

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: P526048

Luminaire Tested: **GALN-SA1A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3280 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

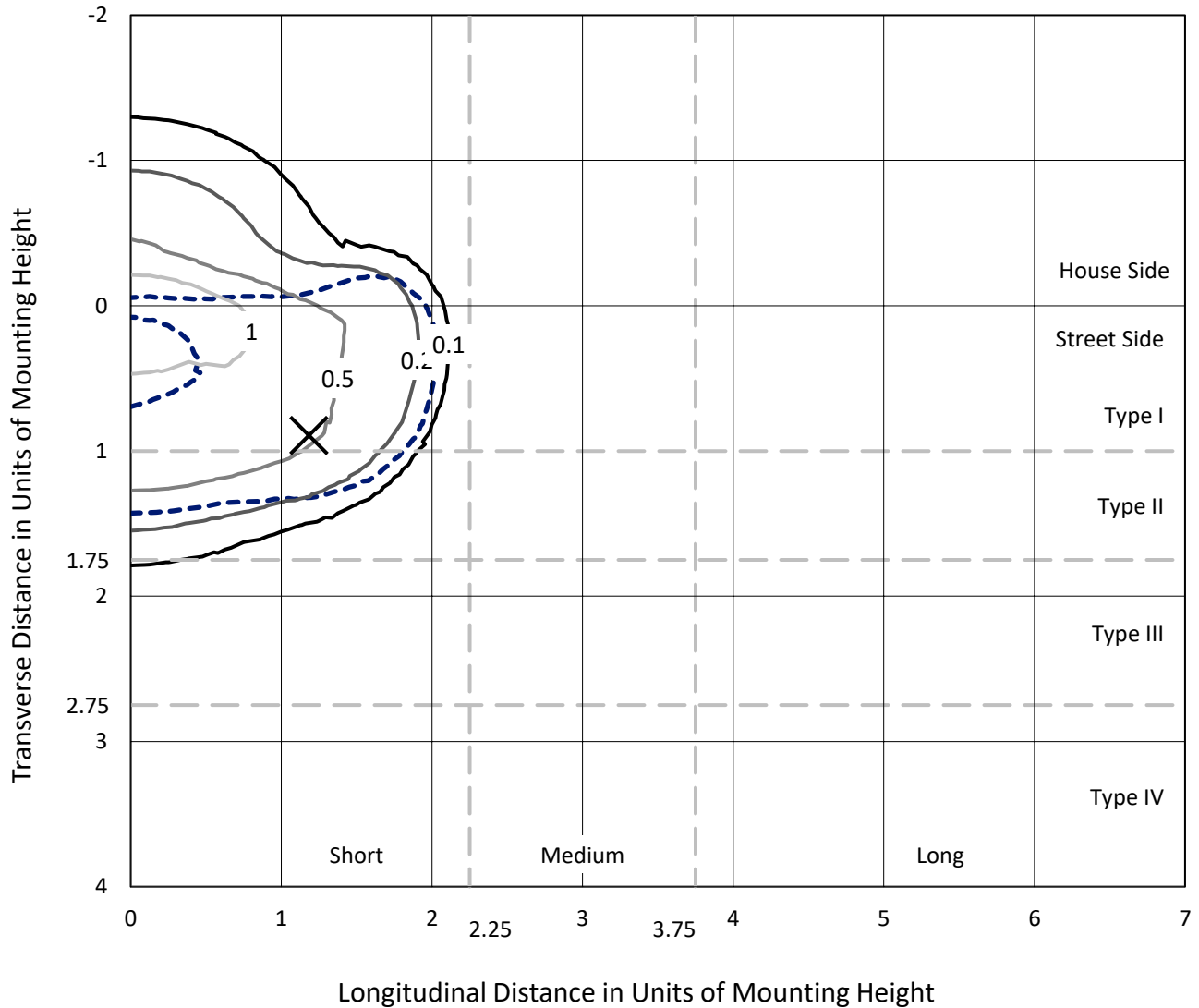
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

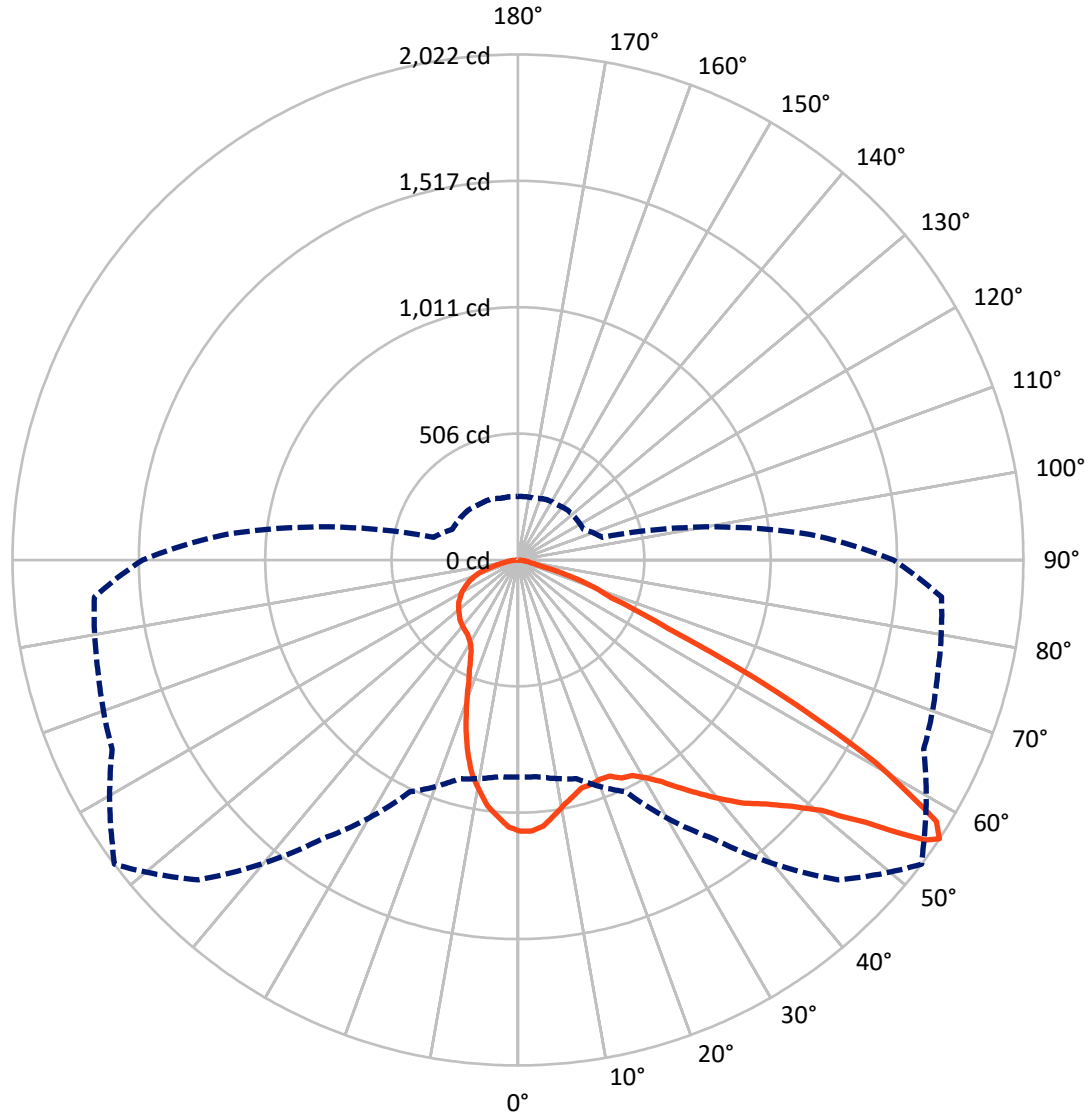
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	957.2	0.0	957.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2322.8	0.0	2322.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	3280.0	0.0	3280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	2.9
10°-20°	239.9	7.3
20°-30°	353.8	10.8
30°-40°	505.5	15.4
40°-50°	695.8	21.2
50°-60°	822.2	25.1
60°-70°	438.2	13.4
70°-80°	111.2	3.4
80°-90°	17.3	0.5
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°	3280.0	100.0
0°-180°	3280.0	100.0

Coefficient of Utilization



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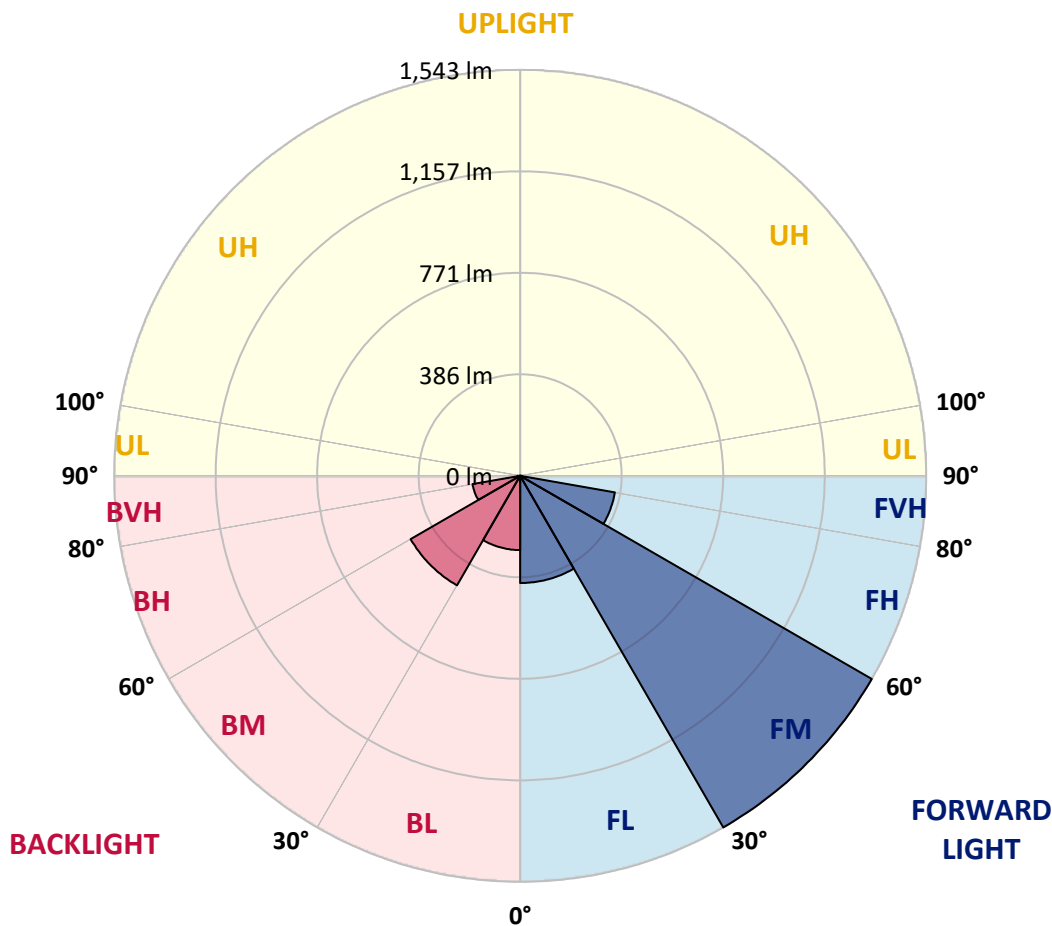
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.5	12.4			
FM (30°-60°)	1542.9	47.0			
FH (60°-80°)	365.5	11.1			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	282.3	8.6	B1/500		
BM (30°-60°)	480.7	14.7	B1/1000		
BH (60°-80°)	183.8	5.6	B1/500		G1/500
BVH (80°-90°)	10.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1071.7	1062.4	1067.9	1065.8	1083.0	1088.1	1085.6	1087.7	1097.4	1092.7	1083.0
