

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: P450576

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

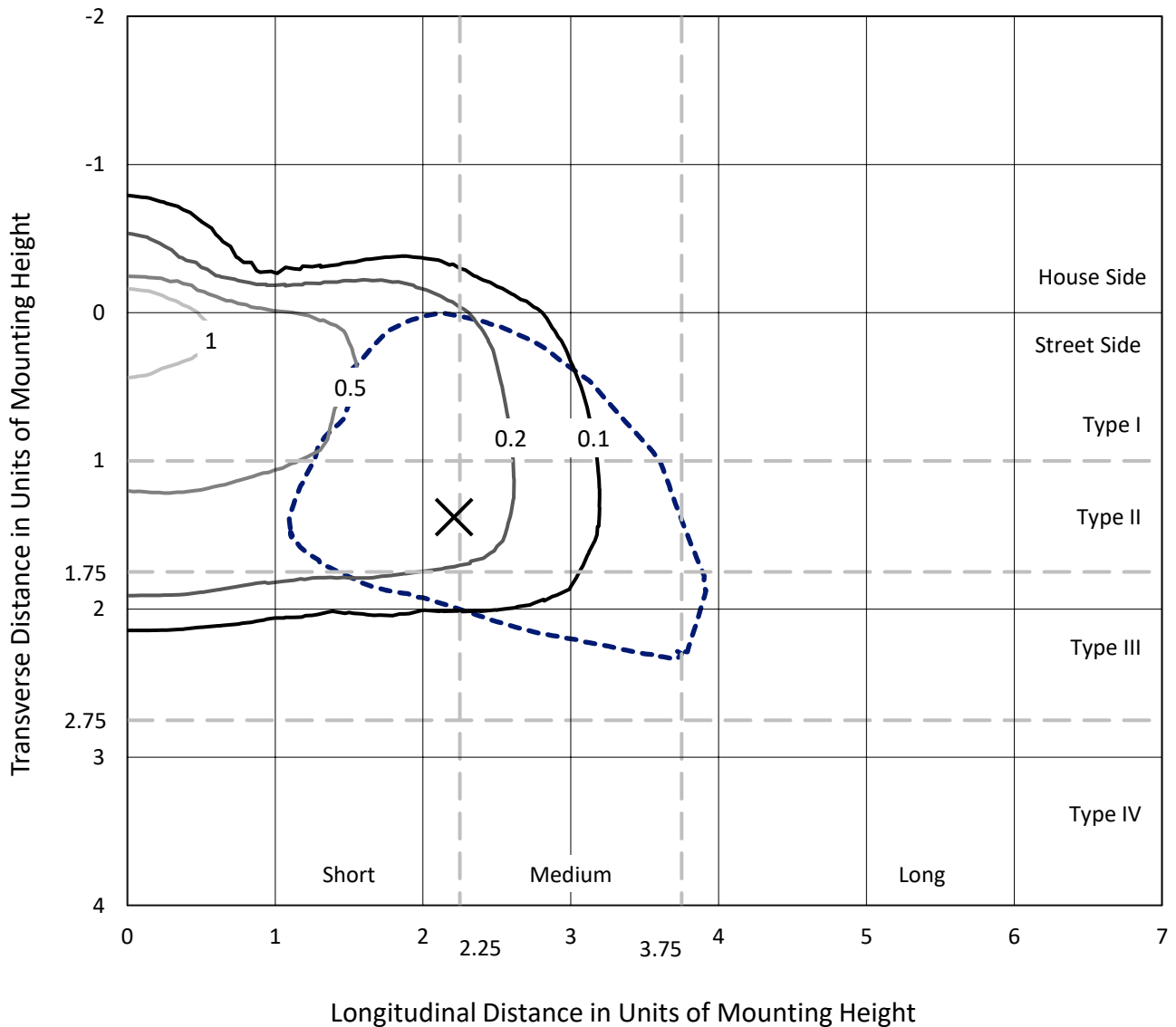
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450576
 CATALOG NUMBER: GALN-SA1B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

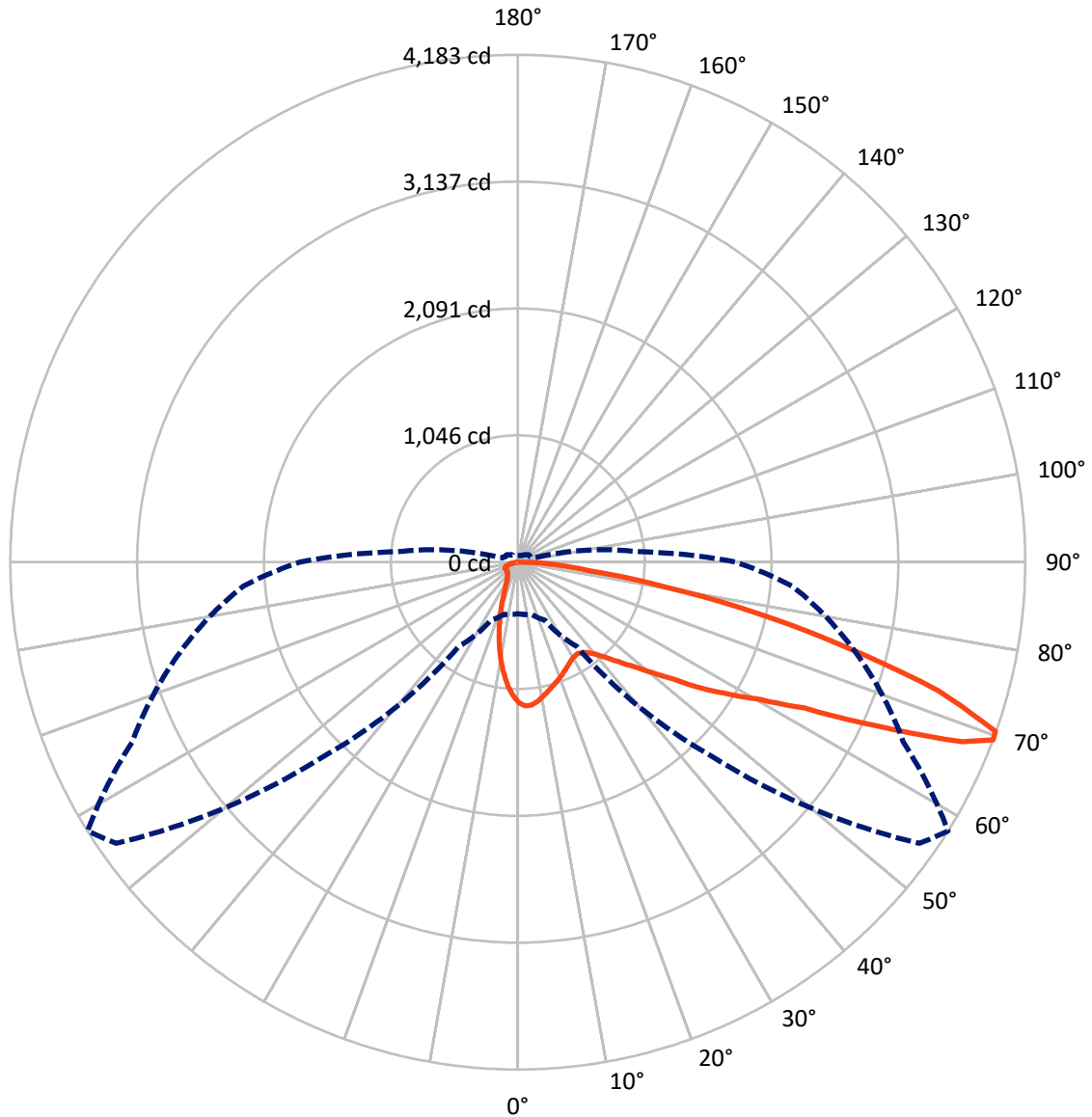
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P450576
CATALOG NUMBER: GALN-SA1B-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P450576

CATALOG NUMBER: GALN-SA1B-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.8	0.0	614.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3580.2	0.0	3580.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	4195.0	0.0	4195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	2.3
10°-20°	216.2	5.2
20°-30°	279.3	6.7
30°-40°	362.8	8.6
40°-50°	527.4	12.6
50°-60°	841.6	20.1
60°-70°	1124.2	26.8
70°-80°	648.1	15.4
80°-90°	97.1	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°	4195.0	100.0
0°-180°	4195.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450576

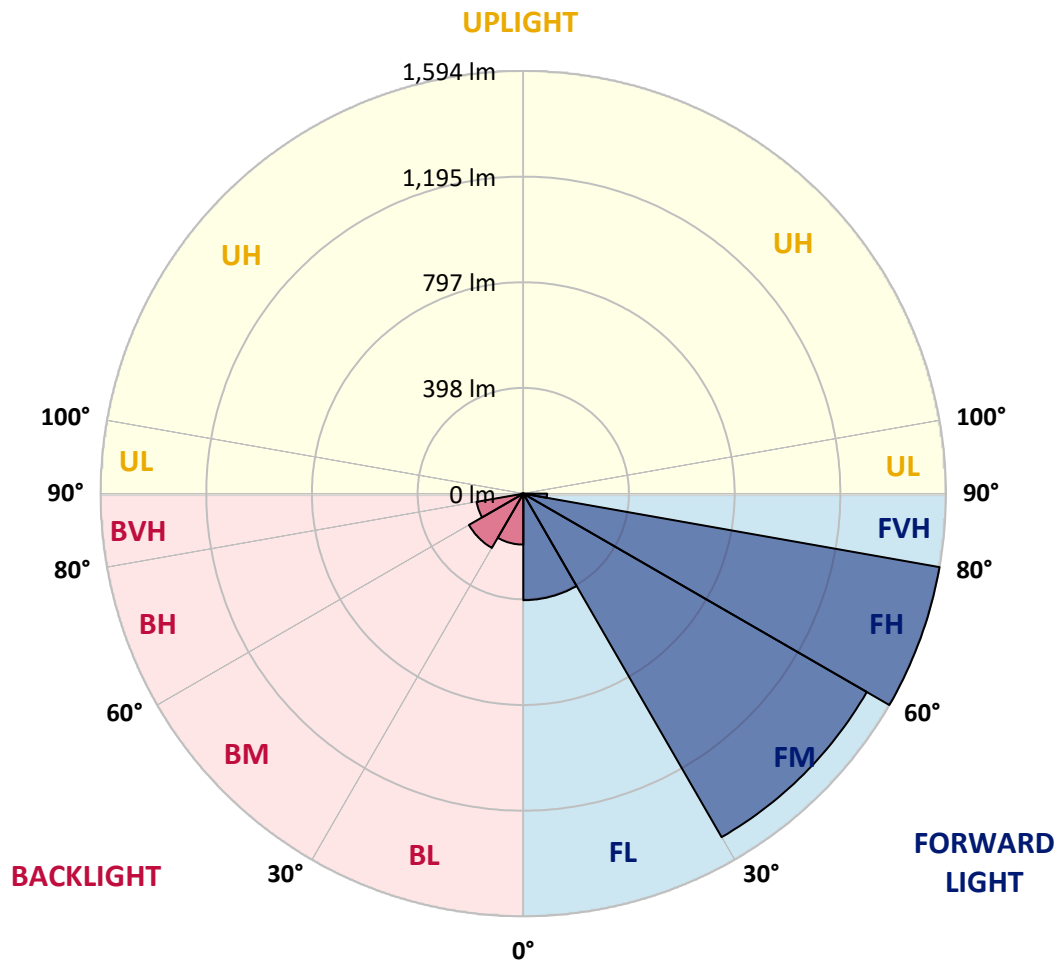
CATALOG NUMBER: GALN-SA1B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.8	9.6			
FM (30°-60°)	1495.3	35.6			
FH (60°-80°)	1593.5	38.0			G1/1800
FVH (80°-90°)	89.6	2.1			G1/100
BL (0°-30°)	192.2	4.6	B1/500		
BM (30°-60°)	236.4	5.6	B1/1000		
BH (60°-80°)	178.8	4.3	B1/500		G1/500
