

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: P526440

Luminaire Tested: **GALN-SA1B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
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-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

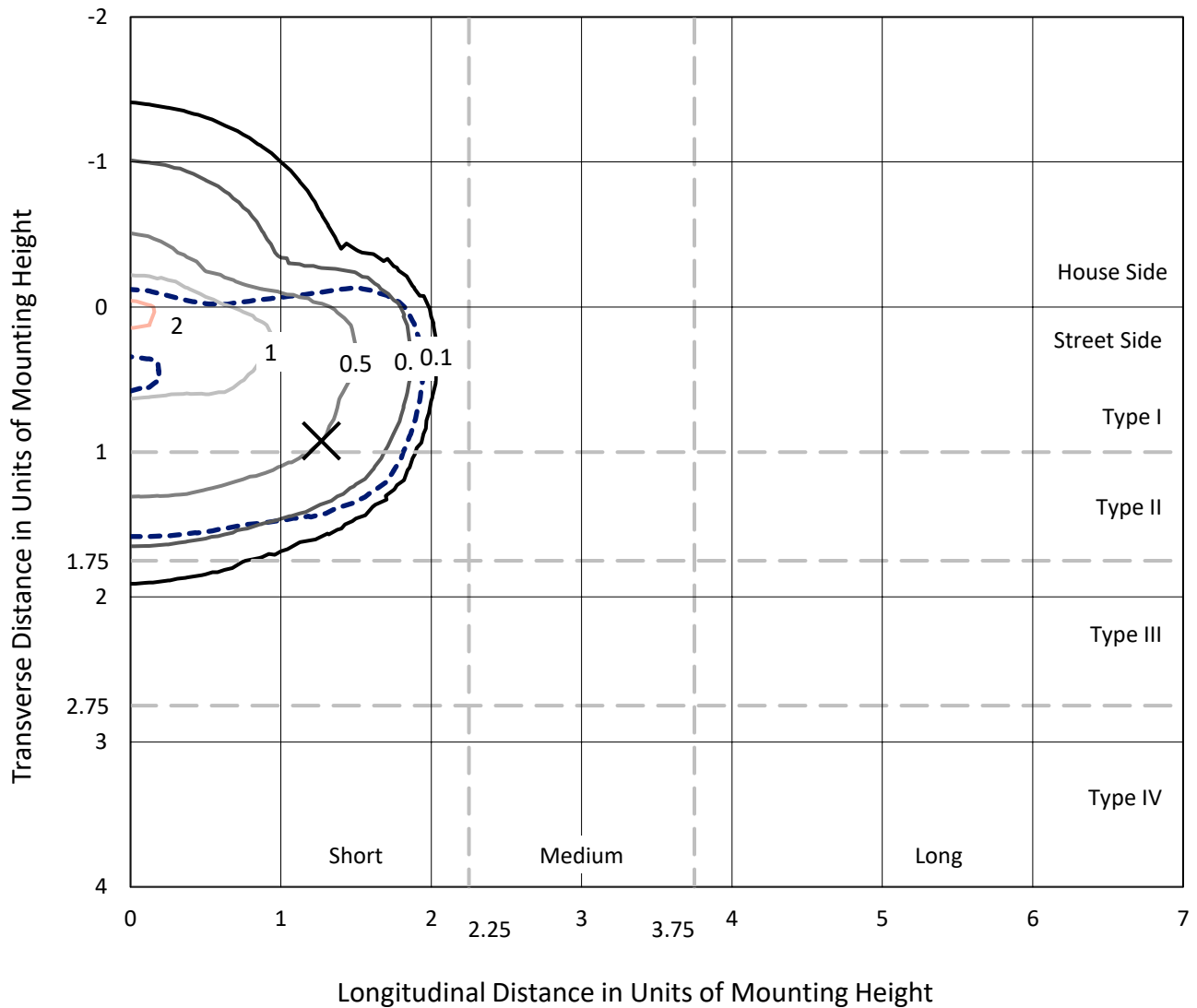
Lumens per Lamp: N/A  
Luminaire Lumens: 3581 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

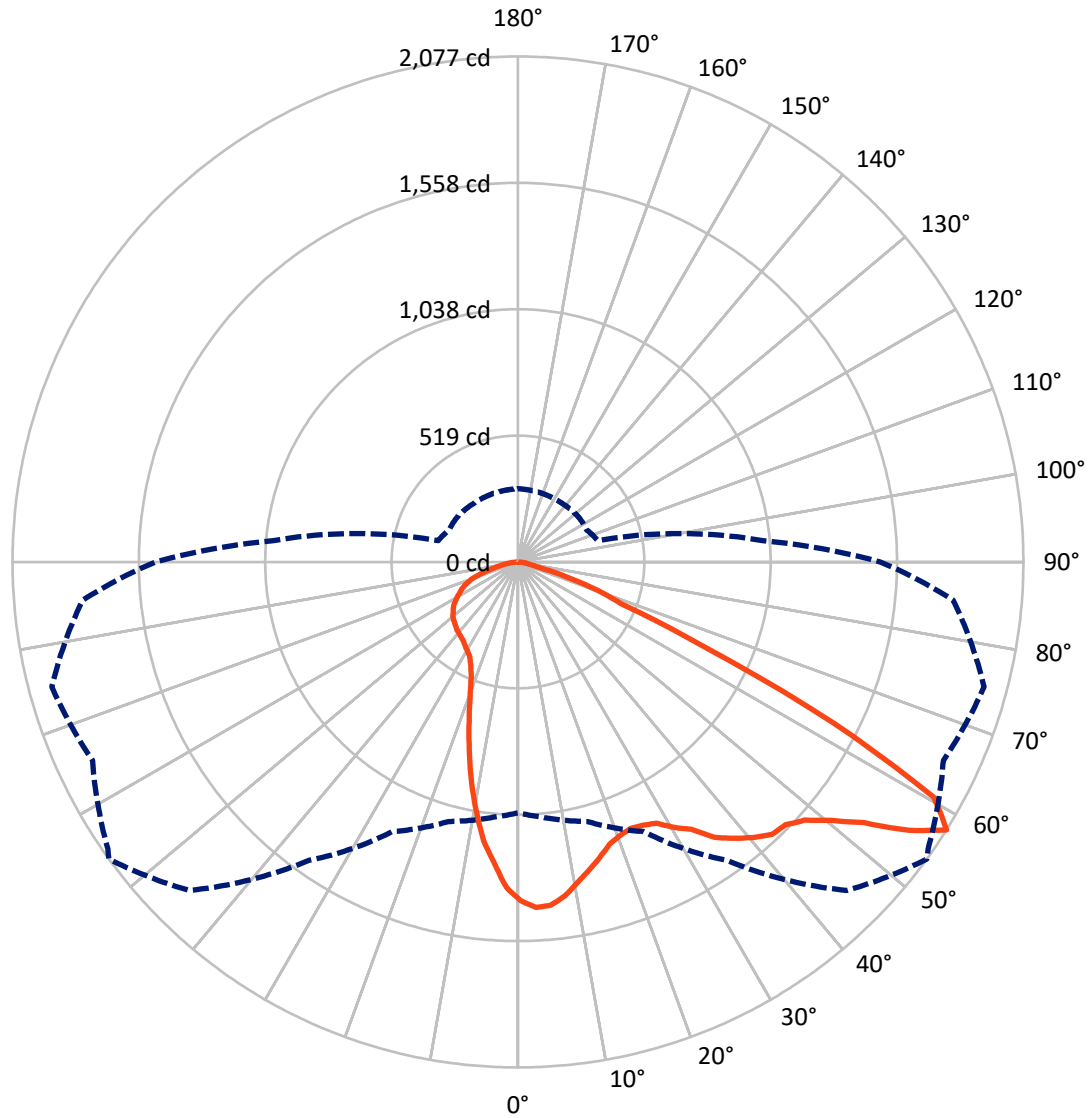
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	990.7	0.0	990.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	2590.3	0.0	2590.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	3581.0	0.0	3581.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.0	3.4
10°-20°	277.9	7.8
20°-30°	390.5	10.9
30°-40°	545.9	15.2
40°-50°	739.1	20.6
50°-60°	900.2	25.1
60°-70°	468.9	13.1
70°-80°	120.1	3.4
80°-90°	18.3	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°	3581.0	100.0
0°-180°	3581.0	100.0

**Coefficient of Utilization**



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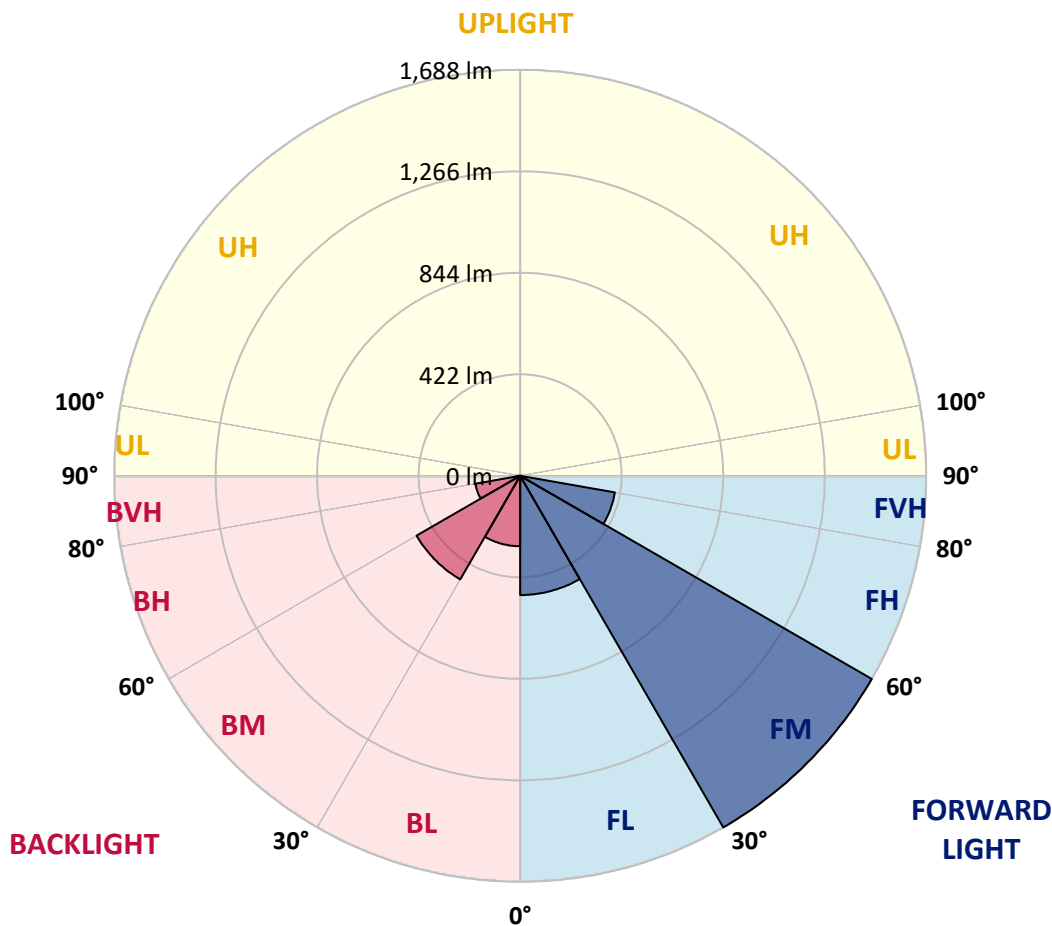
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.7	13.8			
FM (30°-60°)	1688.0	47.1			
FH (60°-80°)	399.7	11.2			G0/660
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	292.8	8.2	B1/500		
BM (30°-60°)	497.2	13.9	B1/1000		
BH (60°-80°)	189.3	5.3	B1/500		G1/500