5°	1001.4	1014.5	1017.0	1023.3	1033.4	1053.2	1068.7	1073.0	1077.6	1099.0	1096.9
7.5°	937.5	946.3	941.7	960.2	982.1	1014.0	1033.0	1036.3	1078.8	1090.6	1099.5
10°	897.1	888.2	909.3	914.3	939.1	975.8	998.5	1012.4	1051.1	1097.8	1103.2
12.5°	859.6	856.7	869.3	883.6	911.4	949.2	972.4	977.9	1037.6	1086.8	1112.5
15°	831.9	828.5	841.1	851.6	884.0	917.7	947.1	962.7	1022.9	1080.5	1104.5
17.5°	810.0	809.6	816.7	835.6	868.9	897.1	944.6	945.5	1015.3	1090.2	1111.2
20°	808.7	808.3	809.6	830.6	860.9	895.4	936.6	944.2	1015.3	1083.5	1111.7
22.5°	819.2	812.5	820.1	833.5	855.4	898.3	939.6	956.4	1039.7	1116.7	1130.6
25°	836.1	837.7	842.0	846.6	859.2	905.1	965.7	979.5	1068.3	1145.3	1156.7
27.5°	866.8	865.9	867.6	870.1	881.1	911.4	976.2	1011.9	1128.1	1196.2	1184.9
30°	911.8	908.9	915.6	924.4	914.3	931.6	1011.1	1038.0	1183.6	1247.6	1216.4
32.5°	952.6	963.6	976.2	980.0	967.8	971.1	1057.4	1084.7	1229.9	1310.7	1255.1
35°	1003.5	1012.4	1029.2	1041.0	1038.9	1028.8	1120.5	1156.7	1296.8	1357.0	1296.0
37.5°	1053.2	1063.7	1091.5	1126.4	1107.0	1102.4	1187.8	1217.7	1317.4	1381.8	1325.8
40°	1133.1	1132.7	1180.7	1198.8	1216.0	1208.0	1257.7	1267.8	1328.4	1376.3	1326.7
42.5°	1227.0	1221.1	1269.9	1298.1	1320.4	1321.2	1330.5	1327.1	1333.4	1348.6	1317.8
45°	1316.2	1328.8	1378.0	1428.5	1450.8	1453.3	1391.9	1385.6	1342.2	1340.6	1301.0
