

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: P534614

Luminaire Tested: **GALN-SA7A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-AMB-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6847 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 138.6
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

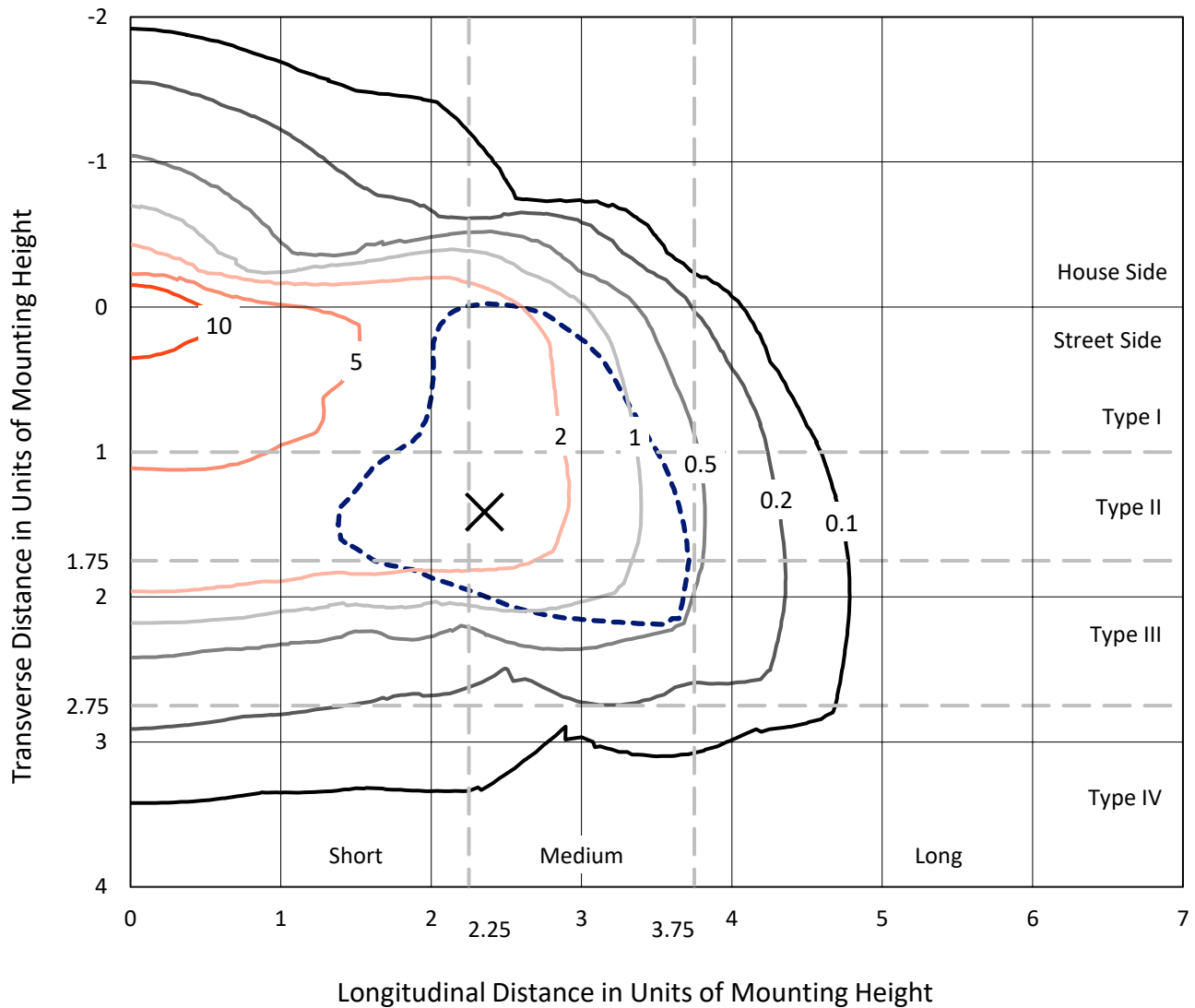


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

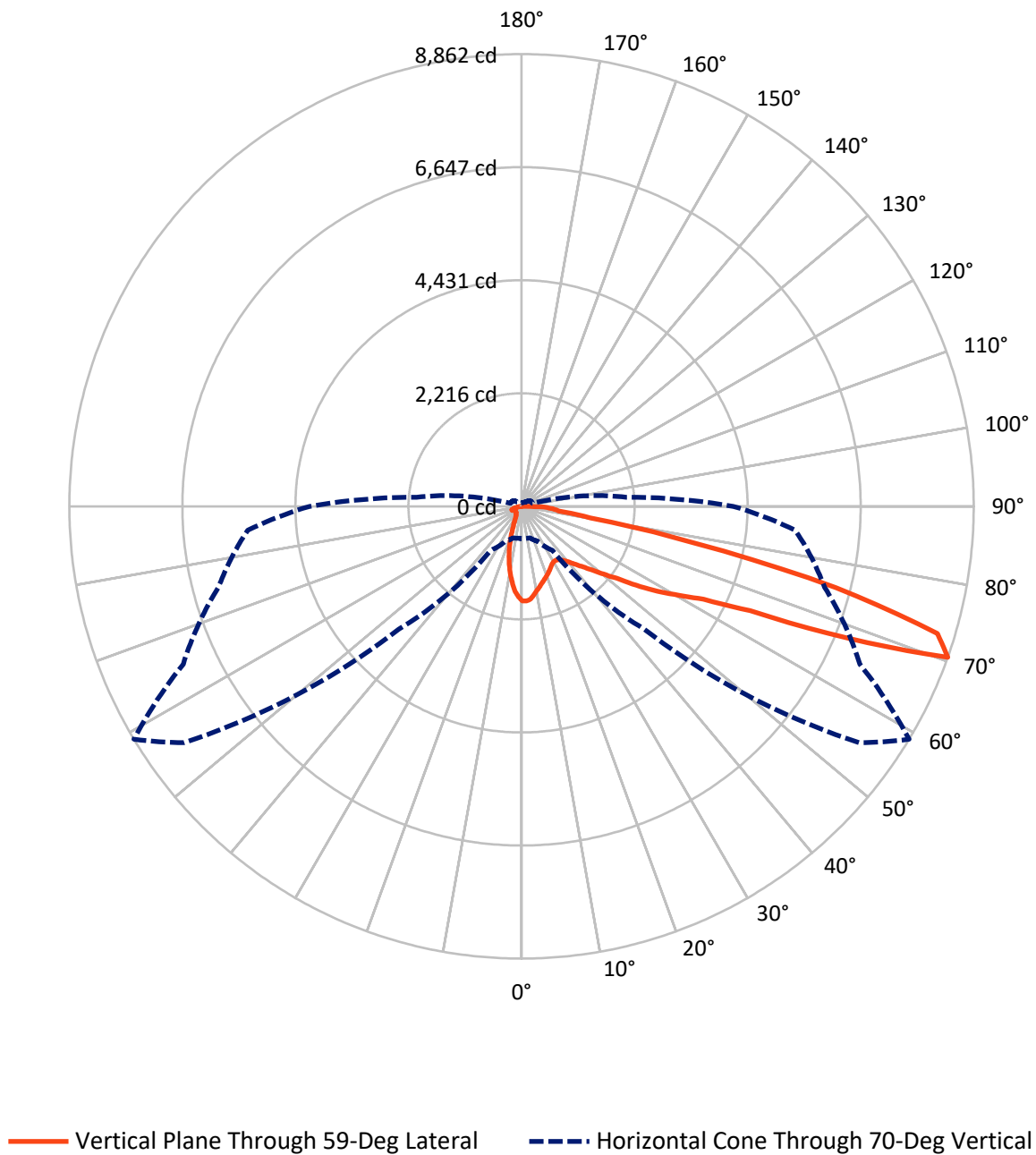


Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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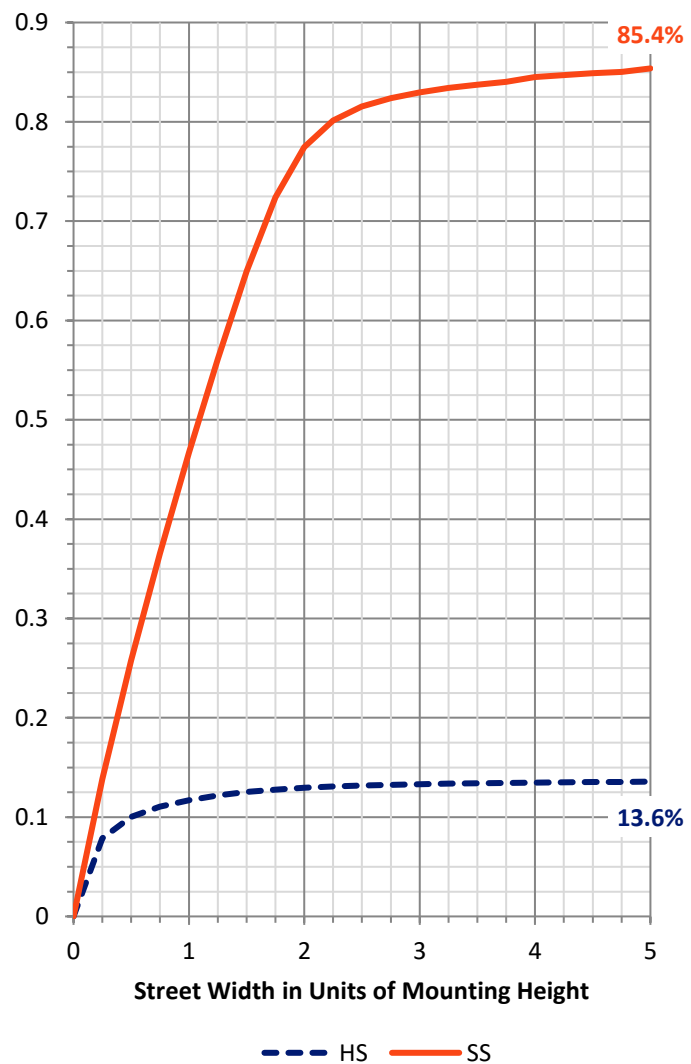
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.3	0.0	938.3
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	5908.7	0.0	5908.7
	% Fixture	86.3	0.0	86.3
Total	Lumens	6847.0	0.0	6847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.2
10°-20°	318.2	4.6
20°-30°	402.0	5.9
30°-40°	526.1	7.7
40°-50°	781.5	11.4
50°-60°	1280.4	18.7
60°-70°	1992.0	29.1
70°-80°	1233.9	18.0
80°-90°	160.9	2.3
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°	6847.0	100.0
0°-180°	6847.0	100.0

Coefficient of Utilization



