

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: P534612

Luminaire Tested: **GALN-SA7A-AMB-U-SL2**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534612
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-SA7A-AMB-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6917 lumens
Efficiency: N/A
Efficacy: 49.9 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): 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

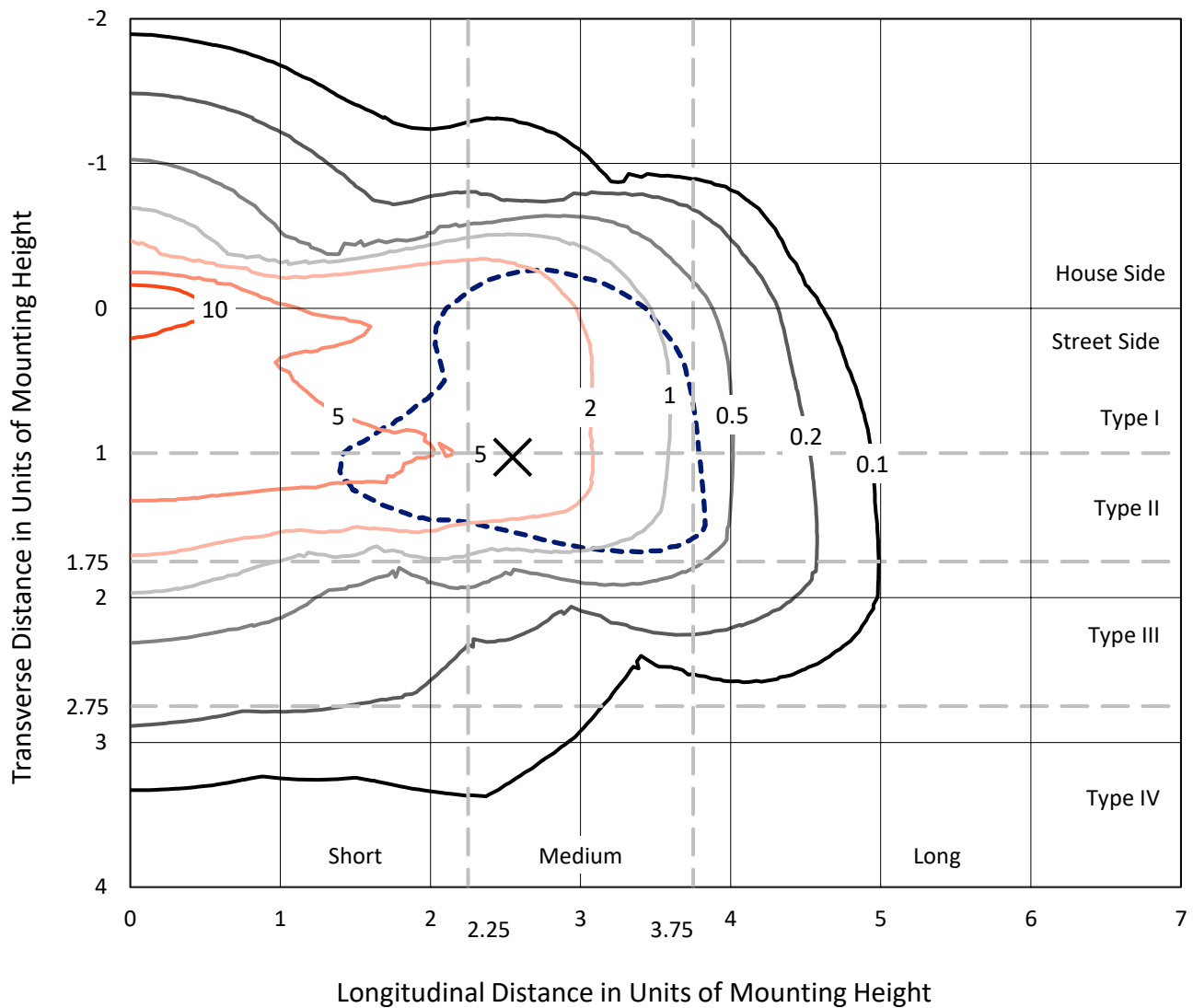


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

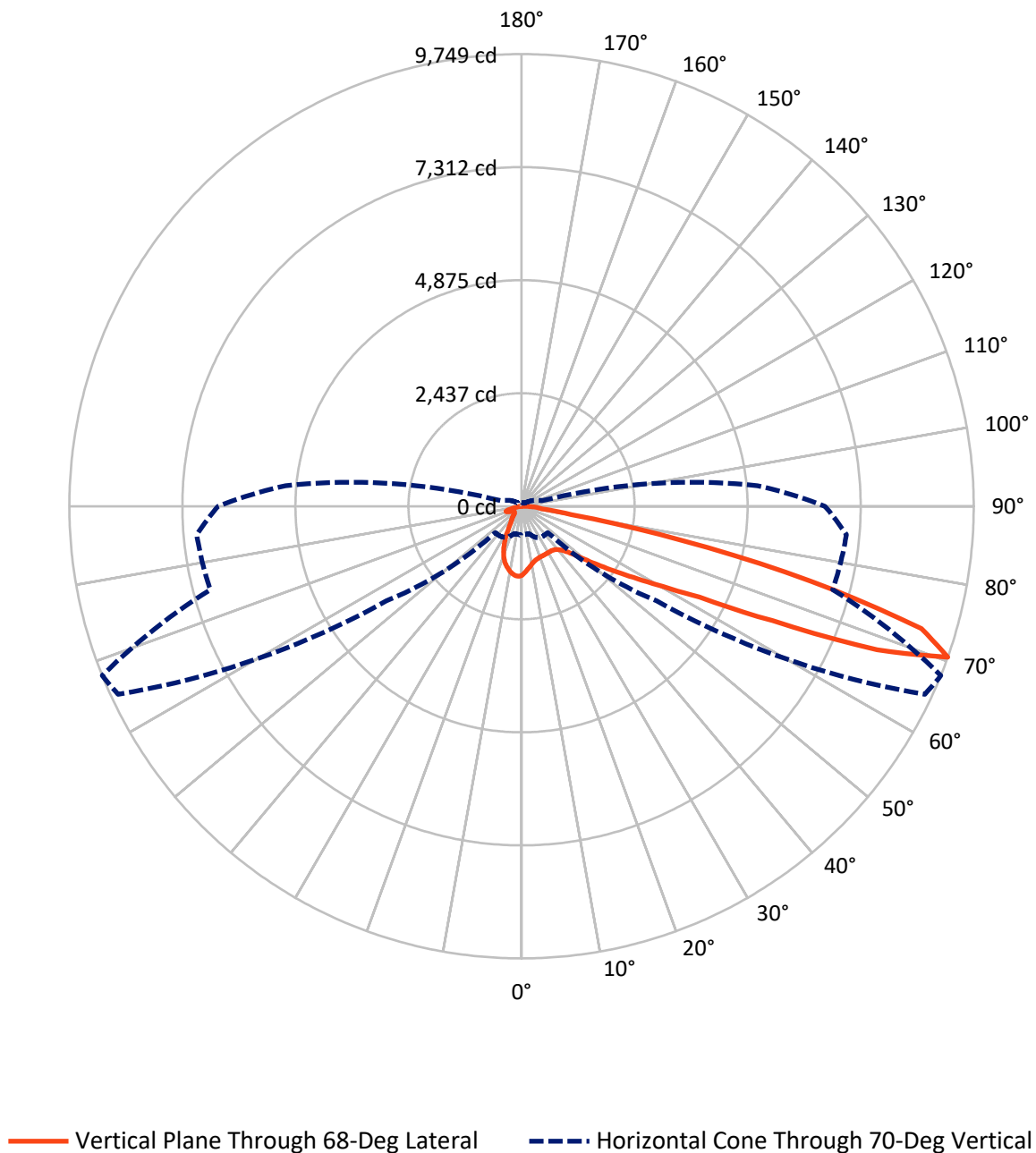


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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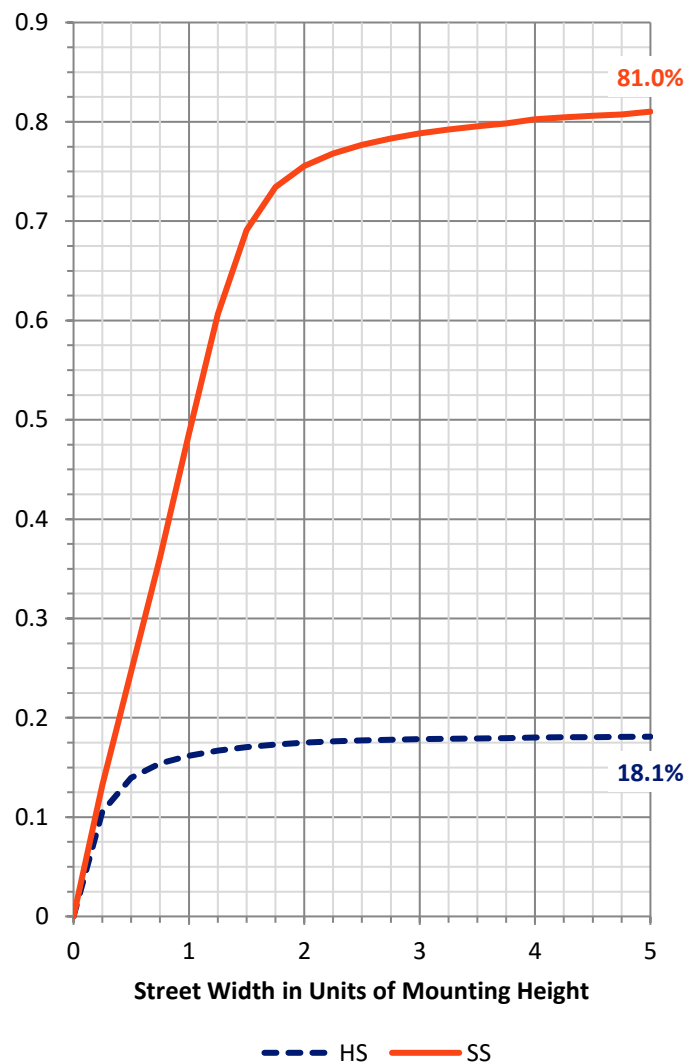
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.1	0.0	1265.1
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	5651.9	0.0	5651.9
	% Fixture	81.7	0.0	81.7
Total	Lumens	6917.0	0.0	6917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.8
10°-20°	290.5	4.2
20°-30°	391.4	5.7
30°-40°	538.0	7.8
40°-50°	817.8	11.8
50°-60°	1359.6	19.7
60°-70°	1911.4	27.6
70°-80°	1322.5	19.1
80°-90°	159.2	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°	6917.0	100.0
