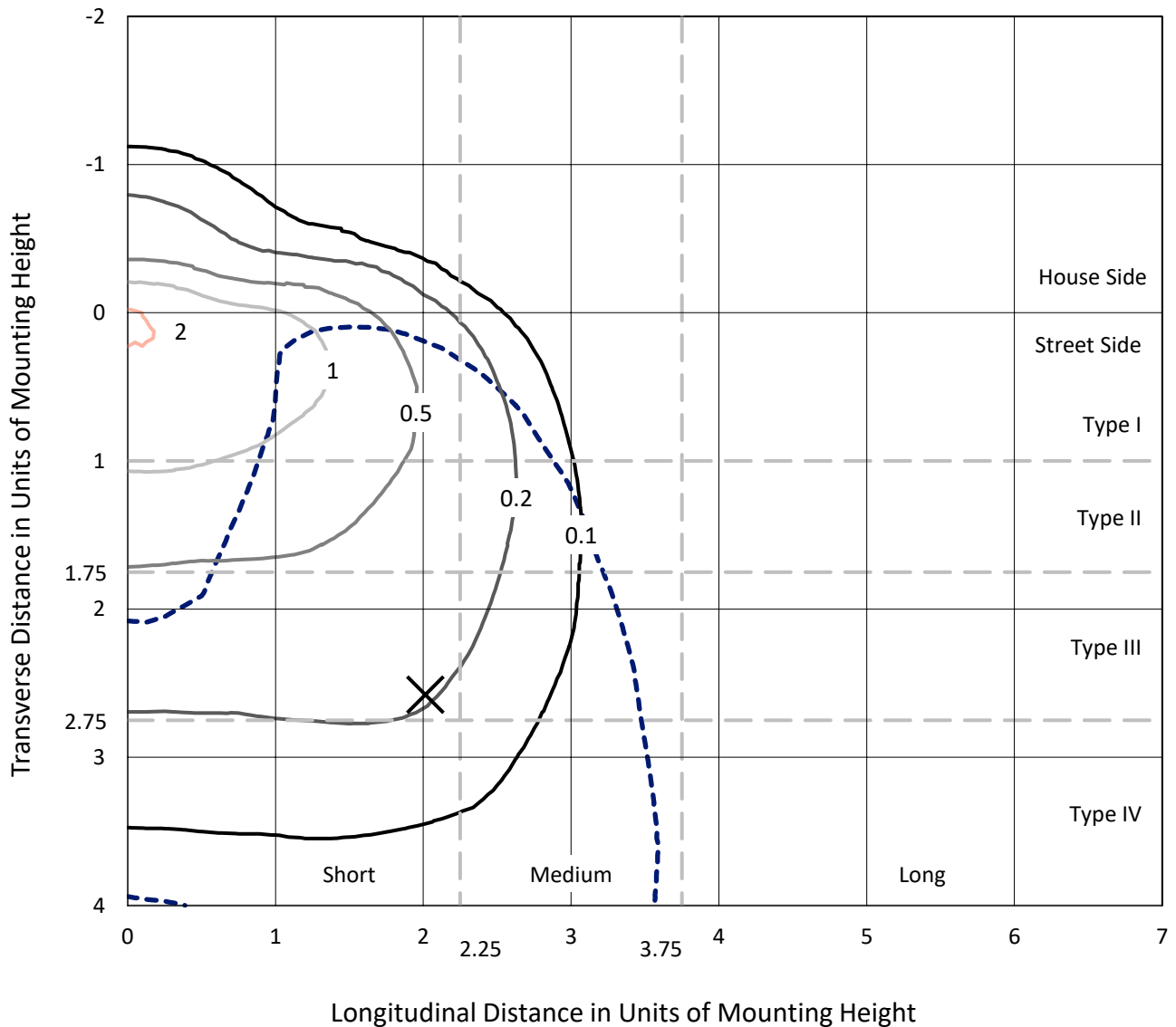
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

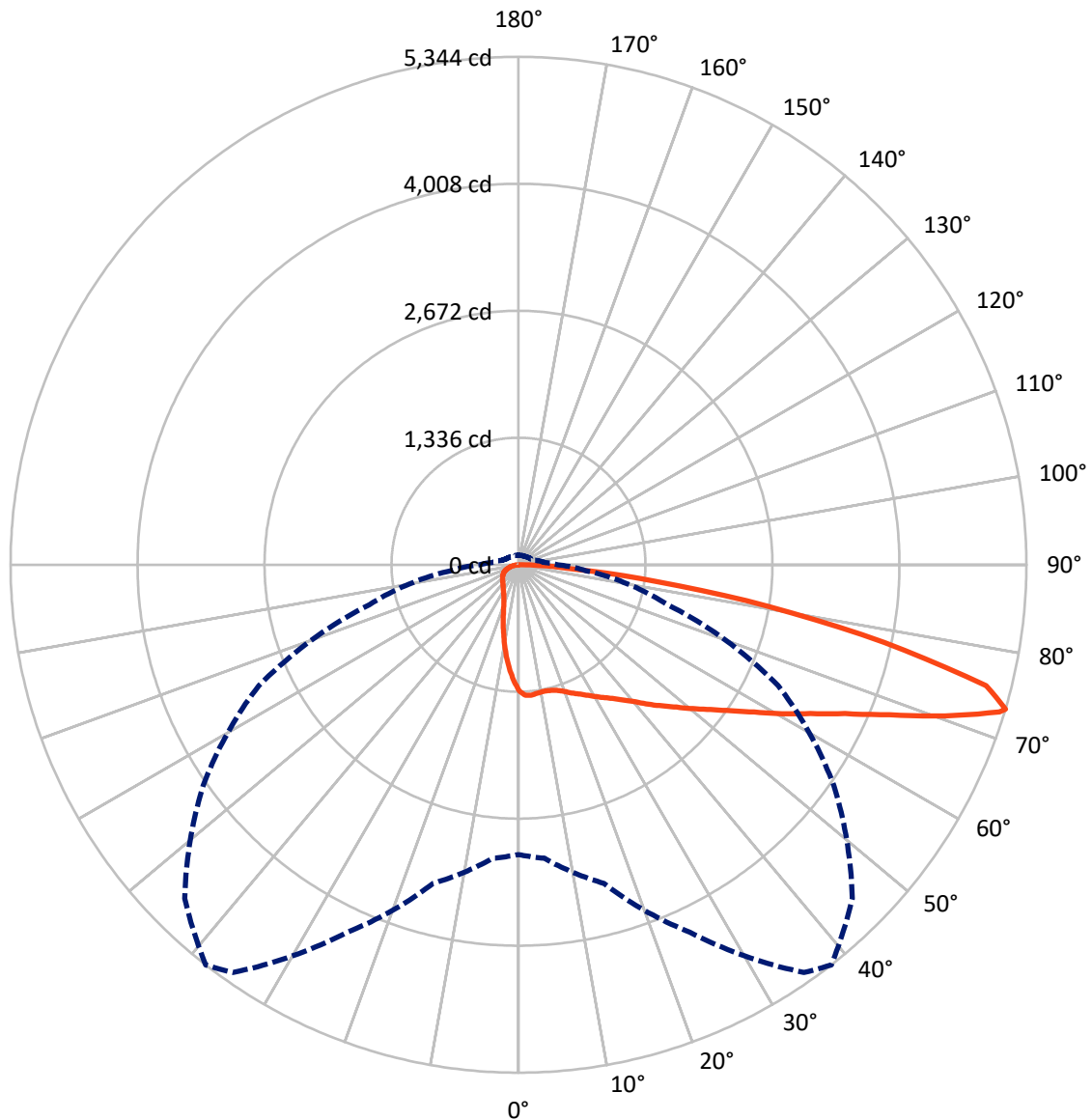
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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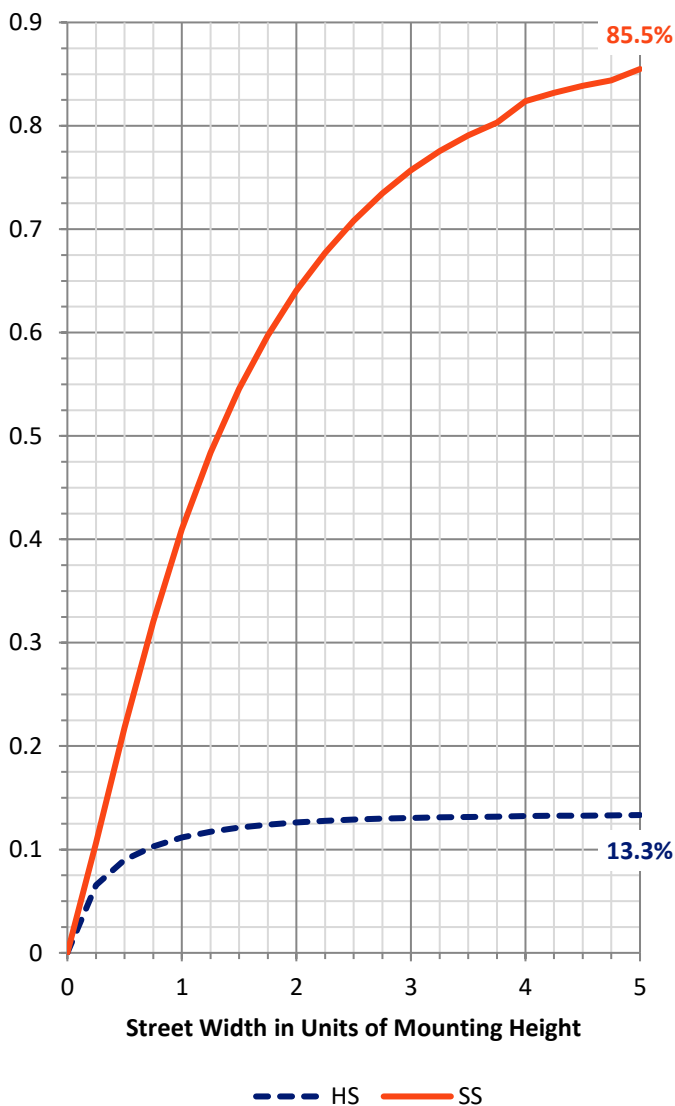
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.7	0.0	1017.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6553.0	0.0	6553.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	7570.7	0.0	7570.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.5
10°-20°	297.7	3.9
20°-30°	463.6	6.1
30°-40°	680.0	9.0
40°-50°	1008.7	13.3
50°-60°	1429.1	18.9
60°-70°	1812.9	23.9
70°-80°	1509.1	19.9
80°-90°	253.5	3.3
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°	7570.7	100.0
0°-180°	7570.7	100.0

Coefficient of Utilization



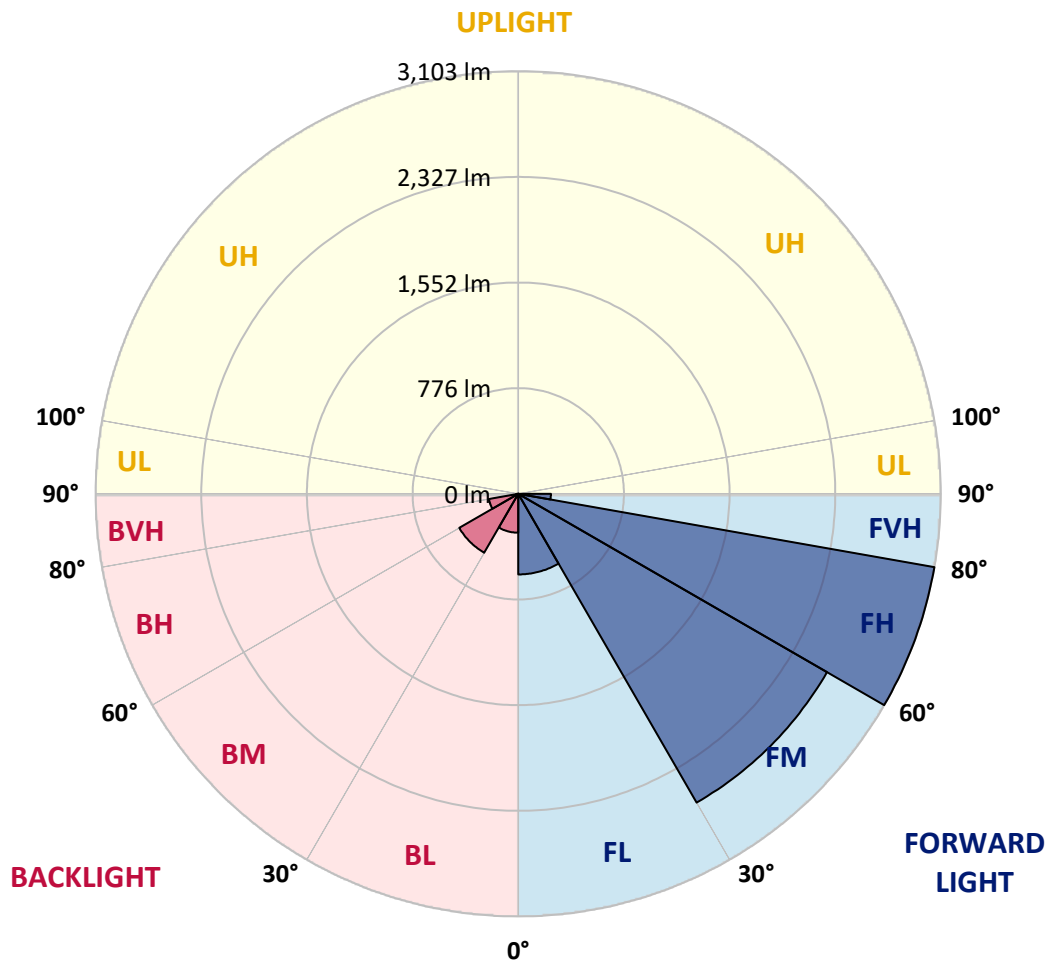
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.8	7.8			
FM (30°-60°)	2618.1	34.6			
FH (60°-80°)	3103.2	41.0			G2/5000
FVH (80°-90°)	239.8	3.2			G3/500
BL (0°-30°)	285.6	3.8	B1/500		
BM (30°-60°)	499.6	6.6	B1/1000		
BH (60°-80°)	218.8	2.9	B1/500		G1/500
