

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: P534613

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

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-7)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5605 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

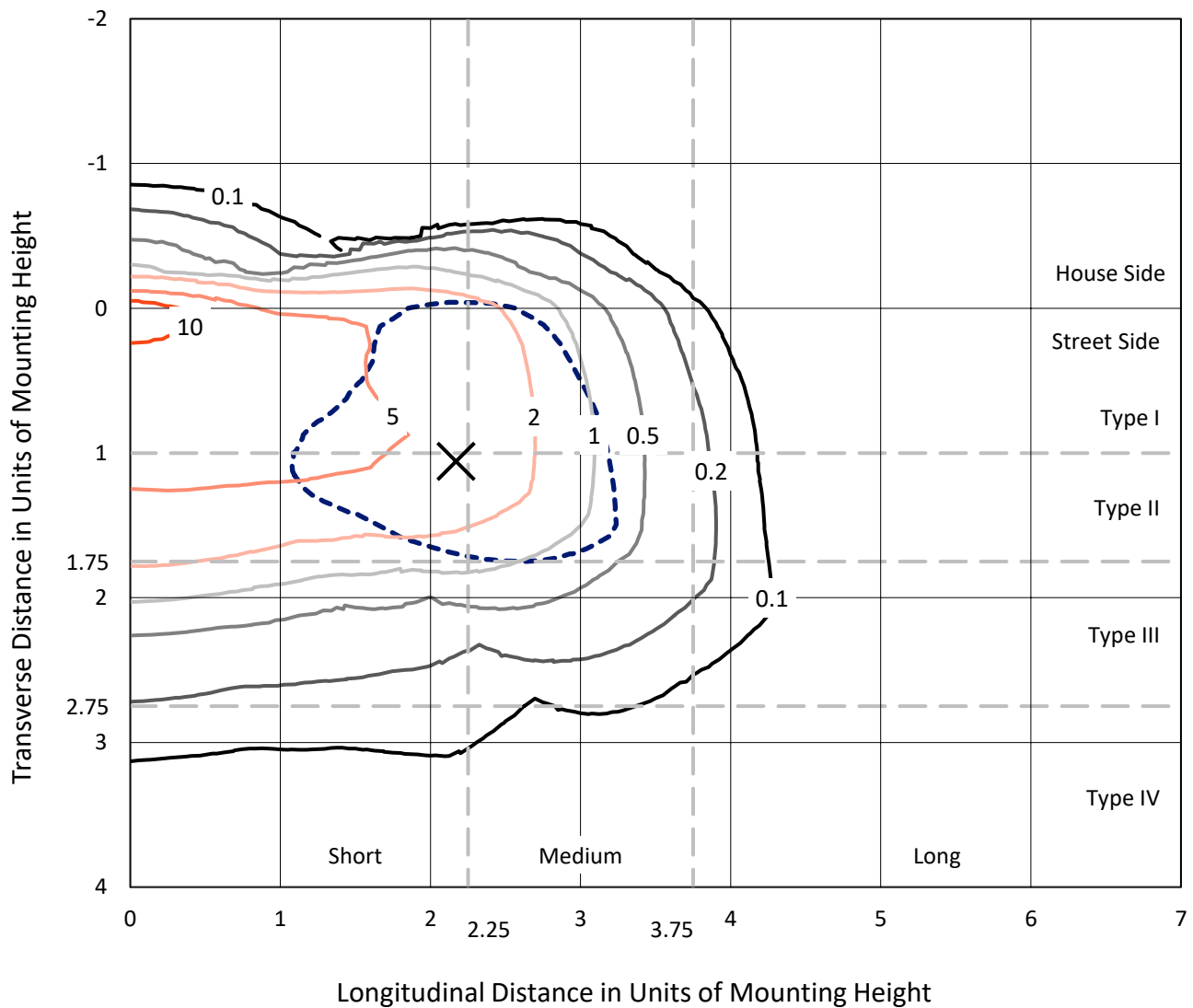
Input Watts (W): 138.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

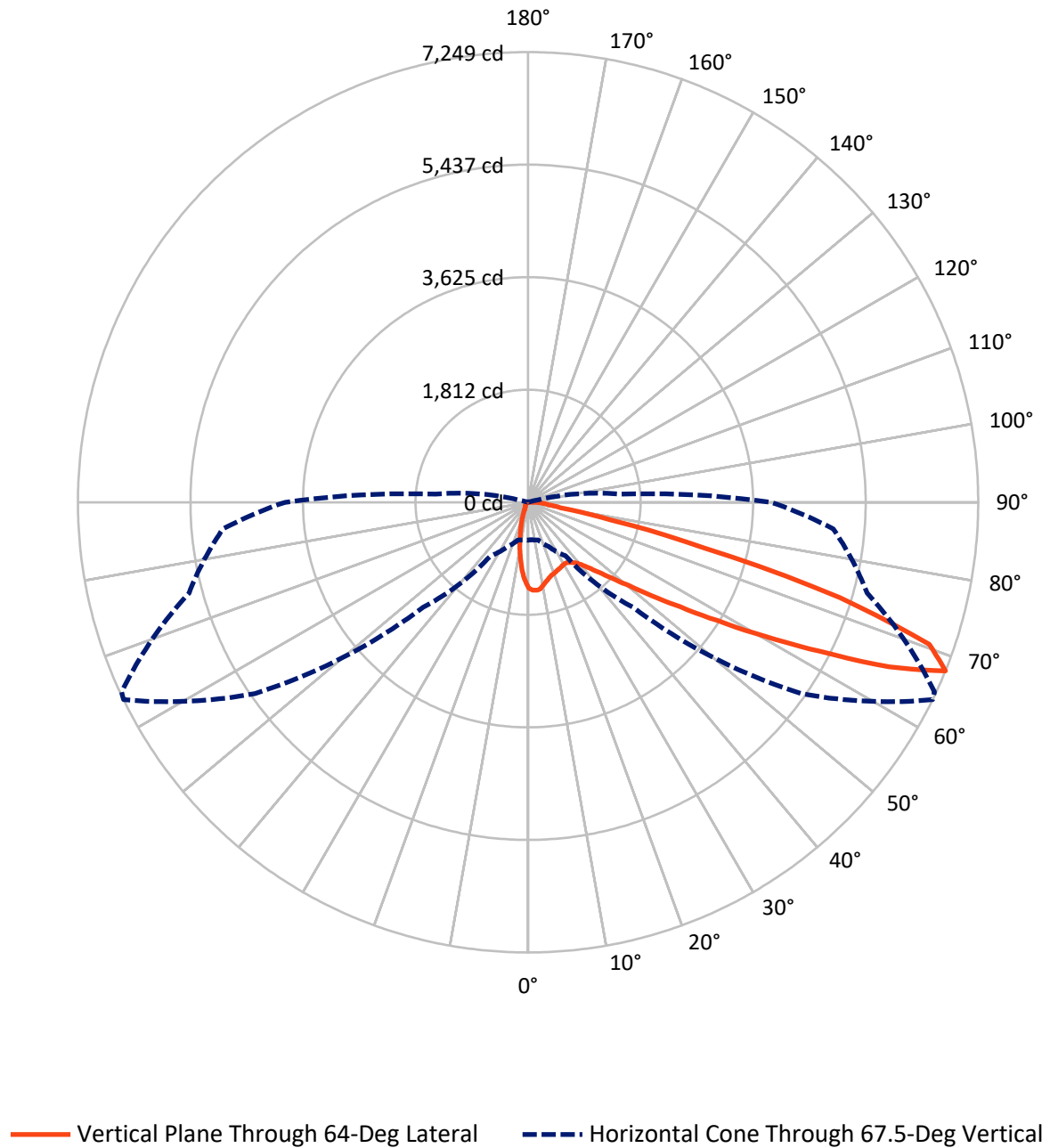
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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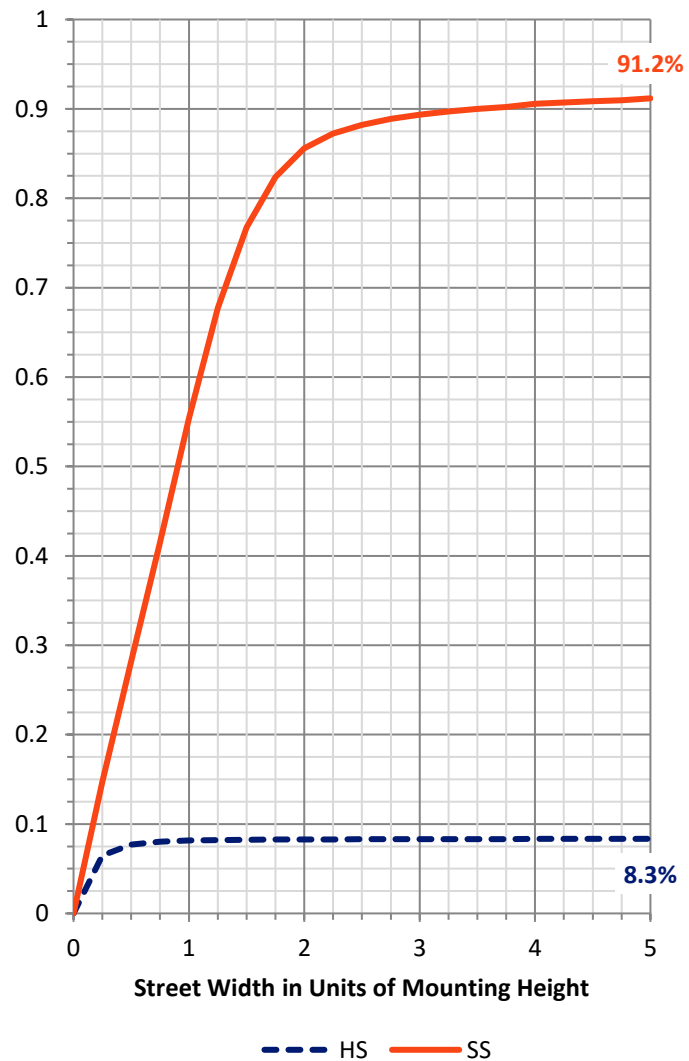
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.0	0.0	472.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5133.0	0.0	5133.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	5605.0	0.0	5605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.9
10°-20°	219.5	3.9
20°-30°	308.6	5.5
30°-40°	451.2	8.0
40°-50°	748.1	13.3
50°-60°	1310.2	23.4
60°-70°	1690.2	30.2
70°-80°	695.2	12.4
80°-90°	76.0	1.4
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°	5605.0	100.0
0°-180°	5605.0	100.0

Coefficient of Utilization



