

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: P526438

Luminaire Tested: **GALN-SA1B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526438
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-SA1B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 3588 lumens
Efficiency: N/A
Efficacy: 81.5 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

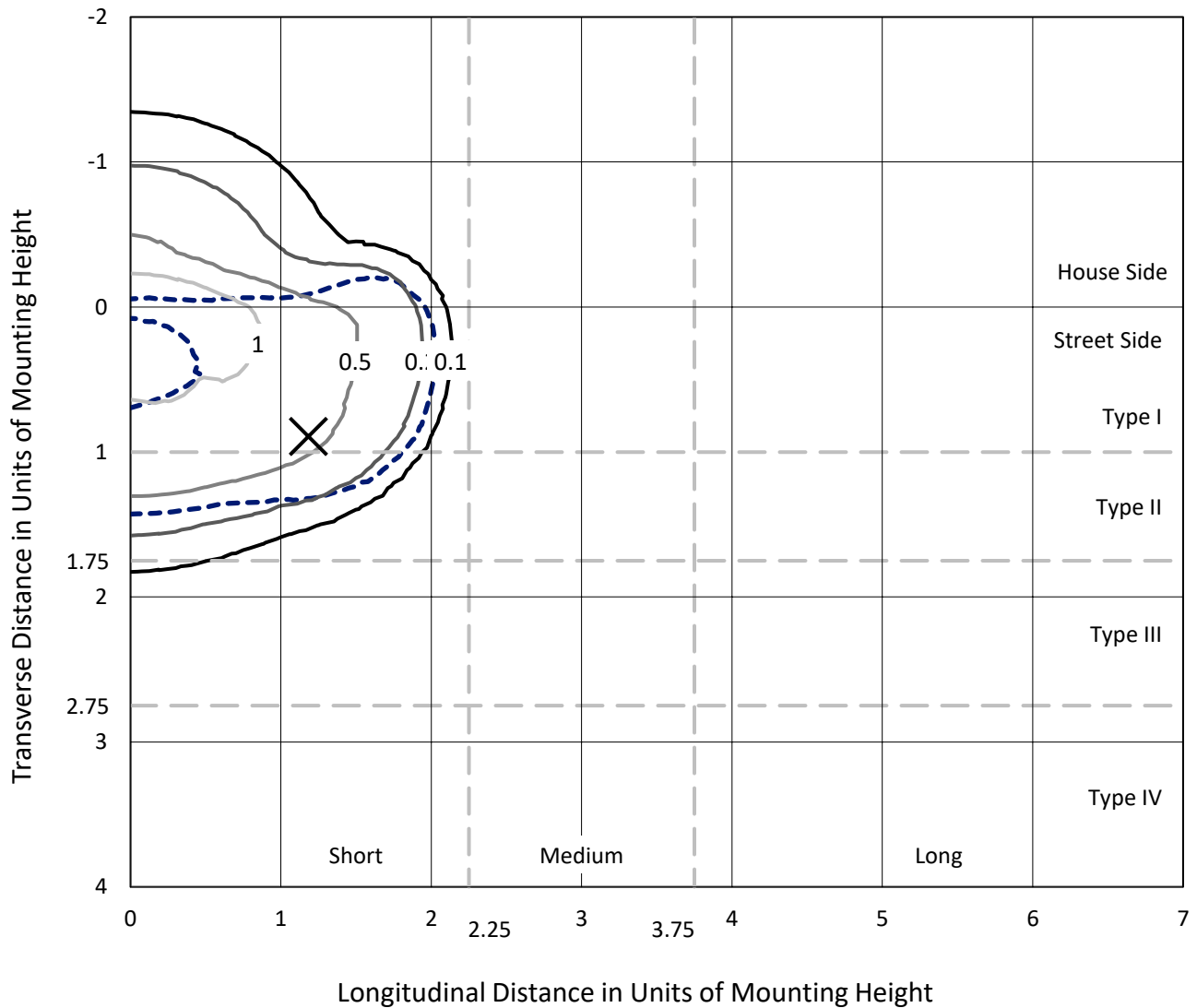
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

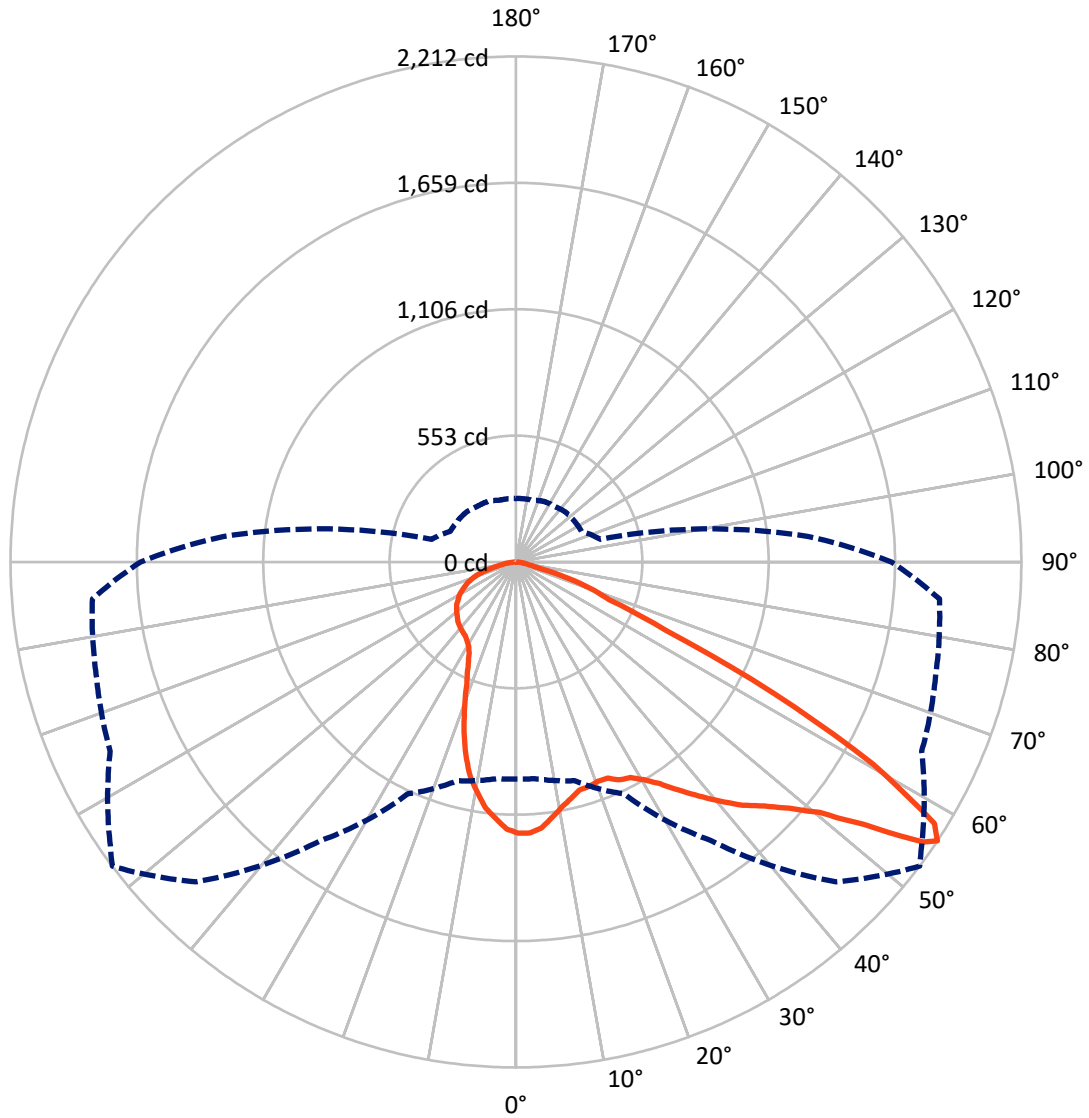
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	1047.1	0.0	1047.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2540.9	0.0	2540.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	3588.0	0.0	3588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	2.9
10°-20°	262.5	7.3
20°-30°	387.0	10.8
30°-40°	553.0	15.4
40°-50°	761.1	21.2
50°-60°	899.4	25.1
60°-70°	479.3	13.4
70°-80°	121.6	3.4
80°-90°	19.0	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°	3588.0	100.0
0°-180°	3588.0	100.0

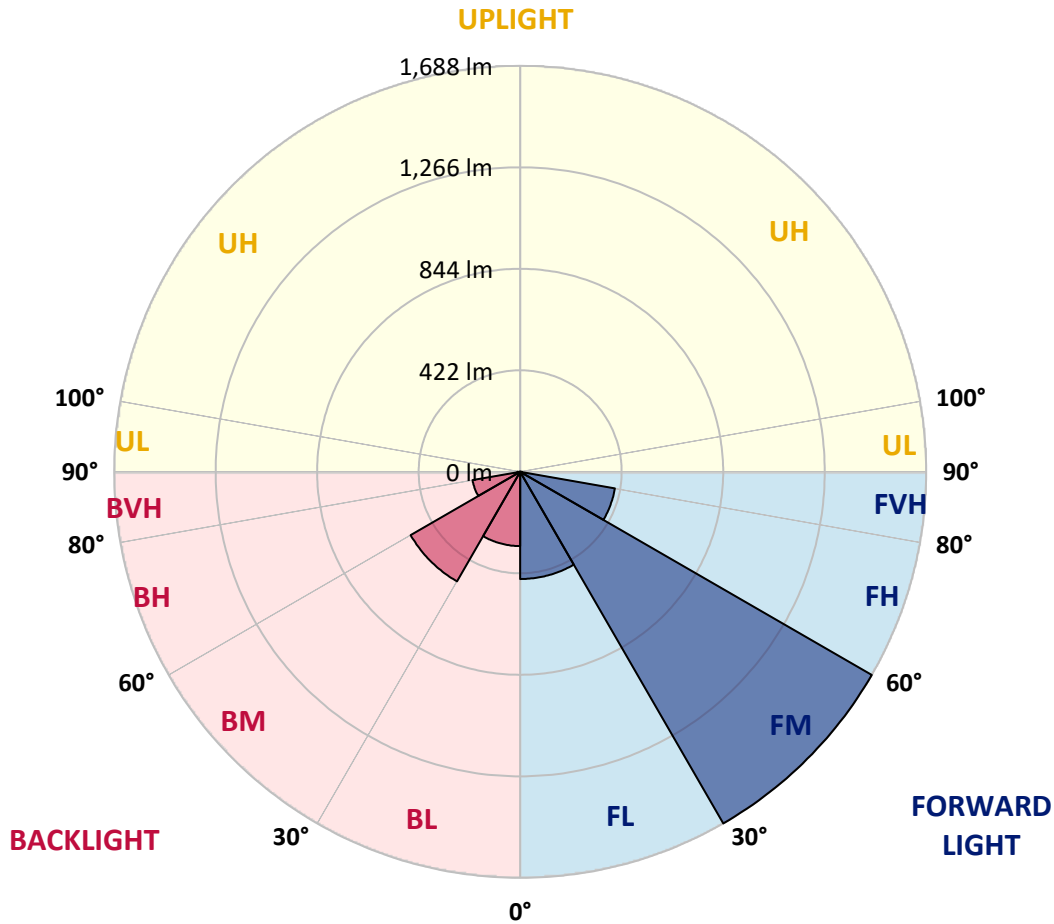


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.8	12.4			
FM (30°-60°)	1687.7	47.0			
FH (60°-80°)	399.8	11.1			G0/660
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	308.8	8.6	B1/500		
BM (30°-60°)	525.8	14.7	B1/1000		
BH (60°-80°)	201.1	5.6	B1/500		G1/500