BVH (80°-90°)	13.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0
2.5°	1383.4	1390.3	1386.9	1382.2	1379.2	1376.2	1371.9	1359.6	1349.7	1339.0	1322.3
5°	1393.7	1398.0	1395.1	1389.1	1382.2	1379.2	1371.1	1354.9	1339.0	1321.0	1296.2
7.5°	1387.7	1389.5	1386.1	1378.8	1372.8	1367.2	1357.8	1339.9	1320.6	1298.8	1266.4
10°	1366.4	1372.8	1372.8	1366.8	1360.8	1357.8	1348.5	1331.3	1313.8	1289.0	1250.5
12.5°	1348.9	1355.7	1361.2	1359.6	1359.1	1359.1	1351.8	1339.0	1318.5	1295.0	1249.2
15°	1336.9	1345.0	1357.0	1363.8	1368.1	1369.4	1366.4	1355.3	1334.3	1306.9	1254.4
17.5°	1334.3	1344.2	1366.0	1380.9	1392.0	1391.6	1390.8	1375.4	1352.2	1324.1	1260.7
20°	1345.9	1358.7	1389.1	1412.5	1428.8	1425.8	1421.1	1401.0	1374.1	1342.4	1266.8
22.5°	1380.5	1393.7	1427.1	1452.7	1468.6	1468.6	1454.4	1427.9	1399.3	1363.8	1274.9
25°	1430.1	1444.6	1480.1	1506.1	1513.5	1507.9	1493.8	1461.7	1428.8	1394.6	1292.0
27.5°	1490.8	1508.3	1541.2	1563.1	1560.9	1556.6	1542.1	1501.0	1468.1	1436.9	1321.0
30°	1566.4	1579.3	1613.5	1618.6	1610.9	1610.1	1589.6	1548.5	1517.8	1493.8	1362.5
32.5°	1637.8	1649.4	1676.8	1678.9	1665.3	1666.9	1647.7	1610.1	1592.5	1584.0	1432.2
