

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: P534620

Luminaire Tested: **GALN-SA8A-AMB-U-SL2**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-AMB-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7736 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 158.1
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

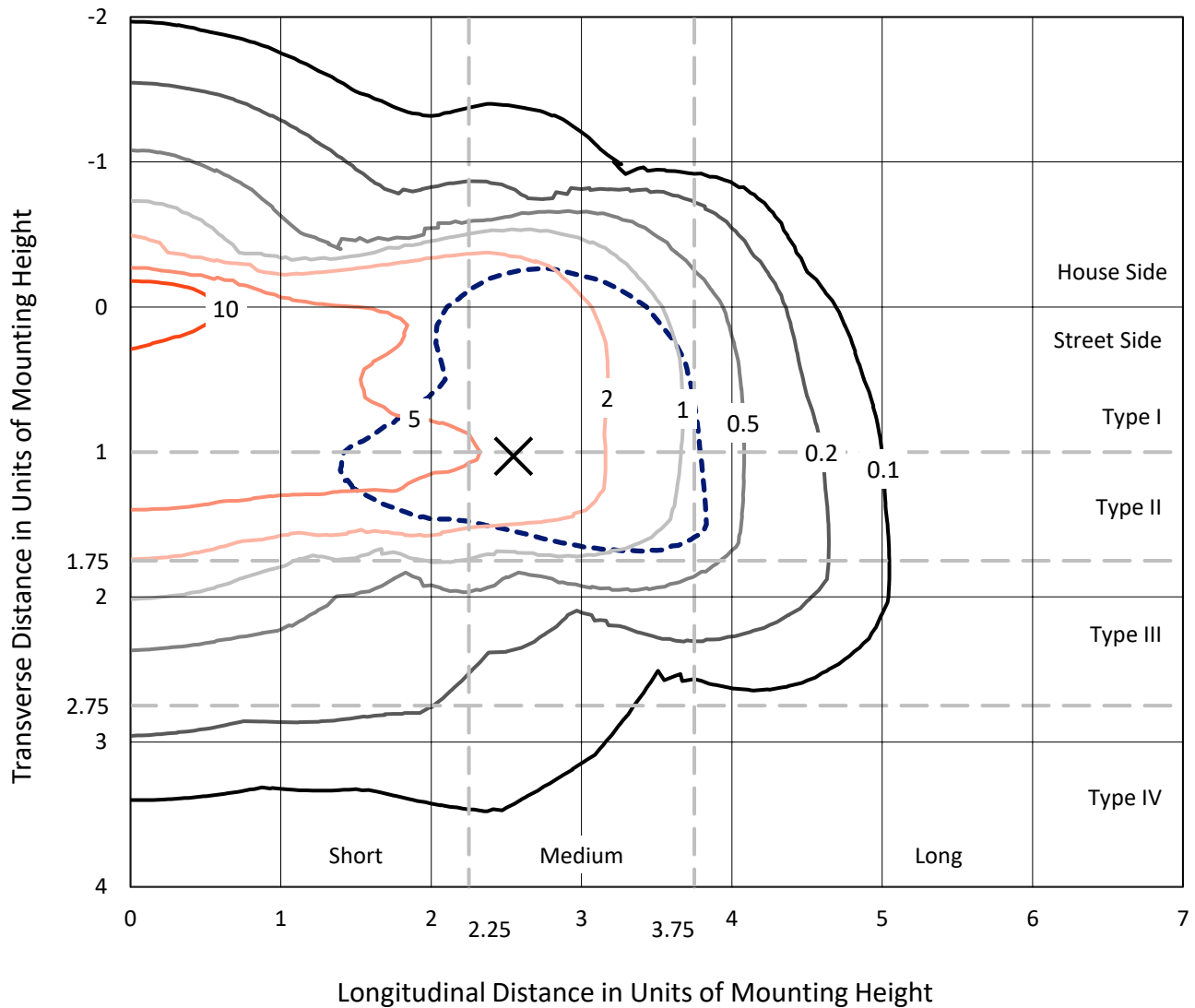


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Iso-Footcandle Lines of Horizontal Illumination

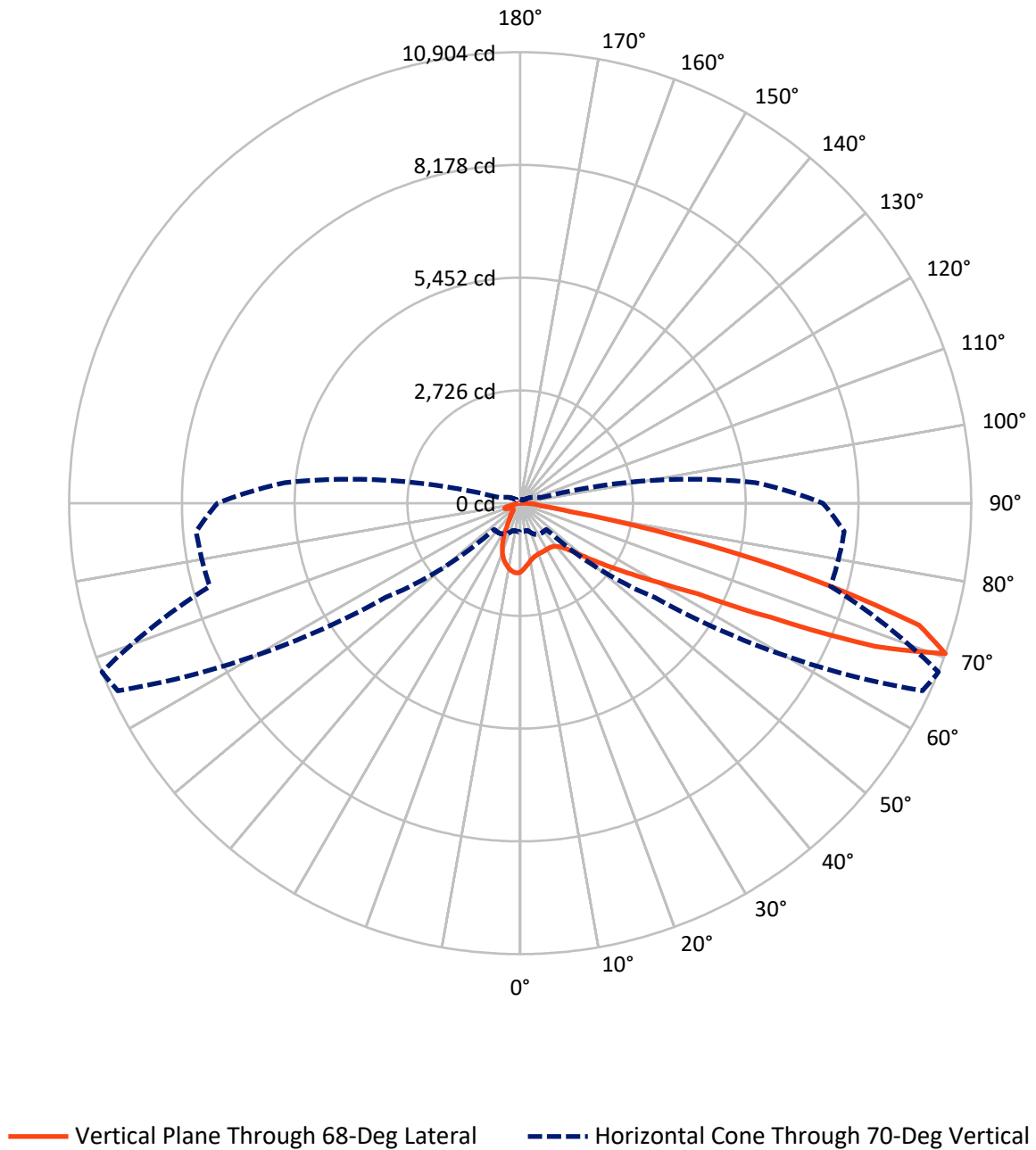
× Max cd
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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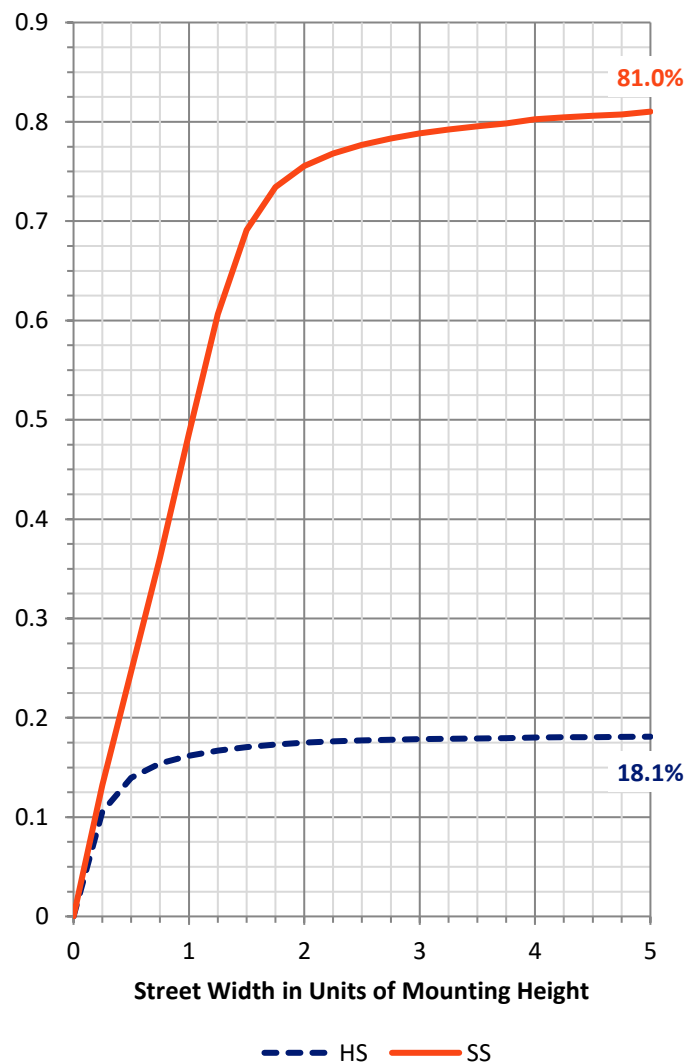
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.9	0.0	1414.9
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	6321.1	0.0	6321.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	7736.0	0.0	7736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.8
10°-20°	324.9	4.2
20°-30°	437.7	5.7
30°-40°	601.7	7.8
40°-50°	914.6	11.8
50°-60°	1520.6	19.7
60°-70°	2137.7	27.6
70°-80°	1479.1	19.1
80°-90°	178.0	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°	7736.0	100.0
0°-180°	7736.0	100.0

