

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: P647773

Luminaire Tested: **GALN-SA2A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647773
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-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 7048.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

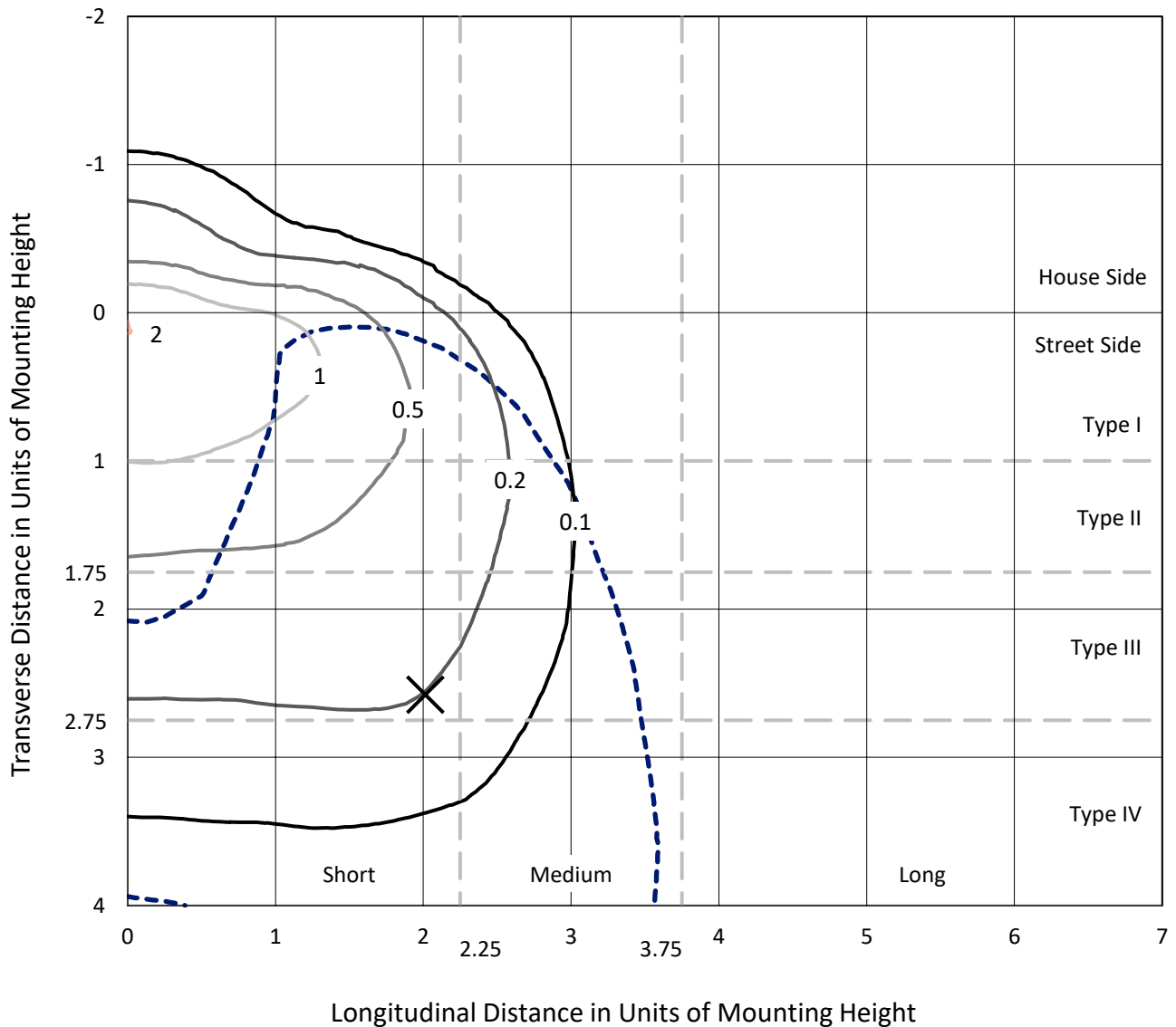
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

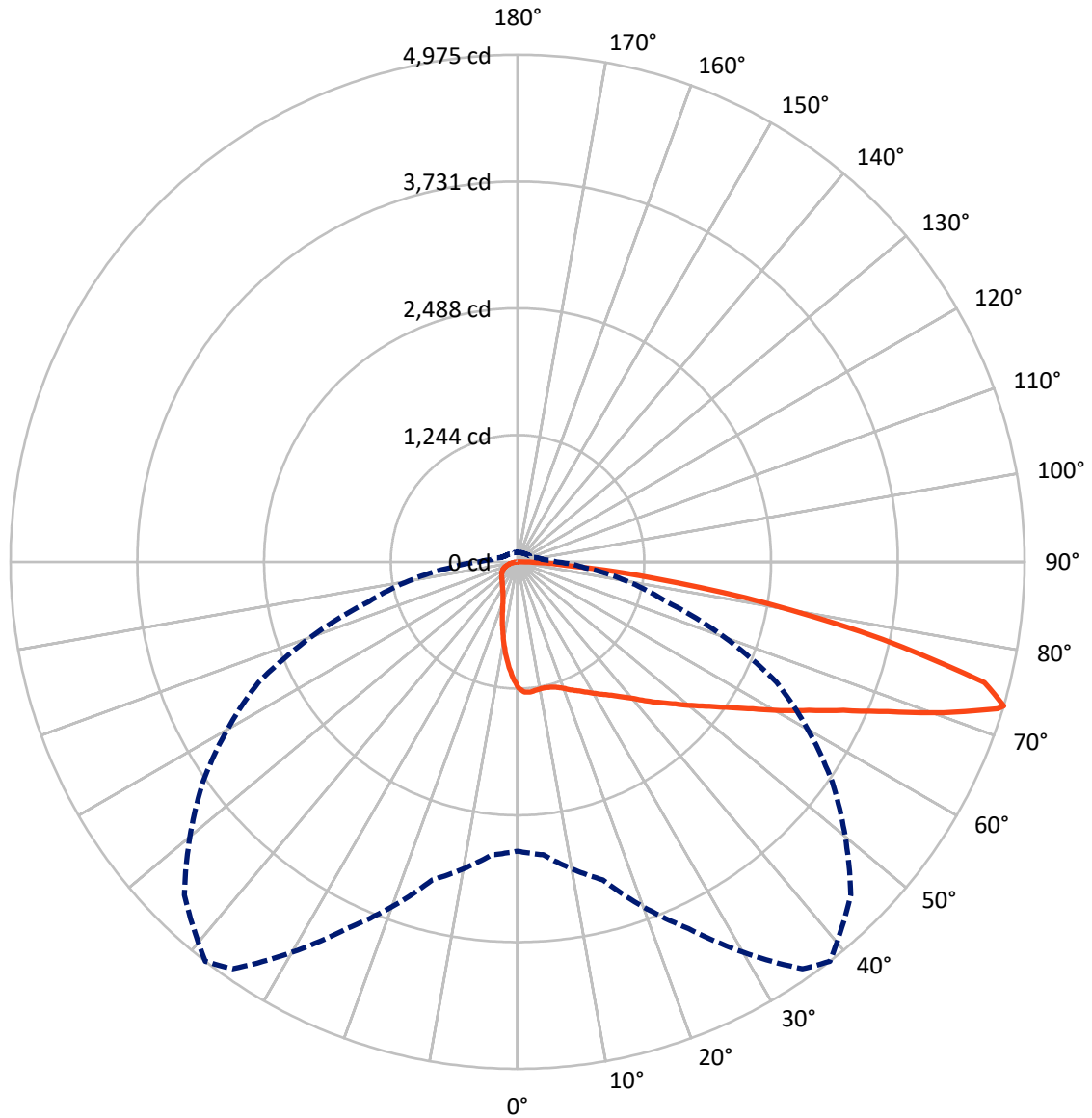
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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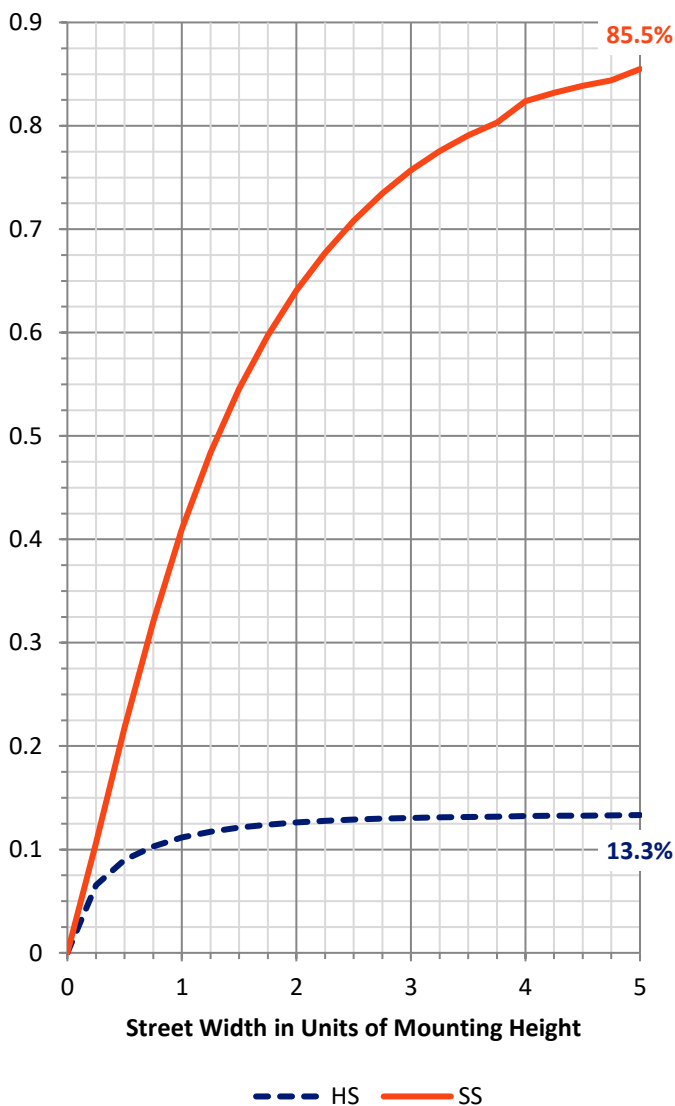
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.5	0.0	947.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6101.0	0.0	6101.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	7048.6	0.0	7048.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.5
10°-20°	277.2	3.9
20°-30°	431.6	6.1
30°-40°	633.1	9.0
40°-50°	939.1	13.3
50°-60°	1330.5	18.9
60°-70°	1687.8	23.9
70°-80°	1405.0	19.9
80°-90°	236.1	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°	7048.6	100.0
0°-180°	7048.6	100.0

Coefficient of Utilization

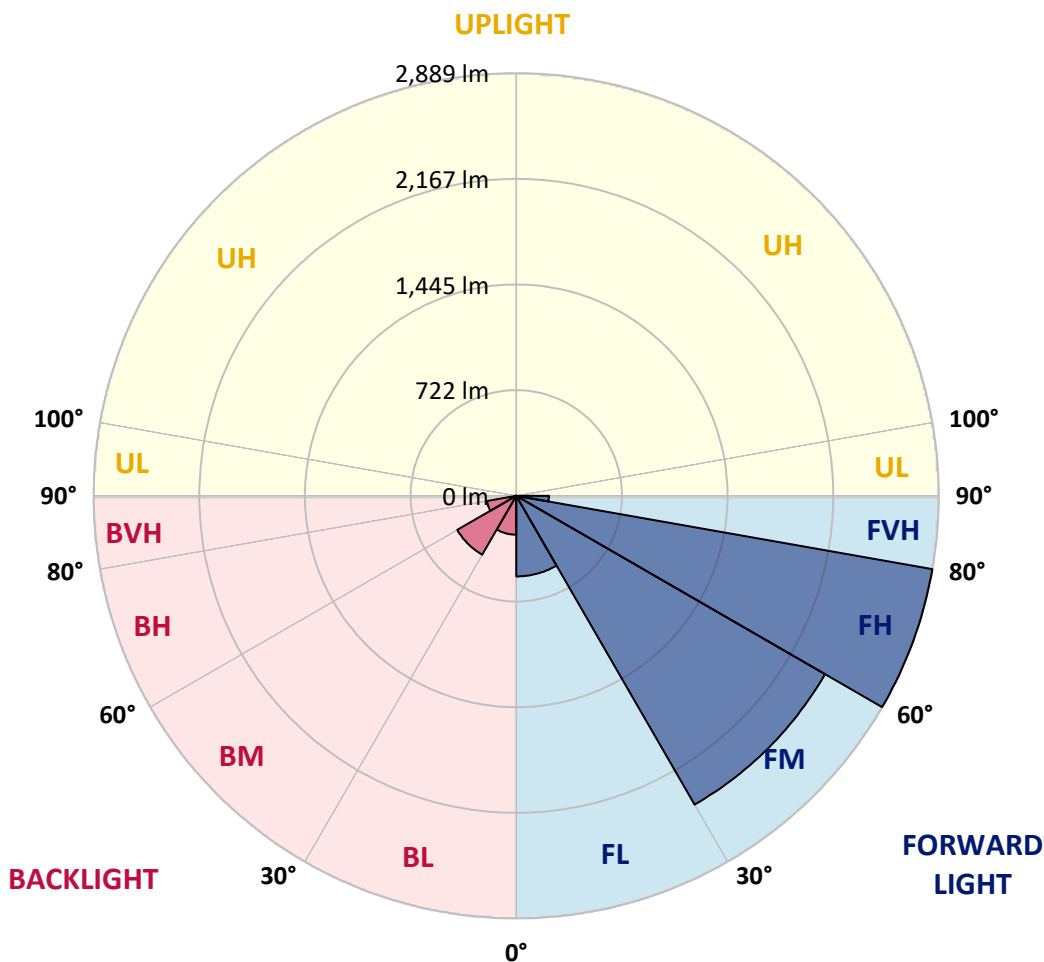