35°	1713.5	1719.5	1743.1	1740.4	1731.5	1730.2	1722.5	1686.6	1692.2	1707.6	1531.0
37.5°	1776.8	1788.8	1802.0	1804.2	1803.8	1808.0	1813.1	1796.0	1828.1	1876.4	1660.6
40°	1835.0	1845.2	1864.9	1871.7	1888.4	1897.0	1914.5	1914.9	1988.9	2068.4	1820.0
42.5°	1874.3	1891.8	1928.6	1940.9	1981.6	2007.2	2033.3	2061.1	2168.4	2270.6	2008.1
45°	1908.5	1931.6	1992.7	2031.2	2086.4	2117.6	2172.7	2230.8	2385.2	2519.0	2199.2
47.5°	1960.2	1980.7	2050.9	2118.8	2202.2	2238.1	2320.7	2407.4	2609.2	2755.9	2382.2
50°	2032.0	2044.5	2115.9	2226.5	2333.0	2379.2	2488.2	2613.5	2848.6	2989.7	2542.9
52.5°	2123.9	2129.1	2185.9	2333.4	2473.7	2531.0	2675.5	2821.7	3058.1	3192.8	2670.3
55°	2232.5	2224.0	2268.4	2446.7	2634.4	2709.3	2864.4	3032.5	3293.7	3356.9	2763.1
57.5°	2339.8	2326.6	2362.1	2584.4	2832.8	2923.0	3103.9	3249.6	3504.0	3510.4	2828.1
60°	2453.6	2443.8	2486.1	2746.0	3076.0	3182.9	3350.1	3474.9	3707.5	3617.3	2838.4
62.5°	2570.3	2554.5	2614.8	2927.7	3350.1	3447.2	3609.2	3714.4	3907.2	3657.1	2739.6
65°	2683.6	2676.3	2769.5	3143.6	3662.2	3772.5	3929.8	4001.2	4067.1	3597.2	2494.7
67.5°	2804.1	2818.7	2967.5	3431.8	4069.2	4207.8	4377.5	4310.4	4112.8	3313.8	2100.9