Coefficient of Utilization



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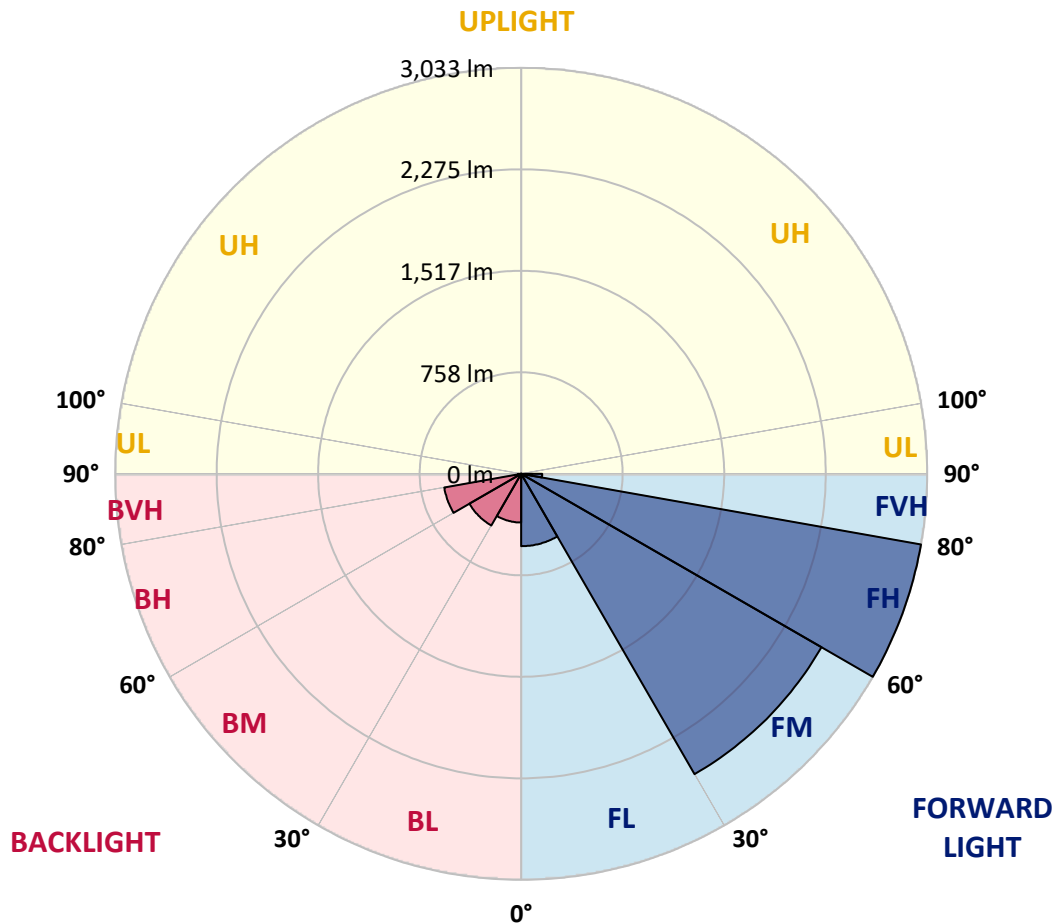
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.5	7.0			
FM	(30°-60°)	2590.8	33.5			
FH	(60°-80°)	3033.1	39.2			G2/5000
FVH	(80°-90°)	156.5	2.0			G2/225
BL	(0°-30°)	363.8	4.7	B1/500		
BM	(30°-60°)	446.0	5.8	B1/1000		
BH	(60°-80°)	583.6	7.5	B2/1000		G2/1000
BVH	(80°-90°)	21.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1511.1	1507.7	1514.5	1514.5	1524.7	1545.0	1558.6	1582.4	1599.4	1616.3	1636.7
5°	1392.2	1388.8	1402.4	1405.8	1433.0	1463.5	1483.9	1517.9	1524.7	1558.6	1606.2
7.5°	1297.2	1297.2	1300.5	1317.5	1337.9	1361.7	1399.0	1443.2	1470.3	1511.1	1596.0
10°	1222.4	1219.1	1229.2	1236.0	1266.6	1293.8	1334.5	1385.4	1409.2	1456.7	1575.6
12.5°	1161.3	1157.9	1164.7	1178.3	1205.5	1229.2	1273.4	1348.1	1365.1	1422.8	1572.2
15°	1120.6	1117.2	1120.6	1134.2	1157.9	1191.9	1239.4	1300.5	1331.1	1409.2	1582.4
17.5°	1107.0	1103.6	1100.2	1103.6	1127.4	1151.1	1212.3	1283.6	1314.1	1405.8	1602.8
20°	1117.2	1110.4	1103.6	1103.6	1107.0	1137.6	1198.7	1266.6	1303.9	1392.2	1629.9
22.5°	1147.7	1144.3	1130.8	1113.8	1107.0	1130.8	1188.5	1266.6	1297.2	1395.6	1646.9