BVH (80°-90°)	7.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P450576
 CATALOG NUMBER: GALN-SA1B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3
2.5°	1202.3	1205.6	1204.6	1203.5	1201.6	1196.5	1188.0	1186.6	1181.2	1169.8	1155.5
5°	1183.8	1186.6	1186.9	1188.5	1190.8	1189.9	1183.8	1183.1	1175.2	1159.7	1135.9
7.5°	1120.4	1124.2	1132.3	1141.5	1149.7	1157.4	1159.3	1160.4	1155.5	1137.7	1105.9
10°	1049.1	1052.8	1056.5	1070.1	1090.2	1109.4	1125.3	1127.4	1128.6	1112.2	1073.4
12.5°	970.0	977.7	985.7	1005.8	1032.7	1062.9	1090.9	1095.4	1103.3	1090.9	1045.3
15°	902.8	910.8	922.3	940.3	972.8	1016.3	1055.8	1063.1	1078.8	1072.5	1019.1
17.5°	856.3	859.1	867.0	887.6	922.7	968.6	1021.5	1036.0	1061.0	1059.4	996.7
20°	819.5	823.1	828.0	840.6	877.1	925.5	989.4	1008.1	1042.0	1047.7	974.4
22.5°	804.1	806.7	806.0	812.8	837.6	886.2	956.9	979.1	1025.2	1039.7	953.8
25°	805.0	807.4	803.9	802.2	817.0	851.6	923.0	951.3	1011.6	1034.3	935.1
27.5°	820.7	822.4	815.8	809.3	810.4	830.1	894.9	926.2	1000.2	1036.7	919.4
30°	841.8	844.8	840.6	832.6	824.0	824.9	876.9	907.7	994.8	1044.8	912.0
32.5°	868.9	871.7	869.8	863.5	852.3	839.9	872.4	901.0	995.2	1061.5	910.3
35°	897.5	903.1	906.1	905.6	896.5	875.0	890.0	913.6	1006.5	1089.3	919.9
37.5°	929.7	934.4	947.5	955.9	947.5	922.5	929.5	945.9	1031.3	1129.5	941.0
40°	961.1	968.1	987.3	1013.5	1010.2	988.2	989.9	1000.6	1075.0	1189.4	982.1
