

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: P450810

Luminaire Tested: **GALN-SA1C-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5119 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

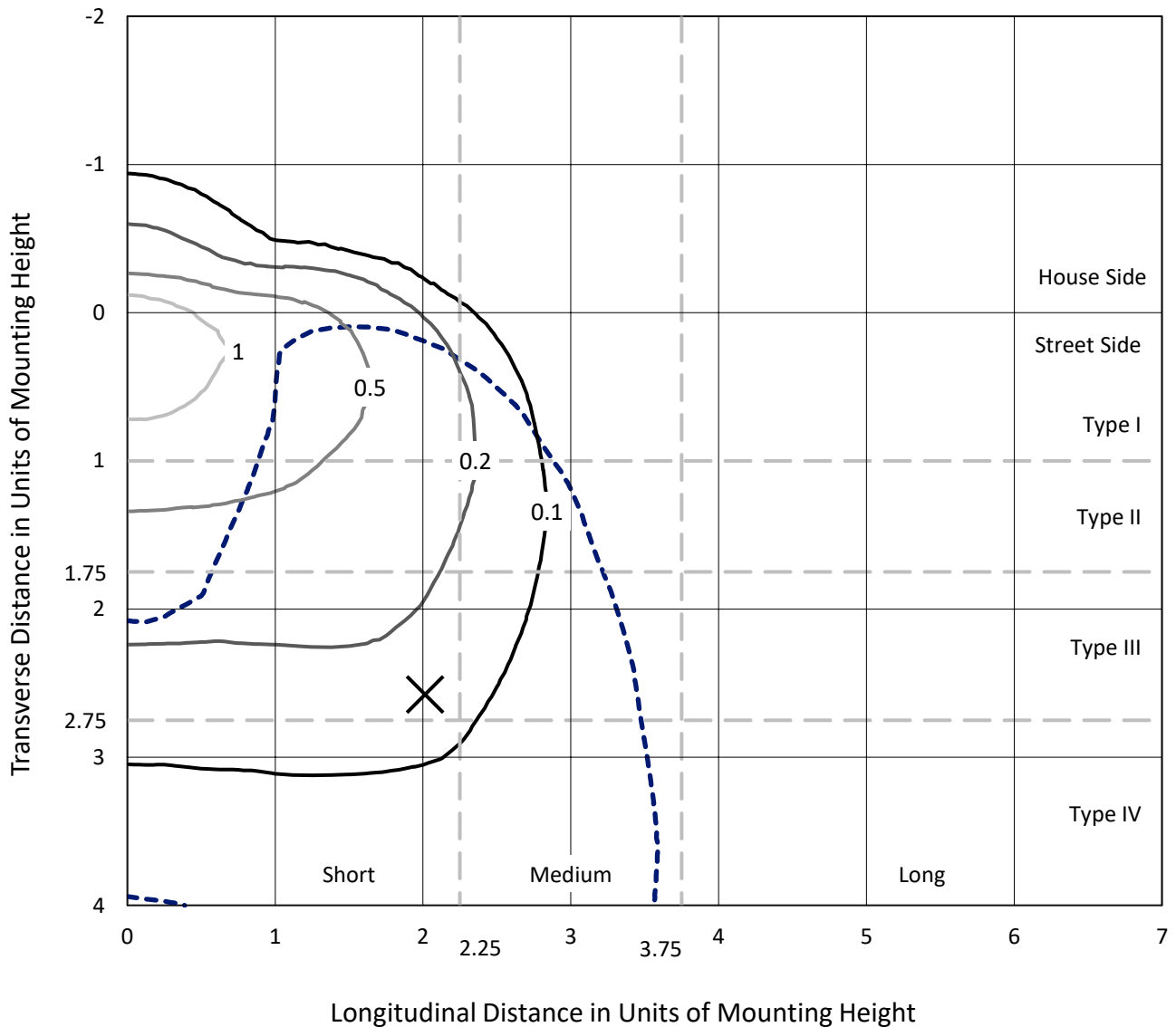
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450810
 CATALOG NUMBER: GALN-SA1C-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