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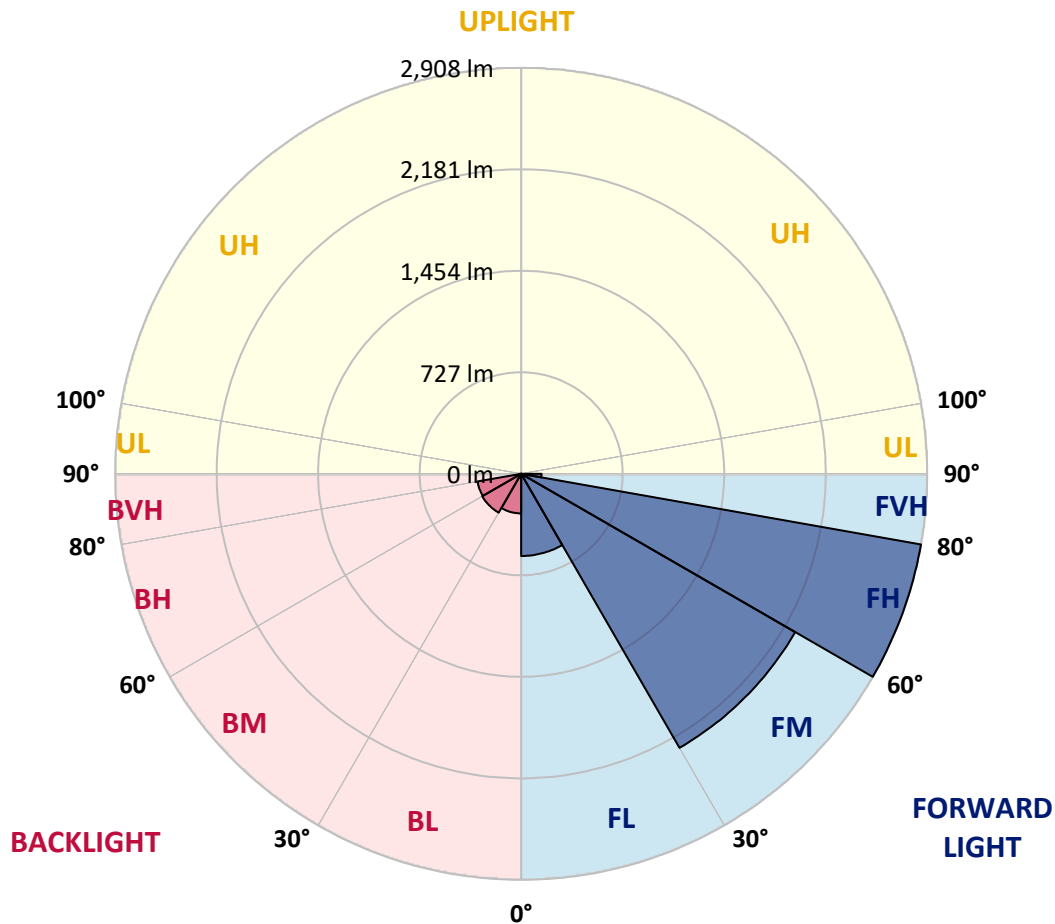
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.7	8.6			
FM	(30°-60°)	2266.3	33.1			
FH	(60°-80°)	2908.2	42.5			G2/5000
FVH	(80°-90°)	145.4	2.1			G2/225
BL	(0°-30°)	283.6	4.1	B1/500		
BM	(30°-60°)	321.7	4.7	B1/1000		
BH	(60°-80°)	317.7	4.6	B1/500		G1/500
BVH	(80°-90°)	15.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1861.1	1861.1	1861.1	1845.9	1873.2	1864.1	1867.2	1858.0	1864.1	1855.0	1845.9
5°	1770.0	1770.0	1763.9	1767.0	1791.3	1809.5	1821.6	1827.7	1815.5	1821.6	1803.4
7.5°	1618.2	1630.3	1633.4	1648.6	1678.9	1712.3	1733.6	1748.8	1754.8	1757.9	1736.6
10°	1475.5	1478.5	1499.8	1518.0	1569.6	1609.1	1657.7	1669.8	1688.0	1712.3	1691.1
12.5°	1372.3	1387.5	1393.5	1417.8	1472.5	1518.0	1575.7	1606.1	1633.4	1678.9	1669.8
15°	1278.2	1275.1	1287.3	1326.7	1384.4	1451.2	1518.0	1542.3	1584.8	1645.5	1633.4
17.5°	1205.3	1205.3	1220.5	1253.9	1299.4	1369.2	1460.3	1487.7	1545.3	1624.3	1600.0
20°	1168.9	1171.9	1178.0	1187.1	1223.5	1305.5	1390.5	1436.0	1499.8	1606.1	1575.7
22.5°	1162.8	1159.8	1156.7	1159.8	1181.0	1226.6	1323.7	1381.4	1466.4	1596.9	1545.3
25°	1171.9	1168.9	1165.8	1162.8	1162.8	1193.2	1278.2	1326.7	1426.9	1593.9	1515.0