42.5°	993.8	1002.3	1035.7	1074.6	1082.3	1065.2	1069.6	1079.2	1137.3	1272.5	1052.8
45°	1036.0	1046.0	1087.2	1135.6	1166.0	1155.5	1168.1	1172.8	1220.5	1380.6	1145.9
47.5°	1090.2	1101.9	1152.7	1213.1	1256.1	1265.7	1287.7	1284.9	1323.7	1508.5	1266.6
50°	1181.7	1188.3	1236.2	1297.8	1356.9	1400.2	1424.1	1428.5	1451.7	1633.0	1401.6
52.5°	1290.5	1296.4	1331.0	1384.8	1459.0	1550.7	1609.6	1595.1	1600.7	1784.6	1559.6
55°	1412.9	1422.7	1444.7	1480.5	1576.6	1711.6	1830.0	1833.5	1771.3	1929.7	1710.9
57.5°	1507.6	1524.2	1561.9	1612.9	1734.8	1890.6	2049.7	2052.0	1972.5	2084.5	1878.0
60°	1459.9	1479.5	1565.6	1689.9	1942.3	2202.9	2312.2	2298.9	2168.3	2261.0	2081.7
62.5°	1254.0	1257.5	1382.7	1576.9	2006.2	2620.8	2702.9	2646.5	2429.6	2484.6	2288.8
65°	811.6	834.5	933.7	1205.8	1796.3	2852.6	3387.5	3257.1	2796.0	2738.5	2462.2
67.5°	512.4	506.5	547.7	688.5	1235.5	2648.4	3971.6	3951.1	3275.2	2898.7	2420.7
69°	424.9	431.4	445.5	527.8	850.2	2261.2	4040.7	4182.9	3507.5	2886.1	2270.3
70°	385.3	388.4	403.1	467.9	656.0	1893.9	3927.4	4176.6	3598.7	2833.2	2161.3
72.5°	305.8	305.5	330.8	389.3	490.4	1081.1	3224.9	3626.1	3496.7	2587.1	1785.8
75°	232.3	236.1	263.9	329.4	451.8	590.7	2250.4	2792.5	2792.7	2043.4	1114.3
77.5°	167.5	169.9	202.4	276.5	425.6	478.9	1499.0	2002.9	1882.9	936.3	350.2
80°	109.7	111.1	135.9	219.0	383.7	451.8	888.8	1225.9	888.1	248.5	115.8
82.5°	60.1	67.1	83.1	141.8	307.9	417.4	540.2	620.5	333.2	110.7	60.4