0°-180°	6917.0	100.0

Coefficient of Utilization



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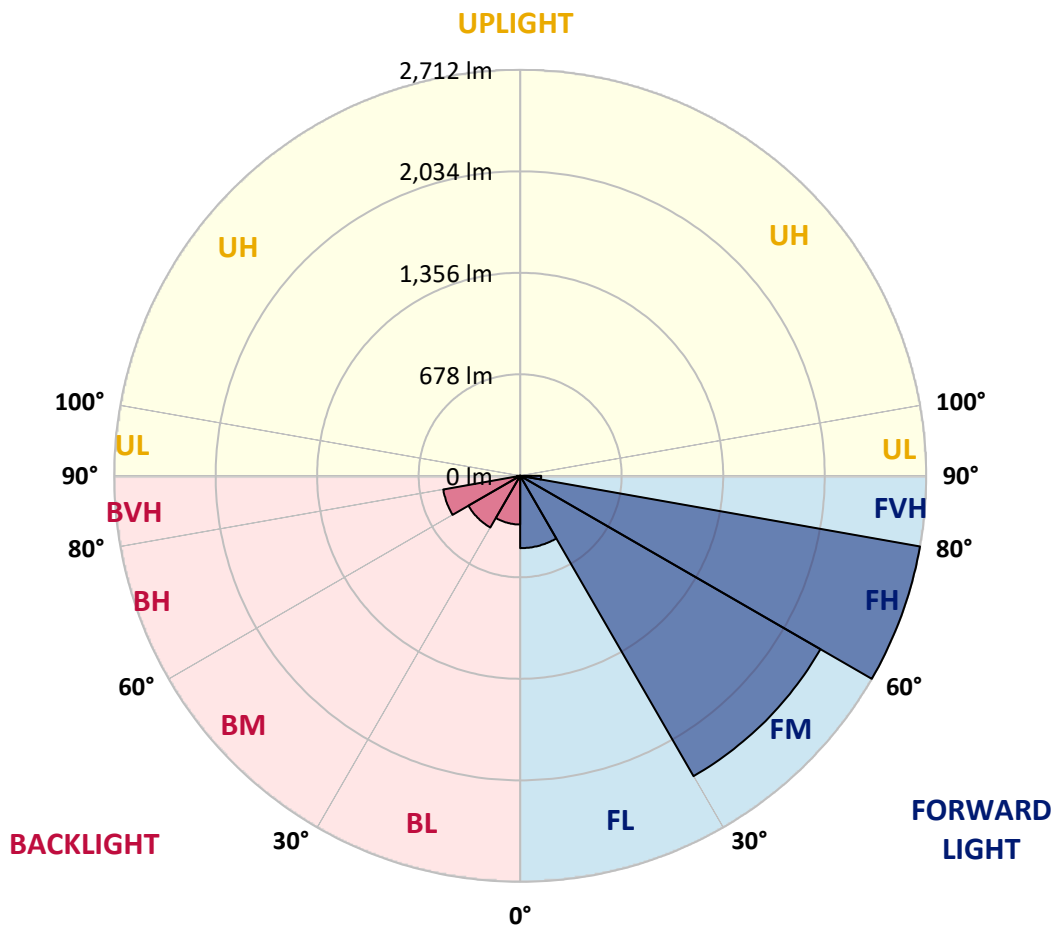
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.3	7.0			
FM	(30°-60°)	2316.6	33.5			
FH	(60°-80°)	2712.0	39.2			G2/5000
FVH	(80°-90°)	140.0	2.0			G2/225
BL	(0°-30°)	325.3	4.7	B1/500		
BM	(30°-60°)	398.8	5.8	B1/1000		
BH	(60°-80°)	521.9	7.5	B2/1000		G2/1000
BVH	(80°-90°)	19.2	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°	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1351.1	1348.1	1354.1	1354.1	1363.2	1381.5	1393.6	1414.9	1430.0	1445.2	1463.4
5°	1244.8	1241.8	1253.9	1257.0	1281.3	1308.6	1326.8	1357.2	1363.2	1393.6	1436.1
7.5°	1159.8	1159.8	1162.9	1178.0	1196.3	1217.5	1250.9	1290.4	1314.7	1351.1	1427.0
10°	1093.0	1090.0	1099.1	1105.2	1132.5	1156.8	1193.2	1238.8	1260.0	1302.5	1408.8
12.5°	1038.4	1035.3	1041.4	1053.6	1077.8	1099.1	1138.6	1205.4	1220.5	1272.2	1405.8
15°	1001.9	998.9	1001.9	1014.1	1035.3	1065.7	1108.2	1162.9	1190.2	1260.0	1414.9
17.5°	989.8	986.8	983.7	986.8	1008.0	1029.3	1083.9	1147.7	1175.0	1257.0	1433.1
20°	998.9	992.8	986.8	986.8	989.8	1017.1	1071.8	1132.5	1165.9	1244.8	1457.4