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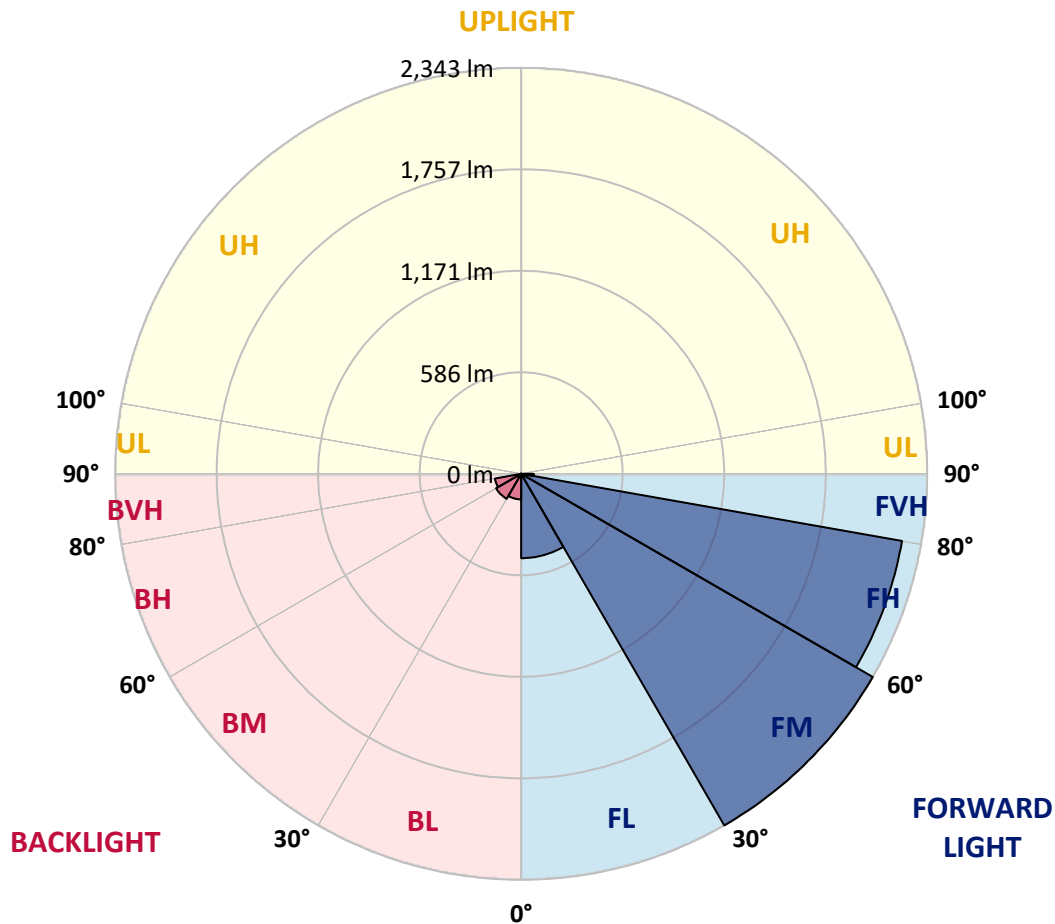
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.6	8.7			
FM	(30°-60°)	2342.6	41.8			
FH	(60°-80°)	2231.4	39.8			G2/5000
FVH	(80°-90°)	72.5	1.3			G1/100
BL	(0°-30°)	147.5	2.6	B1/500		
BM	(30°-60°)	166.9	3.0	B0/220		
BH	(60°-80°)	154.0	2.7	B1/500		G1/500
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1466.2	1481.4	1472.3	1466.2	1463.2	1448.0	1441.9	1417.6	1423.7	1399.4	1381.2
5°	1423.7	1426.8	1432.8	1438.9	1460.1	1454.1	1441.9	1423.7	1420.7	1393.4	1350.9
7.5°	1317.5	1320.5	1329.6	1353.9	1363.0	1372.1	1402.5	1408.5	1408.5	1360.0	1305.3
10°	1214.3	1208.2	1220.3	1232.5	1265.9	1305.3	1326.6	1353.9	1356.9	1335.7	1278.0
12.5°	1117.1	1111.0	1129.3	1147.5	1186.9	1226.4	1265.9	1308.4	1317.5	1323.5	1250.7
15°	1041.2	1047.3	1056.4	1077.7	1117.1	1168.7	1220.3	1265.9	1268.9	1308.4	1235.5
17.5°	992.7	992.7	1001.8	1023.0	1062.5	1114.1	1171.8	1232.5	1241.6	1302.3	1229.4
20°	989.6	983.5	980.5	989.6	1020.0	1059.4	1138.4	1217.3	1223.4	1296.2	1238.5
22.5°	1004.8	995.7	989.6	983.5	995.7	1029.1	1108.0	1193.0	1208.2	1296.2	1241.6