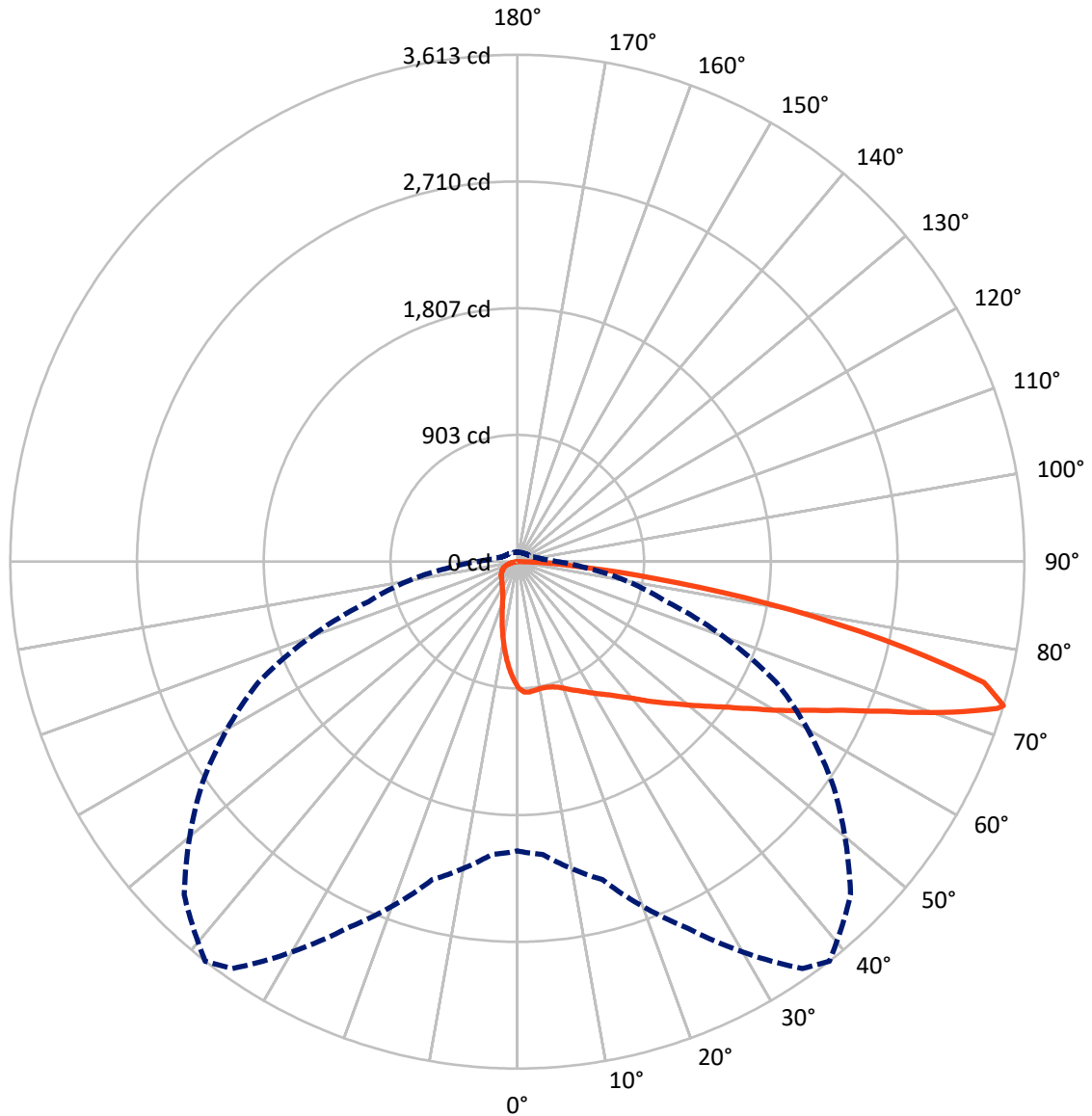
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P450810
CATALOG NUMBER: GALN-SA1C-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P450810

CATALOG NUMBER: GALN-SA1C-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.1	0.0	688.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4430.8	0.0	4430.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	5119.0	0.0	5119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.5
10°-20°	201.3	3.9
20°-30°	313.5	6.1
30°-40°	459.8	9.0
40°-50°	682.0	13.3
50°-60°	966.3	18.9
60°-70°	1225.8	23.9
70°-80°	1020.4	19.9
80°-90°	171.4	3.3
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°	5119.0	100.0
0°-180°	5119.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450810