22.5°	1026.2	1023.2	1011.1	995.9	989.8	1011.1	1062.7	1132.5	1159.8	1247.9	1472.6
25°	1074.8	1068.7	1056.6	1035.3	1014.1	1017.1	1065.7	1129.5	1156.8	1247.9	1493.8
27.5°	1132.5	1123.4	1114.3	1093.0	1050.5	1032.3	1062.7	1138.6	1153.8	1238.8	1509.0
30°	1220.5	1217.5	1199.3	1172.0	1114.3	1059.6	1080.9	1132.5	1153.8	1229.7	1518.1
32.5°	1326.8	1323.8	1311.6	1281.3	1199.3	1114.3	1102.1	1138.6	1153.8	1226.6	1527.2
35°	1433.1	1430.0	1439.2	1414.9	1323.8	1190.2	1141.6	1156.8	1162.9	1232.7	1527.2
37.5°	1530.2	1527.2	1536.3	1563.6	1472.6	1299.5	1202.3	1184.1	1184.1	1241.8	1542.4
40°	1633.5	1636.5	1676.0	1703.3	1660.8	1433.1	1281.3	1235.7	1229.7	1287.3	1569.7
42.5°	1751.9	1739.7	1809.6	1873.3	1830.8	1612.2	1405.8	1314.7	1296.5	1348.1	1630.4
45°	1833.9	1864.2	1928.0	2052.5	2049.4	1824.8	1584.9	1448.3	1414.9	1448.3	1742.8
47.5°	2003.9	2000.8	2085.9	2246.8	2286.3	2082.8	1791.4	1630.4	1584.9	1603.1	1891.5
50°	2216.4	2207.3	2307.5	2483.6	2605.1	2371.3	2070.7	1882.4	1830.8	1830.8	2119.3
52.5°	2347.0	2356.1	2435.0	2671.8	2972.4	2799.4	2380.4	2186.1	2134.4	2137.5	2416.8
55°	2271.1	2280.2	2371.3	2650.6	3160.7	3482.5	2781.1	2586.8	2495.7	2459.3	2826.7
57.5°	1952.3	1934.1	2006.9	2334.8	3075.7	4004.7	3597.9	3051.4	2948.1	2887.4	3294.3