25°	1202.1	1195.3	1181.7	1157.9	1134.2	1137.6	1191.9	1263.2	1293.8	1395.6	1670.7
27.5°	1266.6	1256.4	1246.2	1222.4	1174.9	1154.5	1188.5	1273.4	1290.4	1385.4	1687.7
30°	1365.1	1361.7	1341.3	1310.7	1246.2	1185.1	1208.9	1266.6	1290.4	1375.3	1697.8
32.5°	1483.9	1480.5	1466.9	1433.0	1341.3	1246.2	1232.6	1273.4	1290.4	1371.9	1708.0
35°	1602.8	1599.4	1609.6	1582.4	1480.5	1331.1	1276.8	1293.8	1300.5	1378.6	1708.0
37.5°	1711.4	1708.0	1718.2	1748.8	1646.9	1453.4	1344.7	1324.3	1324.3	1388.8	1725.0
40°	1826.9	1830.3	1874.4	1905.0	1857.4	1602.8	1433.0	1382.0	1375.3	1439.8	1755.6
42.5°	1959.3	1945.7	2023.8	2095.1	2047.6	1803.1	1572.2	1470.3	1450.0	1507.7	1823.5
45°	2051.0	2085.0	2156.3	2295.5	2292.1	2040.8	1772.5	1619.7	1582.4	1619.7	1949.1
47.5°	2241.2	2237.8	2332.8	2512.8	2557.0	2329.4	2003.5	1823.5	1772.5	1792.9	2115.5
50°	2478.9	2468.7	2580.7	2777.7	2913.5	2652.0	2315.9	2105.3	2047.6	2047.6	2370.2
52.5°	2624.9	2635.1	2723.3	2988.2	3324.4	3130.8	2662.2	2444.9	2387.2	2390.6	2703.0
55°	2540.0	2550.2	2652.0	2964.4	3534.9	3894.9	3110.4	2893.1	2791.3	2750.5	3161.4
57.5°	2183.4	2163.1	2244.5	2611.3	3439.8	4478.9	4023.9	3412.7	3297.2	3229.3	3684.3