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.0	7.8			
FM (30°-60°)	2437.6	34.6			
FH (60°-80°)	2889.2	41.0			G2/5000
FVH (80°-90°)	223.3	3.2			G2/225
BL (0°-30°)	265.9	3.8	B1/500		
BM (30°-60°)	465.2	6.6	B1/1000		
BH (60°-80°)	203.7	2.9	B1/500		G1/500
BVH (80°-90°)	12.8	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1288.0	1294.5	1291.2	1286.9	1284.1	1281.3	1277.3	1265.8	1256.6	1246.7	1231.1
5°	1297.6	1301.6	1298.8	1293.3	1286.9	1284.1	1276.5	1261.4	1246.7	1229.9	1206.8
7.5°	1292.0	1293.7	1290.5	1283.7	1278.1	1272.9	1264.2	1247.5	1229.5	1209.3	1179.0
10°	1272.1	1278.1	1278.1	1272.5	1267.0	1264.2	1255.5	1239.5	1223.2	1200.1	1164.2
12.5°	1255.9	1262.2	1267.4	1265.8	1265.4	1265.4	1258.6	1246.7	1227.6	1205.7	1163.1
15°	1244.7	1252.3	1263.4	1269.8	1273.7	1275.0	1272.1	1261.8	1242.3	1216.8	1167.8
17.5°	1242.3	1251.5	1271.7	1285.7	1296.0	1295.6	1294.8	1280.5	1259.0	1232.8	1173.8
20°	1253.0	1265.0	1293.3	1315.1	1330.2	1327.5	1323.1	1304.4	1279.3	1249.8	1179.4
22.5°	1285.3	1297.6	1328.7	1352.6	1367.3	1367.3	1354.1	1329.5	1302.8	1269.8	1186.9
25°	1331.5	1345.0	1378.0	1402.3	1409.1	1403.9	1390.8	1360.9	1330.2	1298.4	1202.9
27.5°	1387.9	1404.3	1434.9	1455.3	1453.2	1449.3	1435.7	1397.5	1366.9	1337.8	1229.9