47.5°	1425.1	1428.1	1468.5	1535.0	1586.7	1569.0	1471.4	1457.5	1381.0	1394.0	1329.2
50°	1431.4	1453.3	1489.5	1567.8	1726.8	1722.2	1574.5	1548.4	1443.2	1469.7	1407.9
52.5°	1299.3	1294.3	1337.2	1465.1	1716.3	1874.5	1745.3	1683.1	1577.0	1556.8	1535.4
55°	990.1	1001.8	1039.7	1168.9	1490.4	1876.6	1978.0	1927.1	1720.1	1685.6	1660.8
56°	868.5	870.1	905.9	1023.7	1359.9	1809.7	2022.2	1981.0	1791.2	1738.6	1700.7
57.5°	719.9	710.3	728.8	793.1	1147.8	1668.3	1973.8	2014.2	1874.5	1795.8	1743.2
60°	566.8	564.7	557.1	568.9	725.4	1256.8	1643.1	1734.0	1866.1	1742.0	1669.6
62.5°	462.8	452.3	467.5	484.3	504.1	779.7	1154.6	1208.0	1481.5	1390.6	1254.3
65°	358.9	353.9	372.8	427.5	439.3	495.2	657.7	698.9	874.8	859.2	756.5
67.5°	247.0	247.8	264.2	347.6	407.3	402.3	402.7	424.1	456.5	339.1	295.4
70°	156.5	156.1	164.9	223.8	327.8	331.1	314.3	308.0	292.0	176.7	187.2
72.5°	100.6	97.6	102.2	123.7	169.6	196.1	202.0	205.8	169.1	138.9	150.6
75°	56.8	53.9	52.2	57.6	66.9	77.4	85.0	87.5	98.0	105.2	111.5
77.5°	17.3	15.6	18.9	25.2	33.2	44.6	54.3	56.0	66.1	74.5	80.8
80°	7.6	8.4	11.8	16.8	23.6	31.6	38.3	40.8	47.5	53.9	55.5
82.5°	4.6	5.0	8.0	11.4	16.4	22.3	27.3	28.2	34.9	40.0	41.2
85°	1.7	2.1	4.2	6.7	10.5	14.3	14.3	15.6	14.3	14.3	15.6
87.5°	0.0	0.0	0.4	0.8	0.8	1.3	1.7	1.7	2.1	2.5	2.9