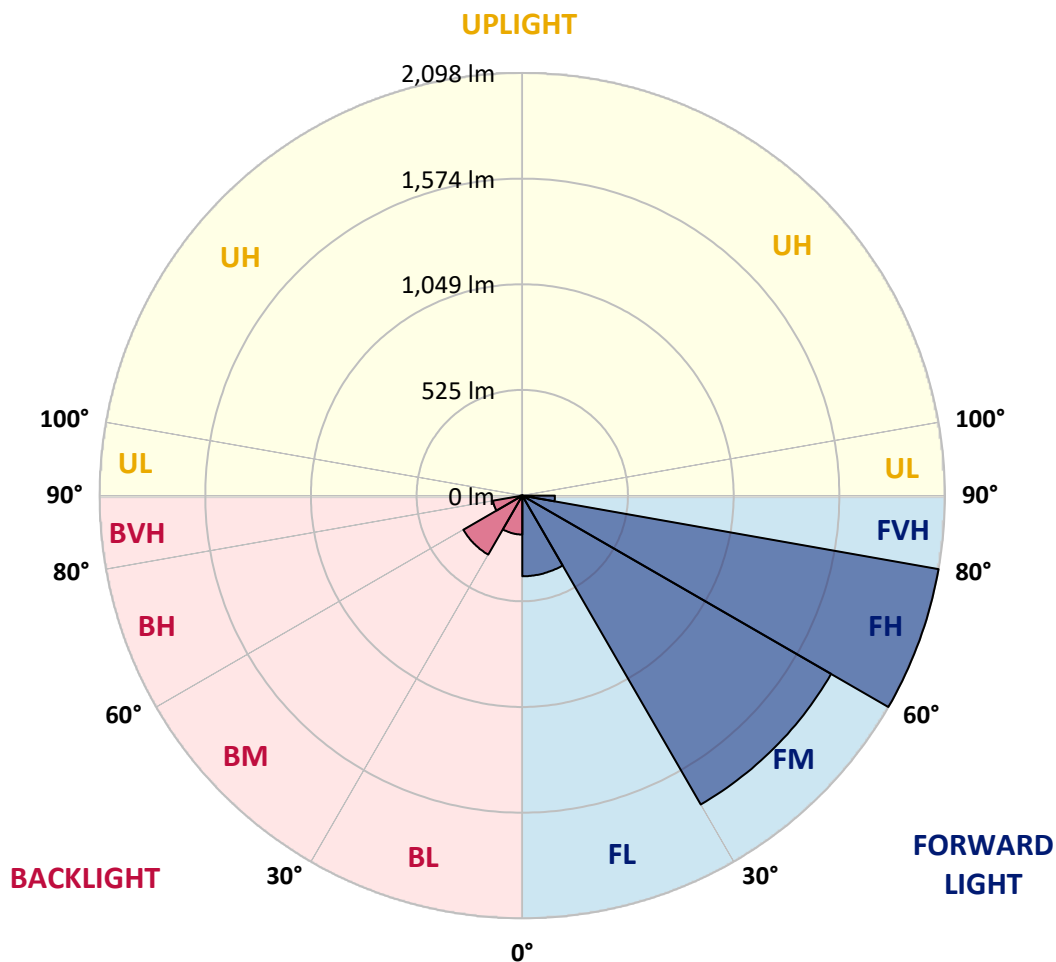
CATALOG NUMBER: GALN-SA1C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.2	7.8			
FM (30°-60°)	1770.3	34.6			
FH (60°-80°)	2098.3	41.0			G2/5000
FVH (80°-90°)	162.1	3.2			G2/225
BL (0°-30°)	193.1	3.8	B1/500		
BM (30°-60°)	337.8	6.6	B1/1000		
BH (60°-80°)	147.9	2.9	B1/500		G1/500
BVH (80°-90°)	9.3	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-G2