60°	1623.1	1609.6	1616.3	1847.3	2849.0	4652.1	5487.4	4132.6	3925.4	3772.6	4322.7
62.5°	1232.6	1232.6	1219.1	1229.2	1697.8	4329.5	6658.9	5494.2	4818.5	4387.2	4974.7
65°	1008.5	994.9	1015.3	1005.1	1022.1	2849.0	7209.0	7769.3	6652.1	5226.0	5898.3
67.5°	821.8	808.2	821.8	933.8	893.1	1253.0	6438.2	10013.9	9243.1	6278.6	6889.8
70°	699.5	682.5	682.5	831.9	886.3	896.5	3976.3	10730.4	10903.5	7765.9	7861.0
72.5°	522.9	526.3	533.1	716.5	886.3	862.5	1660.5	9419.6	10081.8	8244.7	7531.6
75°	346.4	349.8	370.1	526.3	916.8	876.1	913.4	6336.4	7195.5	6319.4	5232.8
77.5°	230.9	230.9	251.3	343.0	801.4	903.3	852.3	3331.2	3949.2	2984.8	1711.4
80°	156.2	156.2	163.0	230.9	556.9	954.2	842.1	1293.8	1219.1	631.6	346.4
82.5°	91.7	91.7	108.7	156.2	329.4	937.2	835.3	679.1	506.0	234.3	183.4
85°	44.1	44.1	64.5	95.1	183.4	702.9	794.6	573.9	380.3	156.2	108.7
87.5°	13.6	13.6	27.2	47.5	84.9	363.3	539.9	393.9	190.2	61.1	37.4
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°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1653.7	1663.9	1674.1	1697.8	1697.8	1697.8	1684.3	1687.7	1680.9	1687.7	1691.1
5°	1643.5	1663.9	1694.4	1677.5	1667.3	1640.1	1602.8	1568.8	1551.8	1551.8	1534.9
7.5°	1633.3	1660.5	1674.1	1643.5	1585.8	1514.5	1460.1	1399.0	1365.1	1351.5	1351.5