BVH (80°-90°)	11.4	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°	54°	55°	65°	75°	85°
0°	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9
2.5°	1431.5	1426.0	1426.9	1434.2	1425.0	1421.4	1421.4	1403.4	1404.8	1392.4	1389.1
5°	1398.3	1385.4	1394.2	1405.2	1407.1	1410.8	1416.7	1412.1	1399.3	1385.9	1364.3
7.5°	1311.8	1323.3	1326.5	1334.4	1350.9	1366.1	1385.0	1372.1	1371.6	1358.3	1345.4
10°	1235.9	1229.0	1246.4	1258.0	1285.6	1310.9	1339.9	1338.5	1345.4	1330.2	1308.1
12.5°	1160.4	1154.8	1163.1	1189.4	1228.0	1264.9	1299.4	1286.5	1323.3	1320.5	1273.1
15°	1080.3	1084.4	1096.4	1120.8	1171.4	1215.6	1259.3	1259.8	1292.5	1303.5	1240.0
17.5°	1024.1	1019.5	1034.7	1071.1	1116.2	1169.1	1218.8	1229.0	1279.1	1285.6	1229.9
20°	982.2	988.7	1008.5	1026.9	1078.9	1142.9	1199.0	1202.7	1276.4	1293.9	1213.8
22.5°	972.1	968.4	974.9	1004.8	1047.6	1117.1	1188.4	1202.3	1275.9	1291.1	1183.4
25°	961.5	973.5	973.0	1003.0	1034.3	1096.4	1197.2	1212.4	1300.3	1305.4	1187.5
27.5°	985.5	984.1	997.0	999.3	1037.9	1101.9	1215.6	1227.1	1340.8	1336.7	1190.8
30°	1009.4	1002.5	1010.3	1037.5	1055.4	1133.7	1266.2	1265.3	1393.3	1390.5	1200.9
32.5°	1038.9	1035.6	1040.7	1064.6	1095.0	1176.0	1309.0	1336.2	1446.7	1464.2	1235.9
35°	1044.4	1057.7	1069.7	1101.9	1145.2	1244.6	1389.6	1412.1	1508.3	1563.1	1302.6
37.5°	1079.4	1084.4	1112.5	1169.6	1209.2	1336.2	1440.7	1455.0	1564.5	1626.6	1373.0