60°	1451.3	1439.2	1445.2	1651.7	2547.4	4159.6	4906.5	3695.0	3509.8	3373.2	3865.1
62.5°	1102.1	1102.1	1090.0	1099.1	1518.1	3871.1	5954.0	4912.6	4308.4	3922.8	4448.0
65°	901.7	889.6	907.8	898.7	913.9	2547.4	6445.8	6946.8	5947.9	4672.7	5273.9
67.5°	734.8	722.6	734.8	835.0	798.5	1120.4	5756.6	8953.7	8264.5	5613.9	6160.4
70°	625.5	610.3	610.3	743.9	792.4	801.6	3555.4	9594.4	9749.2	6943.8	7028.8
72.5°	467.6	470.6	476.7	640.6	792.4	771.2	1484.7	8422.4	9014.4	7371.9	6734.3
75°	309.7	312.7	330.9	470.6	819.8	783.3	816.7	5665.5	6433.7	5650.3	4678.8
77.5°	206.5	206.5	224.7	306.7	716.5	807.6	762.1	2978.5	3531.1	2668.8	1530.2
80°	139.7	139.7	145.7	206.5	497.9	853.2	753.0	1156.8	1090.0	564.7	309.7
82.5°	82.0	82.0	97.2	139.7	294.5	838.0	746.9	607.2	452.4	209.5	164.0
85°	39.5	39.5	57.7	85.0	164.0	628.5	710.5	513.1	340.1	139.7	97.2
87.5°	12.1	12.1	24.3	42.5	75.9	324.9	482.8	352.2	170.0	54.7	33.4
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°	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1478.6	1487.7	1496.8	1518.1	1518.1	1518.1	1506.0	1509.0	1502.9	1509.0	1512.0
5°	1469.5	1487.7	1515.1	1499.9	1490.8	1466.5	1433.1	1402.7	1387.5	1387.5	1372.4