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°	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2	1085.2
2.5°	1088.1	1086.0	1082.6	1070.4	1069.2	1065.4	1044.3	1041.0	1044.3	1034.2	1035.1
5°	1086.0	1092.3	1067.1	1054.9	1032.1	1015.7	996.8	987.1	969.9	958.9	971.1
7.5°	1095.3	1092.7	1061.2	1034.7	1000.6	958.9	925.7	906.7	876.5	868.0	874.3
10°	1091.9	1078.4	1041.4	1006.5	942.1	905.5	851.6	799.5	770.8	756.1	754.0
12.5°	1087.3	1083.5	1021.6	961.4	893.7	816.7	741.0	691.7	645.0	624.8	627.8
15°	1092.7	1060.7	984.6	908.4	818.4	717.4	635.8	572.2	539.8	526.8	526.8
17.5°	1090.2	1049.8	966.9	849.1	735.1	615.6	526.0	487.7	474.2	474.2	478.0
20°	1091.5	1057.0	931.2	789.8	636.6	518.4	453.2	439.3	445.2	447.3	449.4
22.5°	1098.6	1033.4	896.2	724.6	545.3	443.5	411.5	411.9	422.4	433.8	431.7
25°	1107.5	1024.1	853.7	659.8	475.5	406.9	396.8	395.5	403.5	409.4	410.2
27.5°	1099.9	1008.2	810.4	579.0	418.2	382.5	380.4	381.2	383.7	395.5	391.7
30°	1124.7	1012.8	756.1	511.2	386.7	374.5	372.0	370.7	374.5	377.8	374.9
32.5°	1155.4	996.4	715.7	446.0	371.1	368.6	363.5	361.9	364.0	360.6	362.3
35°	1168.9	993.4	663.1	399.3	358.9	356.8	353.9	353.4	353.9	350.9	348.4
37.5°	1176.5	1007.3	603.0	377.8	351.3	353.4	346.7	345.9	338.3	340.0	341.2
40°	1189.5	985.9	554.1	357.2	346.7	342.5	336.6	335.3	330.3	327.4	330.3
42.5°	1170.6	979.5	506.2	348.4	340.0	335.3	331.1	324.0	322.3	319.8	318.1