40°	1116.6	1122.6	1165.0	1224.8	1279.1	1396.0	1488.6	1493.2	1582.5	1675.4	1419.1
42.5°	1167.3	1172.8	1214.7	1289.7	1362.4	1447.1	1530.9	1536.0	1581.1	1731.6	1492.2
45°	1219.7	1233.1	1282.3	1367.5	1432.9	1507.0	1540.6	1561.3	1594.0	1781.8	1551.6
47.5°	1293.4	1305.8	1346.3	1429.6	1506.0	1559.4	1585.2	1605.5	1624.8	1825.5	1589.8
50°	1371.6	1373.9	1423.2	1498.7	1554.8	1618.8	1668.5	1675.4	1665.3	1876.1	1654.7
52.5°	1429.2	1436.5	1474.7	1548.4	1632.2	1710.9	1779.0	1786.4	1766.6	1895.0	1676.8
55°	1333.9	1329.8	1391.9	1489.9	1684.2	1848.0	1947.0	1952.5	1840.2	1953.4	1749.1
57.5°	1031.0	1050.8	1103.8	1222.0	1496.4	1908.8	2076.8	2057.0	1928.6	1982.9	1795.1
60°	749.3	744.7	780.2	859.3	1127.7	1645.0	1963.6	1983.8	1856.3	1787.3	1480.3
62.5°	610.3	603.9	606.7	609.4	727.7	1091.8	1453.6	1453.1	1429.6	1284.6	998.4
65°	487.9	503.1	504.5	525.2	540.4	652.2	842.3	887.4	772.8	633.8	459.8
67.5°	367.8	362.2	380.7	454.3	482.8	470.9	459.8	464.9	330.5	238.4	224.6
70°	216.8	214.5	236.6	316.7	397.7	374.2	346.6	347.1	226.9	166.6	185.5
72.5°	118.8	118.3	122.9	160.6	226.0	234.7	208.0	214.5	135.3	134.9	145.0
75°	66.3	64.9	63.5	70.9	81.5	86.1	87.9	88.8	93.0	104.0	108.2
77.5°	24.4	23.5	23.5	27.2	34.5	43.3	54.8	55.7	65.8	75.5	79.6
80°	8.3	9.2	12.4	17.0	23.0	30.8	37.3	38.2	46.5	52.9	54.3
82.5°	5.1	5.5	8.3	12.0	16.6	21.6	27.6	28.1	34.5	38.7	40.5
85°	2.3	2.8	4.6	7.4	10.6	14.3	14.7	14.7	14.3	14.7	13.8
