

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: P450661

Luminaire Tested: **GALN-SA1C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5939 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

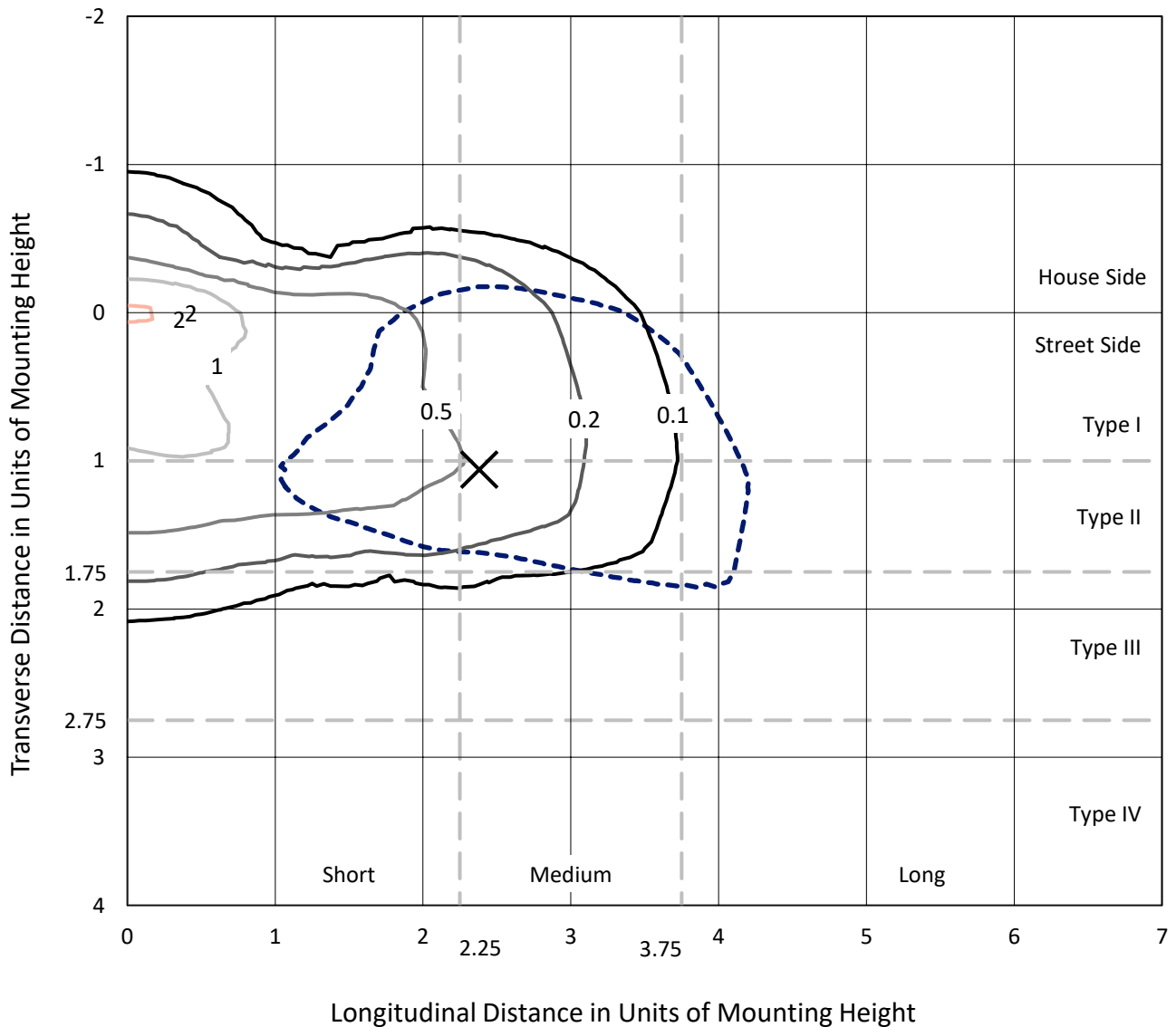
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