27.5°	1196.2	1202.3	1187.1	1171.9	1156.7	1168.9	1226.6	1278.2	1387.5	1606.1	1499.8
30°	1238.7	1241.7	1235.7	1214.4	1184.0	1168.9	1205.3	1250.8	1354.1	1618.2	1487.7
32.5°	1287.3	1287.3	1287.3	1269.1	1232.6	1190.1	1208.3	1250.8	1351.0	1648.6	1478.5
35°	1338.9	1351.0	1351.0	1332.8	1302.5	1232.6	1244.8	1284.2	1375.3	1688.0	1502.8
37.5°	1411.8	1414.8	1411.8	1414.8	1381.4	1308.5	1311.6	1345.0	1417.8	1745.7	1539.3
40°	1481.6	1472.5	1493.7	1511.9	1490.7	1408.7	1399.6	1436.0	1493.7	1839.8	1606.1
42.5°	1545.3	1548.4	1563.6	1596.9	1615.2	1539.3	1524.1	1551.4	1590.9	1952.2	1718.4
45°	1606.1	1615.2	1672.8	1709.3	1745.7	1669.8	1660.7	1691.1	1733.6	2085.7	1885.4
47.5°	1660.7	1666.8	1739.6	1827.7	1891.4	1858.0	1845.9	1867.2	1888.4	2280.1	2094.9
50°	1712.3	1733.6	1827.7	1940.0	2049.3	2085.7	2061.5	2085.7	2082.7	2477.4	2325.6
52.5°	1855.0	1876.3	1979.5	2091.8	2219.3	2319.5	2359.0	2343.8	2322.6	2696.0	2589.7
55°	2164.7	2155.6	2210.2	2280.1	2425.8	2556.3	2750.6	2726.4	2632.2	2923.7	2850.8
57.5°	2468.3	2516.9	2516.9	2498.6	2644.4	2869.0	3127.1	3133.2	2954.1	3169.6	3160.5
60°	2589.7	2644.4	2768.9	2932.8	3105.9	3227.3	3530.9	3530.9	3281.9	3448.9	3479.3