7.5°	1460.4	1484.7	1496.8	1469.5	1417.9	1354.1	1305.6	1250.9	1220.5	1208.4	1208.4
10°	1457.4	1496.8	1490.8	1414.9	1326.8	1229.7	1132.5	1047.5	977.7	953.4	944.3
12.5°	1469.5	1512.0	1460.4	1339.0	1217.5	1071.8	932.1	795.5	704.4	664.9	661.9
15°	1499.9	1527.2	1427.0	1269.1	1083.9	892.6	716.5	552.6	482.8	458.5	455.4
17.5°	1518.1	1533.3	1387.5	1178.0	938.2	686.2	482.8	397.7	385.6	385.6	388.6
20°	1536.3	1527.2	1323.8	1074.8	768.2	467.6	330.9	309.7	318.8	337.0	340.1
22.5°	1554.5	1490.8	1253.9	935.1	543.5	300.6	261.1	258.1	276.3	303.6	306.7
25°	1545.4	1451.3	1159.8	777.3	337.0	239.9	224.7	230.8	242.9	261.1	264.1
27.5°	1527.2	1414.9	1083.9	604.2	236.8	212.5	209.5	212.5	218.6	227.7	233.8
30°	1509.0	1381.5	992.8	406.8	212.5	203.4	200.4	200.4	200.4	206.5	209.5
32.5°	1487.7	1332.9	895.7	267.2	200.4	194.3	191.3	188.2	188.2	188.2	188.2
35°	1466.5	1296.5	798.5	215.6	191.3	185.2	182.2	176.1	176.1	173.1	176.1
37.5°	1448.3	1257.0	671.0	200.4	182.2	179.1	173.1	167.0	164.0	167.0	164.0
40°	1454.3	1244.8	540.4	191.3	179.1	173.1	164.0	160.9	157.9	160.9	160.9
42.5°	1478.6	1226.6	416.0	185.2	173.1	164.0	157.9	151.8	151.8	154.8	154.8
45°	1533.3	1232.7	315.8	179.1	167.0	160.9	151.8	148.8	148.8	148.8	148.8