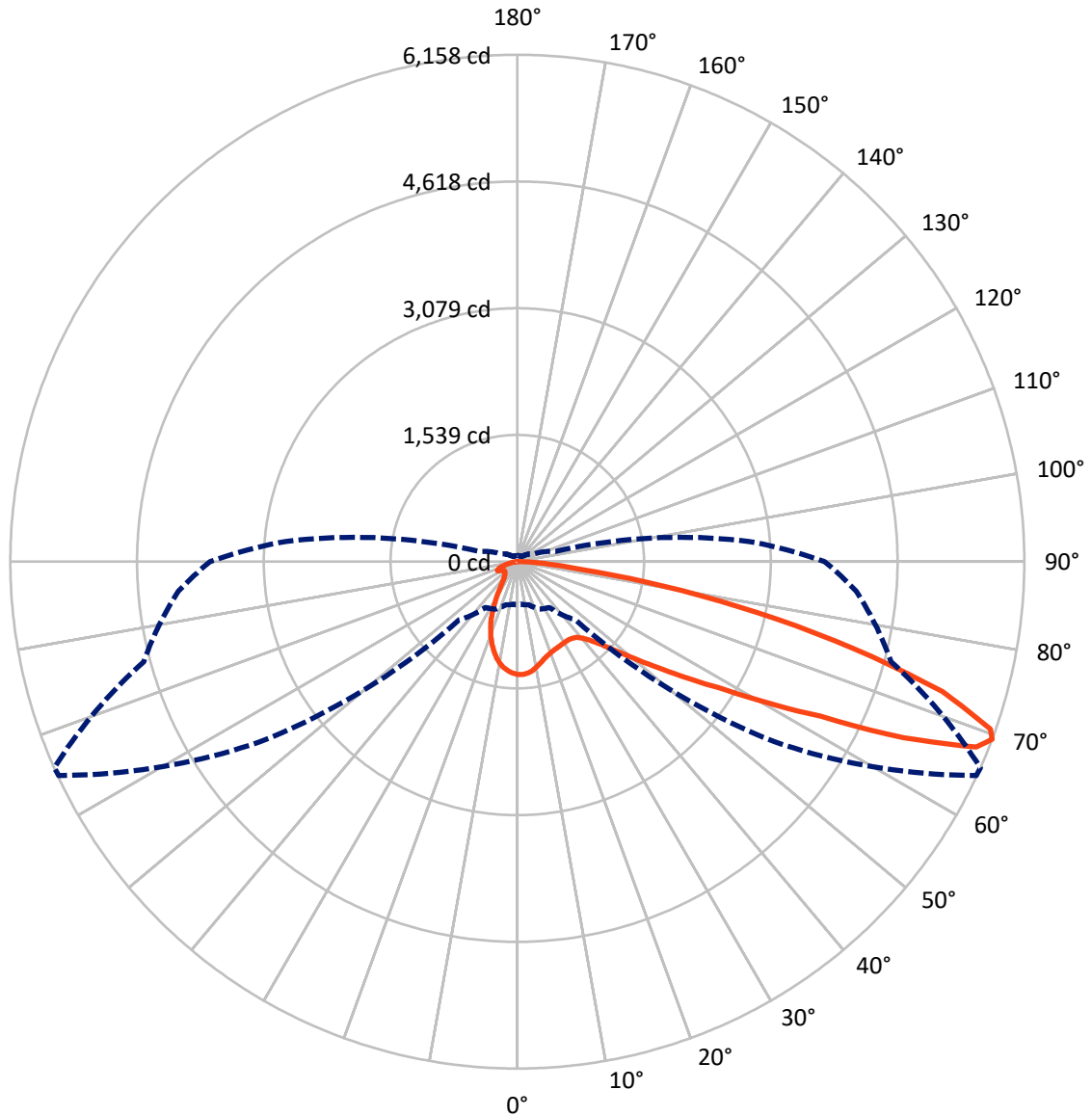
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.9	0.0	1116.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4822.1	0.0	4822.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	5939.0	0.0	5939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	2.0
10°-20°	282.5	4.8
20°-30°	384.6	6.5
30°-40°	516.8	8.7
40°-50°	771.6	13.0
50°-60°	1227.4	20.7
60°-70°	1509.7	25.4
70°-80°	982.3	16.5
80°-90°	145.0	2.4
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°	5939.0	100.0
0°-180°	5939.0	100.0