62.5°	2310.4	2389.4	2583.7	2917.6	3537.0	4177.6	4144.2	4004.5	3722.2	3849.7	3983.3
65°	1426.9	1448.2	1691.1	2352.9	3373.0	5021.6	5328.2	4924.4	4393.1	4526.7	4818.2
67.5°	859.2	871.3	926.0	1208.3	2143.4	4933.5	7158.9	6894.8	5625.8	5464.8	5498.2
70°	634.5	625.4	640.6	756.0	1050.5	3403.4	8072.8	8862.2	7313.8	6151.0	5385.9
72.5°	504.0	510.1	516.1	628.5	783.3	1414.8	7034.5	8522.1	7851.2	5792.7	4080.4
75°	394.7	397.7	428.1	531.3	749.9	762.0	4453.8	6366.5	5838.3	3913.4	1791.3
77.5°	294.5	303.6	334.0	443.3	719.5	731.7	1940.0	3488.4	2966.2	1609.1	479.7
80°	194.3	197.3	227.7	364.3	680.1	734.7	877.4	1366.2	913.8	343.1	176.1
82.5°	109.3	115.4	142.7	227.7	561.7	713.5	737.8	731.7	415.9	170.0	94.1
85°	60.7	60.7	85.0	133.6	334.0	692.2	698.3	616.3	288.4	94.1	51.6
87.5°	27.3	27.3	39.5	60.7	157.9	458.4	516.1	440.2	182.2	39.5	18.2
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°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1830.7	1818.6	1803.4	1770.0	1767.0	1742.7	1736.6	1709.3	1694.1	1715.4	1697.1
5°	1797.3	1782.1	1724.5	1703.2	1630.3	1584.8	1551.4	1508.9	1478.5	1478.5	1481.6
7.5°	1733.6	1706.2	1627.3	1551.4	1460.3	1384.4	1308.5	1223.5	1184.0	1178.0	1150.7