87.5°	0.0	0.0	0.9	0.9	0.9	1.4	1.8	1.4	2.3	2.8	2.8
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°	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9
2.5°	1379.5	1374.4	1358.8	1344.9	1340.8	1322.4	1295.2	1298.5	1278.7	1287.9	1278.2
5°	1360.6	1343.6	1303.5	1286.5	1241.8	1221.6	1207.8	1173.3	1157.1	1153.9	1140.1
7.5°	1312.3	1301.7	1251.5	1205.5	1158.1	1117.6	1065.6	1030.1	1004.8	997.9	977.6
10°	1274.1	1250.6	1181.1	1111.1	1043.5	973.0	905.4	852.4	826.7	796.7	786.6
12.5°	1236.3	1200.9	1107.0	1017.2	929.8	840.9	759.0	694.6	638.4	625.1	620.5
15°	1212.8	1151.2	1040.7	932.5	808.3	692.3	610.3	568.0	533.5	519.2	529.3
17.5°	1182.0	1110.2	977.2	833.1	696.4	589.6	521.0	494.8	482.4	483.8	479.6
20°	1143.3	1071.5	893.9	742.9	596.5	511.4	472.2	462.6	464.4	467.6	466.3
22.5°	1115.7	1024.6	833.6	650.8	515.5	468.1	452.0	445.1	451.1	453.8	451.5
25°	1094.6	984.5	760.4	569.4	468.6	443.7	436.3	435.9	445.1	448.8	446.5
27.5°	1075.2	947.3	687.7	507.2	437.3	424.8	422.5	428.1	434.0	437.7	441.0
30°	1063.7	918.7	619.5	455.2	421.6	415.6	411.5	416.6	419.8	423.5	421.6
32.5°	1074.8	898.5	553.7	425.8	408.7	402.7	408.3	405.0	410.6	413.8	408.7
35°	1109.3	880.5	506.8	410.1	394.0	396.3	397.2	395.8	398.1	395.4	401.4
37.5°	1143.3	874.1	463.5	396.8	387.1	387.1	386.2	383.4	388.0	387.1	389.9
40°	1186.6	878.2	426.7	382.5	380.7	379.7	376.1	375.6	373.7	374.2	375.1