85°	30.2	32.1	46.8	82.8	201.2	345.3	376.2	355.8	172.0	55.0	31.4
87.5°	8.9	11.2	19.4	32.1	81.7	179.9	209.4	187.9	66.2	19.9	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450576
 CATALOG NUMBER: GALN-SA1B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3
2.5°	1149.7	1145.4	1126.7	1109.9	1094.4	1078.1	1064.3	1052.1	1053.3	1053.5	1041.1
5°	1123.5	1113.9	1078.3	1045.1	1017.0	981.4	951.0	931.4	921.6	908.5	913.1
7.5°	1087.9	1069.4	1020.0	964.8	913.1	867.0	817.0	782.6	760.6	739.3	742.1
10°	1051.2	1021.5	949.6	876.6	809.7	736.0	672.2	617.4	576.7	561.5	551.4
12.5°	1013.5	974.4	883.2	786.1	693.7	605.5	514.9	456.2	411.3	387.4	390.5
15°	979.1	931.6	813.9	695.6	575.5	470.5	380.2	324.3	292.9	286.4	290.1
17.5°	947.3	885.1	749.1	607.6	467.4	352.8	285.7	254.1	241.4	237.9	237.7
20°	914.5	845.5	676.4	513.5	364.3	273.5	234.4	219.7	217.3	218.7	219.0
22.5°	881.3	796.6	601.5	420.2	290.1	223.7	204.9	201.0	202.8	206.1	206.6
25°	850.7	753.6	529.4	338.3	231.6	196.5	187.4	187.4	191.6	196.5	196.8
27.5°	825.4	711.9	457.6	268.6	193.9	176.9	173.8	175.5	181.3	185.1	185.3
30°	804.6	673.1	389.8	215.2	170.6	161.2	160.5	163.3	167.5	171.0	171.3
32.5°	788.9	638.9	326.4	180.8	154.4	149.3	149.0	151.1	153.5	154.4	155.3
35°	782.8	610.6	268.3	159.1	143.6	140.4	140.4	140.1	141.1	141.5	142.0
37.5°	787.7	588.9	223.4	145.1	135.7	133.4	132.0	130.5	130.1	130.1	130.3