10°	1629.9	1674.1	1667.3	1582.4	1483.9	1375.3	1266.6	1171.5	1093.4	1066.2	1056.1
12.5°	1643.5	1691.1	1633.3	1497.5	1361.7	1198.7	1042.5	889.7	787.8	743.7	740.3
15°	1677.5	1708.0	1596.0	1419.4	1212.3	998.3	801.4	618.0	539.9	512.7	509.4
17.5°	1697.8	1714.8	1551.8	1317.5	1049.3	767.4	539.9	444.8	431.3	431.3	434.6
20°	1718.2	1708.0	1480.5	1202.1	859.1	522.9	370.1	346.4	356.5	376.9	380.3
22.5°	1738.6	1667.3	1402.4	1045.9	607.8	336.2	292.0	288.6	309.0	339.6	343.0
25°	1728.4	1623.1	1297.2	869.3	376.9	268.3	251.3	258.1	271.7	292.0	295.4
27.5°	1708.0	1582.4	1212.3	675.7	264.9	237.7	234.3	237.7	244.5	254.7	261.5
30°	1687.7	1545.0	1110.4	455.0	237.7	227.5	224.1	224.1	224.1	230.9	234.3
32.5°	1663.9	1490.7	1001.7	298.8	224.1	217.3	213.9	210.5	210.5	210.5	210.5
35°	1640.1	1450.0	893.1	241.1	213.9	207.1	203.7	196.9	196.9	193.6	196.9
37.5°	1619.7	1405.8	750.4	224.1	203.7	200.3	193.6	186.8	183.4	186.8	183.4
40°	1626.5	1392.2	604.4	213.9	200.3	193.6	183.4	180.0	176.6	180.0	180.0
42.5°	1653.7	1371.9	465.2	207.1	193.6	183.4	176.6	169.8	169.8	173.2	173.2
45°	1714.8	1378.6	353.2	200.3	186.8	180.0	169.8	166.4	166.4	166.4	166.4