30°	1458.4	1470.4	1502.2	1507.0	1499.8	1499.1	1479.9	1441.7	1413.1	1390.8	1268.5
32.5°	1524.9	1535.6	1561.1	1563.1	1550.4	1552.0	1534.1	1499.1	1482.7	1474.8	1333.4
35°	1595.4	1600.9	1622.8	1620.4	1612.0	1610.9	1603.7	1570.3	1575.5	1589.8	1425.4
37.5°	1654.2	1665.4	1677.7	1679.8	1679.4	1683.3	1688.1	1672.2	1702.0	1747.0	1546.0
40°	1708.4	1718.0	1736.3	1742.6	1758.1	1766.1	1782.4	1782.8	1851.7	1925.7	1694.5
42.5°	1745.0	1761.4	1795.6	1807.1	1844.9	1868.8	1893.1	1919.0	2018.9	2114.0	1869.6
45°	1776.9	1798.4	1855.3	1891.1	1942.5	1971.5	2022.9	2077.0	2220.7	2345.2	2047.5
47.5°	1825.0	1844.1	1909.4	1972.7	2050.3	2083.7	2160.6	2241.4	2429.3	2565.8	2217.9
50°	1891.9	1903.5	1969.9	2073.0	2172.1	2215.1	2316.6	2433.3	2652.2	2783.5	2367.6
52.5°	1977.5	1982.2	2035.2	2172.5	2303.1	2356.4	2491.0	2627.1	2847.2	2972.6	2486.2
55°	2078.6	2070.6	2112.0	2278.0	2452.7	2522.4	2666.9	2823.3	3066.5	3125.4	2572.5
57.5°	2178.5	2166.2	2199.2	2406.2	2637.5	2721.4	2889.8	3025.5	3262.4	3268.3	2633.1
60°	2284.4	2275.2	2314.6	2556.7	2863.9	2963.4	3119.1	3235.3	3451.9	3367.8	2642.6
62.5°	2393.0	2378.3	2434.4	2725.8	3119.1	3209.4	3360.3	3458.2	3637.7	3404.9	2550.7