BVH (80°-90°)	11.3	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°	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1172.3	1162.2	1168.2	1165.9	1184.8	1190.3	1187.5	1189.8	1200.4	1195.3	1184.8
5°	1095.5	1109.7	1112.5	1119.4	1130.4	1152.1	1169.1	1173.7	1178.8	1202.2	1199.9
7.5°	1025.5	1035.2	1030.1	1050.3	1074.3	1109.3	1130.0	1133.7	1180.1	1193.0	1202.7
10°	981.3	971.6	994.7	1000.2	1027.3	1067.4	1092.2	1107.4	1149.8	1200.9	1206.8
12.5°	940.3	937.1	950.9	966.6	997.0	1038.4	1063.7	1069.7	1135.0	1188.9	1217.0
15°	910.0	906.3	920.1	931.6	967.0	1003.9	1036.1	1053.1	1118.9	1182.0	1208.2
17.5°	886.0	885.6	893.4	914.1	950.5	981.3	1033.3	1034.2	1110.6	1192.6	1215.6
20°	884.7	884.2	885.6	908.6	941.7	979.5	1024.6	1032.9	1110.6	1185.2	1216.0
22.5°	896.2	888.8	897.1	911.8	935.7	982.7	1027.8	1046.2	1137.3	1221.6	1236.8
25°	914.6	916.4	921.0	926.1	939.9	990.1	1056.3	1071.5	1168.6	1252.9	1265.3
27.5°	948.2	947.2	949.1	951.9	963.8	997.0	1067.8	1107.0	1234.0	1308.6	1296.1
30°	997.4	994.2	1001.6	1011.2	1000.2	1019.1	1106.0	1135.5	1294.8	1364.7	1330.7
32.5°	1042.1	1054.0	1067.8	1072.0	1058.6	1062.3	1156.7	1186.6	1345.4	1433.8	1373.0
35°	1097.8	1107.4	1125.8	1138.7	1136.4	1125.4	1225.7	1265.3	1418.6	1484.4	1417.7
37.5°	1152.1	1163.6	1194.0	1232.2	1211.0	1205.9	1299.4	1332.0	1441.1	1511.5	1450.3
40°	1239.5	1239.1	1291.5	1311.3	1330.2	1321.5	1375.8	1386.8	1453.1	1505.6	1451.3