47.5°	1837.1	1433.0	295.4	196.9	183.4	173.2	166.4	159.6	159.6	159.6	156.2
50°	2020.4	1521.3	275.1	196.9	180.0	173.2	163.0	152.8	149.4	149.4	149.4
52.5°	2278.5	1684.3	275.1	193.6	176.6	166.4	156.2	146.0	142.6	139.2	139.2
55°	2658.8	1898.2	281.8	193.6	169.8	163.0	149.4	139.2	132.4	132.4	132.4
57.5°	3185.2	2281.9	278.4	190.2	166.4	152.8	139.2	132.4	125.6	122.2	122.2
60°	3823.5	2784.5	275.1	186.8	163.0	142.6	129.0	122.2	115.5	115.5	115.5
62.5°	4567.2	3514.5	292.0	193.6	159.6	132.4	122.2	115.5	108.7	108.7	108.7
65°	5545.2	4411.0	438.0	207.1	156.2	125.6	112.1	105.3	101.9	101.9	101.9
67.5°	6648.8	5572.3	516.1	254.7	159.6	115.5	101.9	98.5	95.1	91.7	95.1
70°	7317.7	5708.1	516.1	336.2	183.4	105.3	91.7	88.3	88.3	84.9	84.9
72.5°	6519.7	4713.2	489.0	353.2	200.3	98.5	84.9	81.5	78.1	74.7	74.7
75°	4237.8	2662.2	421.1	288.6	169.8	88.3	74.7	71.3	67.9	67.9	67.9
77.5°	1280.2	784.4	278.4	203.7	112.1	74.7	64.5	61.1	57.7	57.7	54.3
80°	319.2	258.1	132.4	112.1	71.3	57.7	50.9	47.5	44.1	44.1	44.1
82.5°	173.2	159.6	81.5	64.5	50.9	40.7	40.7	37.4	34.0	30.6	30.6
85°	105.3	95.1	57.7	40.7	30.6	23.8	23.8	23.8	20.4	20.4	17.0
87.5°	37.4	40.7	27.2	13.6	10.2	10.2	6.8	6.8	6.8	3.4	3.4
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)