65°	2498.6	2491.7	2578.5	2926.8	3409.7	3512.3	3658.8	3725.3	3786.6	3349.1	2322.6
67.5°	2610.8	2624.3	2762.8	3195.1	3788.5	3917.6	4075.6	4013.1	3829.2	3085.3	1956.0
70°	2781.9	2790.7	3004.8	3546.6	4277.0	4432.6	4509.1	4115.4	3623.8	2584.1	1470.4
72.5°	2855.6	2894.2	3220.9	3915.5	4831.8	4926.9	4654.7	3887.3	3018.8	1755.4	772.6
73°	2839.2	2885.4	3230.9	3971.7	4875.3	4975.2	4623.7	3769.8	2806.2	1511.7	662.3
75°	2635.8	2692.7	3101.5	3924.7	4790.9	4731.1	4124.5	3213.0	1896.3	687.4	301.7
77.5°	2079.8	2096.1	2457.5	3169.2	3772.7	3662.0	3086.8	2008.2	774.6	255.6	171.2
80°	1043.3	1103.4	1385.2	1815.5	2522.8	2486.6	1948.4	949.7	322.8	150.1	113.5
82.5°	501.9	544.5	674.7	885.3	1394.0	1360.9	964.9	519.1	205.0	87.5	66.9
85°	323.2	355.1	429.5	422.4	573.2	547.3	433.5	392.8	121.4	45.8	46.6
87.5°	213.4	233.6	280.2	224.1	208.6	188.7	191.4	221.3	23.9	17.5	6.3
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°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1224.8	1219.6	1202.5	1185.8	1169.9	1154.7	1144.7	1131.7	1122.9	1125.2	1128.9
5°	1194.2	1182.6	1152.3	1122.9	1095.0	1062.0	1035.3	1013.8	997.5	991.5	990.3
7.5°	1161.9	1142.4	1099.0	1048.4	1001.1	960.1	912.7	889.3	861.8	852.2	849.0