10°	1675.9	1633.4	1524.1	1405.7	1281.2	1147.6	1032.2	919.9	831.9	768.1	771.2
12.5°	1627.3	1575.7	1426.9	1266.0	1080.8	910.8	737.8	604.2	516.1	494.9	494.9
15°	1590.9	1505.9	1317.6	1108.1	889.6	667.9	500.9	406.8	364.3	343.1	343.1
17.5°	1533.2	1426.9	1208.3	956.3	680.1	470.6	370.4	327.9	309.7	303.6	300.6
20°	1475.5	1354.1	1065.6	768.1	491.8	343.1	300.6	282.4	276.3	276.3	279.3
22.5°	1423.9	1263.0	929.0	576.8	352.2	282.4	258.1	252.0	255.0	261.1	258.1
25°	1375.3	1187.1	795.4	422.0	273.2	236.8	230.7	230.7	236.8	242.9	245.9
27.5°	1329.8	1129.4	649.7	312.7	230.7	209.5	209.5	215.6	224.7	227.7	230.7
30°	1296.4	1062.6	513.1	249.0	200.4	194.3	194.3	200.4	203.4	209.5	209.5
32.5°	1269.1	1008.0	391.6	212.5	185.2	182.2	182.2	185.2	188.2	191.3	194.3
35°	1260.0	950.3	306.6	188.2	176.1	173.1	173.1	173.1	176.1	179.1	179.1
37.5°	1269.1	907.8	249.0	176.1	167.0	163.9	163.9	163.9	163.9	163.9	163.9
40°	1311.6	877.4	215.6	170.0	160.9	157.9	154.8	154.8	154.8	157.9	157.9
42.5°	1399.6	850.1	200.4	163.9	157.9	151.8	148.8	145.7	145.7	151.8	151.8
45°	1518.0	853.1	191.3	160.9	154.8	145.7	139.7	139.7	142.7	148.8	151.8
47.5°	1666.8	883.5	185.2	157.9	148.8	139.7	136.6	136.6	139.7	148.8	148.8