Type IV Short





REPORT NUMBER: P450810

CATALOG NUMBER: GALN-SA1C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3
2.5°	935.5	940.1	937.8	934.6	932.6	930.5	927.7	919.3	912.6	905.4	894.1
5°	942.4	945.3	943.3	939.2	934.6	932.6	927.1	916.1	905.4	893.3	876.5
7.5°	938.3	939.5	937.2	932.3	928.2	924.5	918.1	906.0	893.0	878.2	856.2
10°	923.9	928.2	928.2	924.2	920.1	918.1	911.8	900.2	888.3	871.6	845.6
12.5°	912.0	916.7	920.4	919.3	919.0	919.0	914.1	905.4	891.5	875.6	844.7
15°	903.9	909.4	917.5	922.2	925.0	925.9	923.9	916.4	902.2	883.7	848.2
17.5°	902.2	908.9	923.6	933.7	941.2	940.9	940.4	930.0	914.4	895.3	852.5
20°	910.0	918.7	939.2	955.1	966.1	964.1	960.9	947.3	929.1	907.7	856.5
22.5°	933.4	942.4	964.9	982.3	993.0	993.0	983.4	965.5	946.2	922.2	862.0
25°	967.0	976.8	1000.8	1018.4	1023.3	1019.6	1010.0	988.4	966.1	943.0	873.6
27.5°	1008.0	1019.9	1042.1	1056.9	1055.4	1052.5	1042.7	1015.0	992.7	971.6	893.3
30°	1059.2	1067.9	1091.0	1094.4	1089.2	1088.7	1074.8	1047.0	1026.2	1010.0	921.3
32.5°	1107.5	1115.3	1133.8	1135.2	1126.0	1127.1	1114.1	1088.7	1076.8	1071.0	968.4
35°	1158.6	1162.7	1178.6	1176.8	1170.8	1169.9	1164.7	1140.4	1144.2	1154.6	1035.2
37.5°	1201.4	1209.5	1218.5	1219.9	1219.6	1222.5	1226.0	1214.4	1236.1	1268.8	1122.8
40°	1240.7	1247.7	1261.0	1265.6	1276.9	1282.6	1294.5	1294.8	1344.8	1398.6	1230.6
42.5°	1267.3	1279.2	1304.0	1312.4	1339.9	1357.2	1374.9	1393.6	1466.2	1535.3	1357.8
45°	1290.4	1306.1	1347.4	1373.4	1410.7	1431.8	1469.1	1508.4	1612.8	1703.2	1487.0
47.5°	1325.4	1339.3	1386.7	1432.7	1489.0	1513.3	1569.1	1627.8	1764.2	1863.4	1610.7
50°	1374.0	1382.4	1430.6	1505.5	1577.5	1608.7	1682.4	1767.1	1926.1	2021.5	1719.4
52.5°	1436.1	1439.6	1478.1	1577.8	1672.6	1711.3	1809.0	1907.9	2067.8	2158.8	1805.6
55°	1509.6	1503.8	1533.8	1654.4	1781.3	1831.9	1936.8	2050.4	2227.1	2269.8	1868.3
57.5°	1582.1	1573.2	1597.2	1747.5	1915.4	1976.4	2098.7	2197.3	2369.3	2373.6	1912.3
60°	1659.0	1652.4	1681.0	1856.7	2079.9	2152.2	2265.2	2349.6	2506.9	2445.9	1919.2
62.5°	1737.9	1727.2	1768.0	1979.6	2265.2	2330.8	2440.4	2511.5	2641.9	2472.8	1852.4
65°	1814.5	1809.6	1872.6	2125.6	2476.2	2550.8	2657.2	2705.5	2750.0	2432.3	1686.8
67.5°	1896.1	1905.9	2006.5	2320.4	2751.4	2845.1	2959.9	2914.5	2780.9	2240.6	1420.5
70°	2020.4	2026.7	2182.2	2575.7	3106.1	3219.2	3274.7	2988.8	2631.8	1876.7	1067.9
72.5°	2073.8	2101.9	2339.2	2843.7	3509.1	3578.2	3380.5	2823.1	2192.4	1274.8	561.1
73°	2062.0	2095.5	2346.4	2884.4	3540.6	3613.2	3357.9	2737.9	2038.0	1097.9	481.0
75°	1914.3	1955.6	2252.5	2850.3	3479.3	3436.0	2995.4	2333.4	1377.2	499.2	219.1
77.5°	1510.4	1522.3	1784.8	2301.6	2739.9	2659.5	2241.8	1458.4	562.5	185.6	124.3
80°	757.7	801.3	1006.0	1318.5	1832.2	1805.9	1415.0	689.7	234.4	109.0	82.4
82.5°	364.5	395.5	490.0	642.9	1012.4	988.4	700.7	377.0	148.9	63.6	48.6