25°	1032.1	1029.1	1023.0	1007.8	995.7	1013.9	1077.7	1180.9	1196.0	1299.3	1253.7
27.5°	1083.7	1077.7	1071.6	1047.3	1020.0	1007.8	1056.4	1162.7	1180.9	1311.4	1271.9
30°	1150.5	1150.5	1147.5	1123.2	1071.6	1026.0	1059.4	1150.5	1165.7	1323.5	1287.1
32.5°	1241.6	1241.6	1238.5	1220.3	1153.5	1077.7	1074.6	1156.6	1174.8	1347.8	1305.3
35°	1341.8	1332.6	1335.7	1329.6	1259.8	1150.5	1120.2	1190.0	1196.0	1384.3	1326.6
37.5°	1411.6	1429.8	1448.0	1457.1	1396.4	1256.8	1199.1	1235.5	1244.6	1445.0	1363.0
40°	1539.1	1545.1	1569.4	1596.7	1560.3	1393.4	1314.4	1317.5	1326.6	1508.7	1429.8
42.5°	1648.4	1645.3	1700.0	1742.5	1724.2	1572.5	1460.1	1445.0	1451.0	1633.2	1530.0
45°	1751.6	1766.7	1845.7	1942.8	1942.8	1785.0	1648.4	1611.9	1608.9	1818.4	1690.9
47.5°	1866.9	1897.3	2003.5	2158.3	2228.2	2046.0	1879.1	1833.5	1812.3	2049.1	1933.7
50°	1988.3	2015.7	2131.0	2319.2	2540.8	2434.6	2164.4	2109.8	2128.0	2328.3	2203.9
52.5°	2100.7	2109.8	2206.9	2392.1	2726.0	2956.7	2577.3	2501.4	2486.2	2671.4	2534.8
55°	2131.0	2146.2	2231.2	2395.1	2823.1	3348.3	3445.5	2971.9	2944.6	2987.1	2862.6