42.5°	1342.2	1335.7	1389.1	1420.0	1444.3	1445.3	1455.4	1451.7	1458.6	1475.2	1441.6
45°	1439.7	1453.6	1507.4	1562.6	1587.0	1589.8	1522.6	1515.7	1468.3	1466.4	1423.2
47.5°	1559.0	1562.2	1606.4	1679.1	1735.7	1716.4	1609.6	1594.4	1510.6	1524.9	1454.0
50°	1565.9	1589.8	1629.4	1715.0	1889.0	1883.9	1722.4	1693.8	1578.7	1607.7	1540.1
52.5°	1421.3	1415.8	1462.8	1602.7	1877.5	2050.5	1909.2	1841.1	1725.1	1703.0	1679.5
55°	1083.0	1095.9	1137.3	1278.6	1630.3	2052.8	2163.8	2108.1	1881.6	1843.9	1816.7
56°	950.0	951.9	991.0	1119.9	1487.6	1979.6	2212.1	2167.0	1959.4	1901.9	1860.4
57.5°	787.5	776.9	797.2	867.6	1255.6	1825.0	2159.2	2203.3	2050.5	1964.5	1906.9
60°	620.0	617.7	609.4	622.3	793.5	1374.8	1797.4	1896.8	2041.3	1905.5	1826.4
62.5°	506.3	494.8	511.4	529.8	551.4	852.9	1263.0	1321.5	1620.6	1521.2	1372.1
65°	392.6	387.1	407.8	467.6	480.5	541.7	719.4	764.5	956.9	939.9	827.6
67.5°	270.2	271.1	289.1	380.2	445.5	440.0	440.5	464.0	499.4	371.0	323.1
70°	171.2	170.8	180.4	244.9	358.6	362.2	343.8	336.9	319.4	193.3	204.8
72.5°	110.0	106.8	111.8	135.3	185.5	214.5	220.9	225.1	185.0	151.9	164.8
75°	62.1	58.9	57.1	63.1	73.2	84.7	93.0	95.7	107.2	115.1	122.0
77.5°	18.9	17.0	20.7	27.6	36.4	48.8	59.4	61.2	72.3	81.5	88.4
80°	8.3	9.2	12.9	18.4	25.8	34.5	41.9	44.6	52.0	58.9	60.8
82.5°	5.1	5.5	8.7	12.4	18.0	24.4	29.9	30.8	38.2	43.7	45.1
85°	1.8	2.3	4.6	7.4	11.5	15.6	15.6	17.0	15.6	15.6	17.0
87.5°	0.0	0.0	0.5	0.9	0.9	1.4	1.8	1.8	2.3	2.8	3.2