45°	1155.4	943.4	463.3	337.5	332.0	329.5	321.5	313.9	307.6	310.1	306.3
47.5°	1166.8	930.7	420.8	328.2	321.0	318.1	310.1	304.2	297.9	295.0	294.1
50°	1212.2	954.3	385.0	321.5	311.8	310.1	299.6	292.9	287.0	284.9	285.7
52.5°	1320.8	1018.7	360.6	307.6	303.0	295.4	289.5	281.1	277.3	270.6	274.8
55°	1458.4	1123.4	354.3	294.5	292.0	285.3	277.3	271.0	263.8	258.3	257.1
56°	1502.6	1173.5	349.2	289.5	285.3	281.5	271.0	267.2	255.8	254.6	253.7
57.5°	1538.3	1217.7	350.1	279.8	275.6	272.2	265.9	256.7	249.1	244.5	246.6
60°	1457.5	1139.9	334.1	265.1	264.2	257.9	249.1	244.9	235.6	230.2	228.9
62.5°	1083.5	773.8	271.0	246.1	245.7	239.0	228.9	224.3	222.6	215.0	215.0
65°	624.0	485.1	234.4	230.6	227.2	220.5	210.4	206.6	202.4	199.9	197.8
67.5°	266.3	251.6	212.9	212.5	208.7	200.3	190.2	184.3	178.8	173.8	176.3
70°	193.1	196.1	192.3	190.2	185.6	175.0	166.2	159.0	150.6	147.3	149.8
72.5°	153.2	159.5	164.9	165.4	159.9	147.7	138.0	128.3	119.1	114.4	116.6
75°	116.1	120.3	125.8	127.1	119.1	110.7	101.4	91.3	84.2	78.7	79.5
77.5°	83.7	82.9	87.9	87.1	83.3	77.4	69.0	59.7	51.8	46.7	47.1
80°	57.2	58.5	61.4	61.0	56.4	52.6	46.3	38.7	32.8	28.6	27.8
82.5°	40.0	42.1	44.6	42.5	38.7	34.9	30.3	24.8	20.2	16.8	16.0
85°	14.3	16.4	18.9	20.2	21.5	20.6	17.3	13.9	10.1	8.4	8.0
87.5°	2.9	3.4	3.8	3.8	3.8	3.4	2.9	2.9	2.5	1.3	1.3
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)