57.5°	2079.4	2100.7	2182.6	2319.2	2835.3	3627.6	4152.8	3591.2	3548.7	3296.7	3263.3
60°	1797.1	1827.5	1900.3	2079.4	2625.8	3785.4	4684.0	4371.3	4286.3	3685.3	3837.1
62.5°	1426.8	1405.5	1545.1	1772.8	2185.7	3579.0	5175.8	5291.1	5236.5	4304.5	4556.5
65°	874.3	877.3	916.8	1180.9	1754.6	2944.6	5576.5	6390.0	6393.1	5203.1	5051.3
67.5°	610.2	604.1	628.4	786.2	1053.4	2392.1	5370.1	7249.1	7221.8	5652.4	4932.9
70°	473.6	464.5	461.4	576.8	740.7	1457.1	4450.3	6854.5	6821.1	5306.3	4064.7
72.5°	343.0	333.9	349.1	464.5	643.6	862.1	3169.2	5251.7	5203.1	3861.3	2474.0
75°	215.5	218.6	248.9	349.1	604.1	613.2	1860.8	2929.4	2941.5	1854.8	1010.9
77.5°	124.5	121.4	151.8	245.9	500.9	567.7	953.2	1366.0	1281.0	622.3	294.5
80°	54.6	54.6	78.9	173.0	364.3	564.6	582.8	528.2	516.1	148.7	100.2
82.5°	24.3	24.3	36.4	100.2	242.9	452.3	491.8	337.0	303.6	57.7	57.7
85°	3.0	3.0	15.2	51.6	115.4	230.7	415.9	273.2	236.8	27.3	36.4
87.5°	0.0	0.0	6.1	15.2	33.4	121.4	242.9	163.9	142.7	12.1	15.2
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°	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1366.0	1347.8	1314.4	1275.0	1226.4	1202.1	1165.7	1129.3	1117.1	1114.1	1108.0