47.5°	1642.6	1281.3	264.1	176.1	164.0	154.8	148.8	142.7	142.7	142.7	139.7
50°	1806.5	1360.2	245.9	176.1	160.9	154.8	145.7	136.6	133.6	133.6	133.6
52.5°	2037.3	1506.0	245.9	173.1	157.9	148.8	139.7	130.6	127.5	124.5	124.5
55°	2377.3	1697.2	252.0	173.1	151.8	145.7	133.6	124.5	118.4	118.4	118.4
57.5°	2847.9	2040.3	249.0	170.0	148.8	136.6	124.5	118.4	112.3	109.3	109.3
60°	3418.7	2489.7	245.9	167.0	145.7	127.5	115.4	109.3	103.2	103.2	103.2
62.5°	4083.7	3142.5	261.1	173.1	142.7	118.4	109.3	103.2	97.2	97.2	97.2
65°	4958.1	3944.0	391.7	185.2	139.7	112.3	100.2	94.1	91.1	91.1	91.1
67.5°	5944.9	4982.4	461.5	227.7	142.7	103.2	91.1	88.0	85.0	82.0	85.0
70°	6543.0	5103.8	461.5	300.6	164.0	94.1	82.0	78.9	78.9	75.9	75.9
72.5°	5829.5	4214.2	437.2	315.8	179.1	88.0	75.9	72.9	69.8	66.8	66.8
75°	3789.2	2380.4	376.5	258.1	151.8	78.9	66.8	63.8	60.7	60.7	60.7
77.5°	1144.6	701.4	249.0	182.2	100.2	66.8	57.7	54.7	51.6	51.6	48.6
80°	285.4	230.8	118.4	100.2	63.8	51.6	45.5	42.5	39.5	39.5	39.5
82.5°	154.8	142.7	72.9	57.7	45.5	36.4	36.4	33.4	30.4	27.3	27.3
85°	94.1	85.0	51.6	36.4	27.3	21.3	21.3	21.3	18.2	18.2	15.2
87.5°	33.4	36.4	24.3	12.1	9.1	9.1	6.1	6.1	6.1	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)