70°	2988.0	2997.4	3227.4	3809.3	4593.8	4761.0	4843.1	4420.2	3892.2	2775.6	1579.3
72.5°	3067.1	3108.6	3459.5	4205.6	5189.7	5291.9	4999.5	4175.2	3242.4	1885.4	829.8
73°	3049.6	3099.2	3470.2	4265.9	5236.4	5343.7	4966.2	4049.1	3014.1	1623.7	711.4
75°	2831.1	2892.2	3331.3	4215.4	5145.7	5081.6	4430.1	3451.0	2036.7	738.3	324.0
77.5°	2233.9	2251.4	2639.6	3403.9	4052.1	3933.3	3315.5	2156.9	832.0	274.5	183.8
80°	1120.5	1185.1	1487.8	1949.9	2709.7	2670.8	2092.7	1020.0	346.7	161.2	121.9
82.5°	539.1	584.8	724.7	950.8	1497.2	1461.7	1036.4	557.5	220.2	94.0	71.8
85°	347.2	381.4	461.3	453.6	615.6	587.9	465.6	421.9	130.4	49.2	50.0
87.5°	229.2	251.0	301.0	240.7	224.0	202.7	205.6	237.7	25.7	18.8	6.8
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°	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0	1330.0
2.5°	1315.5	1309.9	1291.5	1273.6	1256.5	1240.2	1229.5	1215.5	1206.1	1208.6	1212.5
5°	1282.6	1270.2	1237.7	1206.1	1176.1	1140.6	1112.0	1088.9	1071.3	1065.0	1063.7
7.5°	1248.0	1227.0	1180.4	1126.1	1075.2	1031.2	980.4	955.1	925.6	915.3	911.9
10°	1227.0	1198.8	1133.4	1057.7	981.2	908.1	852.9	808.0	767.4	759.8	755.9