10°	1142.4	1116.1	1055.2	984.8	913.5	845.5	794.1	752.3	714.5	707.4	703.8
12.5°	1136.8	1102.2	1020.2	929.4	834.7	751.1	675.1	620.1	583.6	575.2	562.8
15°	1133.6	1090.6	987.5	873.7	753.5	651.6	571.6	507.5	474.1	451.8	452.2
17.5°	1130.8	1077.5	951.0	812.8	683.4	566.0	477.6	419.9	389.3	377.3	376.2
20°	1126.9	1062.0	908.7	748.7	603.5	488.0	408.0	365.0	344.3	334.3	333.9
22.5°	1125.2	1046.9	867.3	683.4	532.6	427.9	361.8	331.6	318.4	311.6	311.6
25°	1129.2	1036.1	824.0	621.3	469.7	376.5	330.0	309.3	301.7	298.2	296.9
27.5°	1141.6	1031.4	781.0	559.2	411.9	341.5	308.5	294.2	288.6	285.8	286.2
30°	1165.1	1030.9	738.8	498.0	368.9	314.8	291.4	281.4	277.0	275.5	275.1
32.5°	1202.9	1039.7	697.3	447.4	332.8	292.5	275.5	268.3	266.3	265.1	264.7
35°	1267.0	1064.3	656.4	401.2	304.9	272.6	260.3	256.7	253.9	255.2	255.6
37.5°	1353.3	1106.9	617.4	365.0	283.8	257.9	247.6	244.4	242.8	244.0	245.2
40°	1469.1	1168.2	584.7	336.0	268.6	245.6	236.5	233.6	232.1	234.0	234.4
42.5°	1596.9	1239.1	557.7	313.3	256.4	235.2	226.5	223.3	222.1	223.3	223.7
45°	1728.3	1321.5	543.7	296.9	246.0	227.7	218.5	214.9	212.2	211.3	212.6
47.5°	1857.7	1393.1	543.3	287.0	237.6	220.9	210.9	206.9	203.4	201.4	201.0