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°	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1190.3	1188.0	1184.3	1170.9	1169.6	1165.4	1142.4	1138.7	1142.4	1131.4	1132.3
5°	1188.0	1194.9	1167.3	1153.9	1129.1	1111.1	1090.4	1079.8	1060.9	1049.0	1062.3
7.5°	1198.1	1195.3	1160.8	1131.8	1094.5	1049.0	1012.6	991.9	958.8	949.5	956.5
10°	1194.4	1179.7	1139.2	1101.0	1030.6	990.5	931.6	874.5	843.2	827.1	824.8
12.5°	1189.4	1185.2	1117.6	1051.7	977.6	893.4	810.5	756.7	705.6	683.5	686.7
15°	1195.3	1160.4	1077.0	993.7	895.2	784.8	695.5	626.0	590.5	576.3	576.3
17.5°	1192.6	1148.4	1057.7	928.8	804.1	673.4	575.3	533.5	518.7	518.7	522.9
20°	1194.0	1156.2	1018.6	863.9	696.4	567.1	495.7	480.5	487.0	489.3	491.6
22.5°	1201.8	1130.4	980.4	792.6	596.5	485.1	450.1	450.6	462.1	474.5	472.2
25°	1211.4	1120.3	933.9	721.7	520.1	445.1	434.0	432.7	441.4	447.8	448.8
27.5°	1203.2	1102.8	886.5	633.3	457.5	418.4	416.1	417.0	419.8	432.7	428.5
30°	1230.3	1107.9	827.1	559.2	423.0	409.6	406.9	405.5	409.6	413.3	410.1
32.5°	1263.9	1089.9	782.9	487.9	406.0	403.2	397.7	395.8	398.1	394.5	396.3
35°	1278.6	1086.7	725.4	436.8	392.6	390.3	387.1	386.6	387.1	383.9	381.1
37.5°	1286.9	1101.9	659.6	413.3	384.3	386.6	379.3	378.3	370.1	371.9	373.3
40°	1301.2	1078.4	606.2	390.8	379.3	374.7	368.2	366.8	361.3	358.1	361.3
42.5°	1280.5	1071.5	553.7	381.1	371.9	366.8	362.2	354.4	352.6	349.8	348.0