85°	234.7	257.9	311.9	306.7	416.3	397.5	314.8	285.3	88.2	33.2	33.8
87.5°	154.9	169.7	203.5	162.8	151.5	137.0	139.0	160.7	17.3	12.7	4.6
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: P450810
 CATALOG NUMBER: GALN-SA1C-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3	899.3
2.5°	889.5	885.7	873.3	861.2	849.6	838.6	831.4	821.8	815.5	817.2	819.8
5°	867.2	858.9	836.9	815.5	795.3	771.3	751.9	736.3	724.4	720.1	719.2
7.5°	843.8	829.7	798.1	761.4	727.0	697.3	662.9	645.8	625.9	618.9	616.6
10°	829.7	810.6	766.3	715.2	663.4	614.0	576.7	546.4	518.9	513.7	511.1
12.5°	825.6	800.5	740.9	675.0	606.2	545.5	490.3	450.4	423.8	417.7	408.8
15°	823.3	792.1	717.2	634.5	547.2	473.2	415.1	368.6	344.3	328.1	328.4
17.5°	821.3	782.5	690.6	590.3	496.3	411.1	346.9	305.0	282.7	274.0	273.2
20°	818.4	771.3	660.0	543.8	438.2	354.4	296.3	265.1	250.1	242.8	242.5
22.5°	817.2	760.3	629.9	496.3	386.8	310.8	262.8	240.8	231.3	226.3	226.3
25°	820.1	752.5	598.4	451.3	341.1	273.5	239.6	224.6	219.1	216.5	215.7
27.5°	829.1	749.0	567.2	406.2	299.2	248.0	224.0	213.6	209.6	207.6	207.8
30°	846.1	748.7	536.5	361.6	268.0	228.7	211.6	204.4	201.2	200.0	199.8
32.5°	873.6	755.1	506.5	324.9	241.7	212.5	200.0	194.8	193.4	192.5	192.2
35°	920.1	773.0	476.7	291.4	221.4	198.0	189.1	186.5	184.4	185.3	185.6
37.5°	982.9	803.9	448.4	265.1	206.1	187.3	179.8	177.5	176.3	177.2	178.1
40°	1067.0	848.4	424.7	244.0	195.1	178.4	171.7	169.7	168.5	170.0	170.3
42.5°	1159.8	899.9	405.0	227.5	186.2	170.8	164.5	162.2	161.3	162.2	162.5
45°	1255.2	959.7	394.9	215.7	178.7	165.4	158.7	156.1	154.1	153.5	154.4
47.5°	1349.1	1011.8	394.6	208.4	172.6	160.4	153.2	150.3	147.7	146.3	146.0
50°	1425.7	1053.1	401.5	205.2	167.4	154.9	147.7	144.8	141.4	138.5	139.0
52.5°	1483.5	1080.0	404.7	203.8	164.5	149.2	141.9	139.3	135.3	131.5	131.5
55°	1520.8	1086.4	396.9	202.4	162.2	143.1	135.3	133.0	128.9	125.2	125.2
57.5°	1533.6	1066.7	368.9	198.9	159.9	137.9	128.6	126.6	123.4	119.7	119.1
60°	1504.1	1000.2	319.7	188.5	155.2	132.4	121.4	120.5	119.4	116.2	115.9
62.5°	1390.5	859.1	266.2	174.9	147.4	126.6	114.8	116.2	117.1	115.3	115.1
65°	1201.4	697.5	227.5	156.1	137.0	118.5	107.5	111.3	113.6	113.6	113.0
67.5°	974.5	535.7	191.7	139.9	124.0	107.5	99.4	102.3	104.1	103.5	104.9
70°	692.6	362.8	156.1	121.4	107.5	95.1	89.0	89.0	87.9	87.3	87.3
72.5°	335.9	207.3	126.6	101.5	91.6	81.2	76.3	74.3	72.0	71.7	70.2
73°	280.7	185.9	120.8	97.7	87.9	79.2	73.7	70.5	69.1	67.9	67.6
75°	170.8	141.1	100.9	82.4	74.9	68.2	63.3	60.4	59.0	58.1	57.8
77.5°	112.5	105.2	78.3	63.0	57.2	53.2	51.2	48.3	47.4	46.3	46.3
80°	83.8	80.4	56.1	44.5	41.0	37.6	37.0	36.4	34.1	32.7	32.1
82.5°	54.1	57.2	38.2	29.8	26.0	23.1	23.4	24.3	22.0	19.9	19.4
85°	38.4	41.3	23.1	13.6	11.0	9.5	10.7	9.5	9.8	7.8	6.4
87.5°	6.4	11.0	4.0	1.7	0.9	0.6	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)