50°	1848.9	941.2	185.2	157.9	148.8	136.6	133.6	133.6	136.6	145.7	148.8
52.5°	2055.4	1041.4	188.2	157.9	148.8	136.6	130.5	130.5	133.6	142.7	142.7
55°	2325.6	1181.0	194.3	160.9	145.7	136.6	130.5	124.5	127.5	133.6	133.6
57.5°	2562.4	1387.5	203.4	160.9	145.7	136.6	127.5	118.4	118.4	124.5	124.5
60°	2938.9	1672.8	239.8	170.0	145.7	130.5	118.4	109.3	109.3	112.3	112.3
62.5°	3439.8	2158.6	276.3	185.2	154.8	127.5	112.3	103.2	100.2	100.2	100.2
65°	4280.8	2693.0	282.4	203.4	170.0	127.5	103.2	94.1	91.1	91.1	91.1
67.5°	4608.7	2702.1	258.1	212.5	188.2	127.5	100.2	88.0	82.0	82.0	82.0
70°	4153.3	2061.5	227.7	212.5	197.3	124.5	97.2	85.0	75.9	72.9	72.9
72.5°	2829.6	1099.0	203.4	200.4	176.1	109.3	94.1	78.9	69.8	66.8	63.8
75°	1132.4	382.5	176.1	182.2	136.6	88.0	78.9	69.8	63.8	57.7	57.7
77.5°	285.4	188.2	133.6	142.7	97.2	69.8	66.8	63.8	54.6	51.6	51.6
80°	157.9	127.5	100.2	97.2	63.8	48.6	48.6	48.6	45.5	42.5	42.5
82.5°	88.0	78.9	66.8	60.7	42.5	33.4	33.4	33.4	33.4	30.4	27.3
85°	48.6	45.5	39.5	30.4	24.3	18.2	18.2	18.2	18.2	15.2	15.2
87.5°	18.2	18.2	15.2	9.1	6.1	3.0	3.0	3.0	3.0	3.0	3.0
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)