12.5°	1221.0	1183.8	1095.7	998.3	896.5	806.8	725.1	666.1	626.8	617.8	604.5
15°	1217.6	1171.4	1060.7	938.4	809.3	699.9	613.9	545.1	509.2	485.3	485.7
17.5°	1214.6	1157.3	1021.4	873.0	734.0	608.0	513.0	451.0	418.1	405.3	404.0
20°	1210.4	1140.6	976.1	804.2	648.2	524.1	438.2	392.1	369.8	359.1	358.7
22.5°	1208.6	1124.4	931.6	734.0	572.0	459.6	388.6	356.2	342.0	334.7	334.7
25°	1212.9	1112.9	885.0	667.3	504.5	404.4	354.4	332.2	324.0	320.3	318.9
27.5°	1226.2	1107.8	838.8	600.6	442.5	366.8	331.4	316.0	310.0	307.0	307.4
30°	1251.4	1107.3	793.5	534.9	396.3	338.2	312.9	302.3	297.5	295.9	295.4
32.5°	1292.0	1116.7	749.0	480.5	357.4	314.2	295.9	288.1	286.0	284.8	284.3
35°	1360.8	1143.2	705.0	430.9	327.5	292.8	279.6	275.8	272.7	274.1	274.5
37.5°	1453.6	1188.9	663.1	392.1	304.9	277.0	265.9	262.5	260.8	262.1	263.3
40°	1578.0	1254.8	628.1	360.9	288.5	263.8	254.0	251.0	249.3	251.4	251.8
42.5°	1715.2	1330.9	599.0	336.5	275.3	252.6	243.3	239.9	238.6	239.9	240.3
45°	1856.3	1419.4	584.0	318.9	264.2	244.6	234.7	230.9	227.9	227.0	228.3
47.5°	1995.3	1496.3	583.6	308.2	255.2	237.2	226.6	222.3	218.5	216.3	215.9
50°	2108.6	1557.4	593.8	303.5	247.5	229.2	218.5	214.2	209.1	204.8	205.6