40°	808.6	577.4	190.0	135.9	130.1	126.6	124.0	122.4	120.7	121.2	121.7
42.5°	852.8	579.5	167.3	129.8	125.2	120.3	116.5	114.6	113.5	114.9	114.6
45°	923.2	600.6	152.8	125.6	120.3	113.9	110.4	108.6	108.6	110.7	111.4
47.5°	1021.7	640.8	145.1	122.4	116.5	109.0	105.5	104.1	104.6	108.1	108.3
50°	1141.9	710.8	143.6	120.7	114.6	105.5	101.5	100.1	101.3	105.0	105.5
52.5°	1274.6	800.8	150.4	121.0	113.0	103.4	98.3	96.2	97.3	100.4	101.3
55°	1431.8	913.6	168.0	121.9	110.7	102.2	95.9	91.2	92.6	94.8	95.0
57.5°	1592.3	1055.8	198.9	122.1	108.8	100.1	91.9	85.9	85.9	87.3	88.0
60°	1788.4	1210.7	239.6	122.4	109.0	97.1	86.6	79.8	78.8	79.5	79.8
62.5°	1983.0	1340.3	246.4	121.7	111.4	94.1	80.7	73.7	72.1	71.8	71.4
65°	2068.9	1316.2	201.9	118.4	113.9	92.2	76.0	67.8	65.0	64.1	64.1
67.5°	1929.0	1113.4	151.8	113.9	112.3	90.3	71.6	62.9	59.7	57.8	57.8
69°	1797.5	990.3	136.4	110.9	108.1	87.3	68.8	60.4	56.4	54.3	53.6
70°	1695.9	905.6	129.8	108.3	104.1	83.8	66.7	58.5	54.0	51.7	51.2
72.5°	1353.4	710.5	113.7	98.5	88.7	70.4	59.2	52.6	48.4	45.9	45.2
75°	780.0	385.1	94.3	85.6	71.4	54.7	50.1	45.9	42.6	40.2	39.5
77.5°	240.0	148.8	68.3	67.6	52.4	42.3	40.0	38.4	36.0	33.5	33.0
80°	101.1	75.8	46.3	45.6	34.9	29.5	28.8	28.5	27.6	25.5	24.8
82.5°	55.4	42.8	32.3	28.1	21.1	17.1	17.8	18.0	17.3	15.2	13.8
85°	27.1	23.4	15.7	12.6	9.6	6.1	5.8	7.0	6.6	4.7	5.1
87.5°	5.4	6.6	4.2	1.9	0.9	0.0	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)