50°	1963.1	1450.0	552.9	282.6	230.4	213.4	203.4	199.4	194.7	190.7	191.4
52.5°	2042.8	1487.1	557.3	280.6	226.5	205.4	195.4	191.8	186.3	181.1	181.1
55°	2094.1	1495.8	546.5	278.6	223.3	197.0	186.3	183.1	177.5	172.3	172.3
57.5°	2111.6	1468.8	507.9	273.8	220.1	189.9	177.1	174.4	170.0	164.8	164.0
60°	2071.0	1377.2	440.2	259.5	213.8	182.3	167.2	166.0	164.4	160.0	159.7
62.5°	1914.6	1183.0	366.6	240.9	203.0	174.4	158.0	160.0	161.2	158.8	158.4
65°	1654.2	960.5	313.3	214.9	188.7	163.2	148.1	153.2	156.4	156.4	155.7
67.5°	1341.8	737.6	263.9	192.6	170.8	148.1	136.9	140.9	143.3	142.5	144.5
70°	953.7	499.6	214.9	167.2	148.1	130.9	122.6	122.6	121.0	120.2	120.2
72.5°	462.5	285.4	174.4	139.7	126.1	111.8	105.1	102.3	99.1	98.7	96.7
73°	386.5	256.0	166.4	134.5	121.0	109.1	101.5	97.1	95.1	93.6	93.2
75°	235.2	194.3	138.9	113.5	103.1	94.0	87.1	83.2	81.2	80.0	79.6
77.5°	154.9	144.9	107.9	86.8	78.8	73.2	70.5	66.5	65.3	63.7	63.7
80°	115.4	110.6	77.2	61.3	56.5	51.8	51.0	50.2	47.0	44.9	44.2
82.5°	74.5	78.8	52.5	41.0	35.9	31.9	32.3	33.4	30.2	27.5	26.7
85°	52.9	56.9	31.9	18.7	15.1	13.2	14.7	13.2	13.5	10.7	8.8
87.5°	8.8	15.1	5.6	2.4	1.2	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)