52.5°	2194.1	1597.2	598.5	301.4	243.3	220.6	209.9	206.0	200.1	194.5	194.5
55°	2249.3	1606.6	587.0	299.2	239.9	211.6	200.1	196.6	190.7	185.1	185.1
57.5°	2268.0	1577.5	545.6	294.1	236.4	203.9	190.2	187.3	182.6	177.0	176.1
60°	2224.4	1479.2	472.8	278.7	229.6	195.8	179.6	178.3	176.6	171.9	171.5
62.5°	2056.4	1270.6	393.8	258.7	218.1	187.3	169.7	171.9	173.2	170.6	170.1
65°	1776.8	1031.7	336.5	230.9	202.7	175.3	159.0	164.6	168.0	168.0	167.2
67.5°	1441.2	792.2	283.4	206.9	183.4	159.0	147.1	151.4	153.9	153.1	155.2
70°	1024.3	536.6	230.9	179.6	159.0	140.6	131.7	131.7	129.9	129.1	129.1
72.5°	496.8	306.5	187.3	150.0	135.5	120.1	112.9	109.8	106.5	106.1	103.9
73°	415.1	274.9	178.7	144.5	129.9	117.2	109.0	104.3	102.2	100.5	100.1
75°	252.6	208.7	149.2	121.9	110.8	100.9	93.6	89.3	87.2	86.0	85.5
77.5°	166.3	155.6	115.9	93.2	84.7	78.6	75.7	71.4	70.1	68.4	68.4
80°	124.0	118.8	82.9	65.9	60.7	55.6	54.7	53.9	50.5	48.3	47.4
82.5°	80.0	84.7	56.4	44.1	38.5	34.2	34.6	35.9	32.5	29.5	28.7
85°	56.9	61.1	34.2	20.1	16.2	14.1	15.8	14.1	14.5	11.5	9.4
87.5°	9.4	16.2	6.0	2.6	1.3	0.8	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)