45°	1263.9	1031.9	506.8	369.1	363.2	360.4	351.7	343.4	336.5	339.2	335.1
47.5°	1276.3	1018.1	460.3	359.0	351.2	348.0	339.2	332.8	325.9	322.7	321.7
50°	1326.1	1043.9	421.2	351.7	341.1	339.2	327.7	320.4	313.9	311.6	312.5
52.5°	1444.8	1114.3	394.5	336.5	331.4	323.1	316.7	307.5	303.3	296.0	300.6
55°	1595.3	1228.9	387.6	322.2	319.4	312.1	303.3	296.4	288.6	282.6	281.2
56°	1643.6	1283.7	382.0	316.7	312.1	307.9	296.4	292.3	279.8	278.5	277.5
57.5°	1682.8	1332.0	382.9	306.1	301.5	297.8	290.9	280.8	272.5	267.4	269.7
60°	1594.4	1246.9	365.5	290.0	289.1	282.1	272.5	267.9	257.8	251.8	250.4
62.5°	1185.2	846.4	296.4	269.3	268.8	261.4	250.4	245.3	243.5	235.2	235.2
65°	682.6	530.7	256.4	252.2	248.5	241.2	230.1	226.0	221.4	218.6	216.3
67.5°	291.4	275.2	232.9	232.4	228.3	219.1	208.0	201.6	195.6	190.1	192.9
70°	211.3	214.5	210.3	208.0	203.0	191.5	181.8	174.0	164.8	161.1	163.9
72.5°	167.5	174.4	180.4	180.9	174.9	161.6	151.0	140.4	130.3	125.2	127.5
75°	127.0	131.6	137.6	139.0	130.3	121.1	110.9	99.9	92.1	86.1	87.0
77.5°	91.6	90.7	96.2	95.3	91.1	84.7	75.5	65.4	56.6	51.1	51.6
80°	62.6	64.0	67.2	66.7	61.7	57.5	50.6	42.3	35.9	31.3	30.4
82.5°	43.7	46.0	48.8	46.5	42.3	38.2	33.1	27.2	22.1	18.4	17.5
85°	15.6	18.0	20.7	22.1	23.5	22.6	18.9	15.2	11.0	9.2	8.7
87.5°	3.2	3.7	4.1	4.1	4.1	3.7	3.2	3.2	2.8	1.4	1.4
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)