5°	1335.7	1299.3	1223.4	1138.4	1044.3	956.2	883.4	825.7	780.2	765.0	740.7
7.5°	1278.0	1238.5	1114.1	974.4	834.8	698.2	576.8	497.8	452.3	440.2	434.1
10°	1235.5	1174.8	1001.8	810.5	613.2	470.5	355.2	282.3	242.9	224.6	224.6
12.5°	1202.1	1129.3	895.5	652.7	440.2	294.5	209.5	157.9	142.7	139.6	136.6
15°	1180.9	1074.6	795.3	500.9	309.6	185.2	136.6	127.5	124.5	121.4	121.4
17.5°	1165.7	1026.0	695.2	394.6	209.5	130.5	118.4	115.4	112.3	112.3	112.3
20°	1156.6	986.6	592.0	300.5	139.6	112.3	106.2	103.2	100.2	100.2	97.1
22.5°	1138.4	947.1	503.9	218.6	112.3	100.2	94.1	91.1	85.0	85.0	85.0
25°	1135.3	907.7	422.0	151.8	100.2	91.1	82.0	75.9	72.9	69.8	69.8
27.5°	1132.3	865.2	361.2	112.3	91.1	78.9	72.9	63.7	57.7	57.7	54.6
30°	1114.1	822.7	300.5	97.1	82.0	69.8	60.7	54.6	48.6	45.5	45.5
32.5°	1111.0	774.1	242.9	88.0	72.9	60.7	51.6	45.5	39.5	39.5	39.5
35°	1101.9	713.4	188.2	78.9	66.8	54.6	45.5	39.5	33.4	33.4	33.4
37.5°	1101.9	670.9	139.6	72.9	60.7	45.5	36.4	33.4	27.3	27.3	27.3
40°	1123.2	625.3	106.2	66.8	54.6	42.5	33.4	27.3	24.3	24.3	24.3
42.5°	1171.8	598.0	85.0	63.7	48.6	36.4	30.4	24.3	21.2	18.2	18.2