42.5°	1224.4	887.4	405.5	373.3	374.7	376.5	369.6	364.1	366.4	361.8	361.8
45°	1264.4	895.7	386.6	366.8	365.5	365.0	359.5	356.3	354.4	354.9	359.0
47.5°	1327.5	907.7	372.4	358.1	359.0	352.1	350.7	346.6	348.4	351.2	351.7
50°	1372.1	933.0	361.3	348.0	351.2	346.6	338.3	336.5	336.5	341.1	340.1
52.5°	1403.4	968.4	350.7	336.9	338.3	334.6	331.9	327.7	325.0	331.4	334.6
55°	1499.1	1027.4	348.0	327.7	327.3	323.6	318.5	314.4	313.0	313.9	320.4
57.5°	1489.9	1008.9	339.2	311.6	310.7	305.6	300.6	299.2	298.7	299.6	301.5
60°	1209.6	745.2	302.9	293.2	291.8	290.9	285.8	280.3	277.6	280.3	278.0
62.5°	800.4	498.9	267.0	271.1	272.0	269.7	261.4	255.9	256.8	260.1	255.0
65°	393.1	293.2	242.1	253.2	254.1	247.6	239.8	233.4	230.1	232.9	230.6
67.5°	224.6	224.2	221.9	233.4	232.9	226.5	214.0	208.5	203.0	203.9	202.5
70°	190.6	194.2	198.8	205.7	205.3	197.9	183.2	179.0	171.2	170.3	168.0
72.5°	150.1	156.5	166.6	171.7	167.5	158.3	148.7	141.8	134.9	130.7	132.1
75°	111.4	120.6	126.1	129.3	122.9	117.8	110.0	101.7	93.4	89.8	88.4
77.5°	81.0	83.8	88.8	91.1	87.0	81.9	77.3	69.0	61.2	56.2	54.8
80°	56.6	58.5	62.1	62.1	62.1	59.8	53.9	45.6	40.5	35.9	35.0
82.5°	39.6	41.4	45.1	43.3	42.8	40.0	36.4	29.9	24.4	21.2	20.3
85°	13.8	15.2	18.4	22.1	23.5	23.0	20.7	16.6	12.9	10.6	9.7
87.5°	3.2	3.2	3.7	3.2	3.2	3.7	3.2	3.2	3.2	2.3	1.8
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)