45°	1271.9	604.1	78.9	57.7	42.5	33.4	24.3	21.2	18.2	15.2	15.2
47.5°	1435.9	631.4	72.9	51.6	36.4	27.3	21.2	15.2	12.1	12.1	12.1
50°	1618.0	686.1	69.8	45.5	33.4	24.3	18.2	12.1	12.1	9.1	9.1
52.5°	1885.1	774.1	63.7	42.5	30.4	21.2	15.2	12.1	9.1	9.1	9.1
55°	2209.9	925.9	57.7	39.5	24.3	18.2	12.1	9.1	6.1	6.1	6.1
57.5°	2586.4	1098.9	51.6	33.4	21.2	15.2	12.1	6.1	6.1	3.0	3.0
60°	3084.2	1335.7	45.5	30.4	18.2	12.1	9.1	6.1	3.0	3.0	3.0
62.5°	3755.1	1566.4	39.5	24.3	15.2	9.1	6.1	6.1	3.0	3.0	3.0
65°	4070.8	1633.2	33.4	21.2	12.1	9.1	6.1	3.0	3.0	0.0	0.0
67.5°	3912.9	1493.5	27.3	18.2	12.1	9.1	6.1	3.0	0.0	0.0	0.0
70°	3081.2	1123.2	27.3	15.2	12.1	9.1	6.1	3.0	0.0	0.0	0.0
72.5°	1769.8	680.0	24.3	15.2	9.1	9.1	6.1	3.0	3.0	0.0	0.0
75°	701.2	218.6	21.2	12.1	9.1	9.1	6.1	3.0	3.0	0.0	0.0
77.5°	188.2	82.0	18.2	12.1	12.1	12.1	12.1	6.1	3.0	0.0	0.0
80°	60.7	30.4	18.2	12.1	12.1	15.2	12.1	6.1	3.0	0.0	0.0
82.5°	45.5	21.2	18.2	12.1	12.1	12.1	12.1	6.1	3.0	0.0	0.0
85°	30.4	9.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	0.0
87.5°	15.2	6.1	3.0	3.0	3.0	3.0	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)