Coefficient of Utilization



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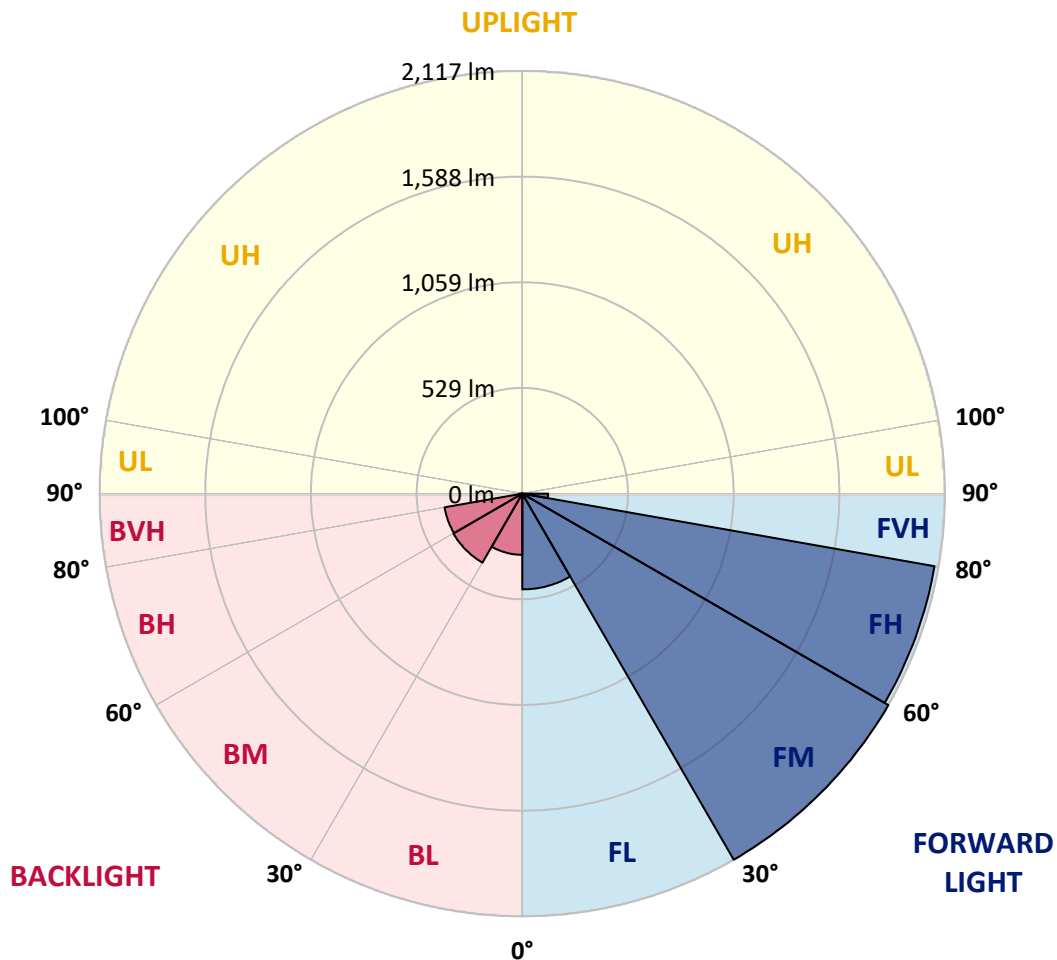
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.6	8.1			
FM (30°-60°)	2117.1	35.6			
FH (60°-80°)	2096.5	35.3			G2/5000
FVH (80°-90°)	129.0	2.2			G2/225
BL (0°-30°)	306.6	5.2	B1/500		
BM (30°-60°)	398.8	6.7	B1/1000		
BH (60°-80°)	395.4	6.7	B1/500		G1/500
BVH (80°-90°)	16.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1323.5	1328.7	1334.6	1341.2	1353.7	1360.6	1365.6	1371.2	1371.8	1374.8	1372.5
5°	1225.8	1232.0	1240.9	1253.4	1272.2	1301.4	1331.7	1356.4	1359.3	1373.1	1377.1
7.5°	1144.2	1147.8	1155.1	1175.1	1201.8	1234.3	1278.4	1328.4	1335.6	1368.5	1380.0
10°	1077.8	1081.4	1089.9	1110.7	1137.0	1177.8	1226.1	1291.9	1297.8	1354.4	1380.7
12.5°	1028.1	1031.4	1040.6	1061.0	1091.3	1129.4	1182.7	1252.4	1261.0	1335.6	1374.4
15°	990.3	996.5	1004.1	1020.9	1052.8	1089.6	1141.3	1216.2	1223.1	1315.9	1370.2
17.5°	974.2	977.1	982.4	997.9	1021.2	1057.4	1109.4	1188.0	1196.2	1302.1	1369.2
20°	974.8	977.8	978.8	987.3	1004.1	1035.4	1086.7	1165.6	1175.5	1289.9	1370.8
22.5°	997.2	997.5	993.9	991.0	997.5	1023.5	1070.5	1148.8	1160.3	1284.7	1372.1
25°	1031.7	1037.7	1032.4	1018.6	1006.4	1018.9	1064.3	1139.6	1150.5	1277.1	1370.5
27.5°	1087.6	1088.6	1084.4	1065.6	1034.0	1024.8	1061.7	1132.7	1141.9	1271.5	1362.3
30°	1162.6	1159.7	1155.7	1135.0	1085.3	1047.5	1067.3	1126.5	1136.0	1263.3	1352.4
32.5°	1238.6	1247.8	1244.2	1219.9	1155.4	1091.6	1085.3	1125.8	1133.7	1257.0	1341.6
35°	1319.2	1323.5	1340.6	1328.1	1262.0	1163.0	1119.2	1136.0	1142.2	1257.4	1334.0
37.5°	1382.3	1393.8	1434.0	1444.8	1382.7	1257.4	1174.1	1164.9	1167.6	1273.5	1336.9
40°	1458.6	1478.4	1530.0	1574.4	1533.6	1380.0	1267.6	1218.5	1221.8	1312.3	1356.4
42.5°	1555.3	1569.1	1638.5	1698.7	1692.1	1542.2	1380.7	1306.4	1308.0	1389.6	1410.6
45°	1668.5	1688.2	1766.2	1856.6	1872.1	1725.7	1544.1	1439.2	1438.2	1509.6	1511.9
47.5°	1813.2	1825.4	1902.6	2001.3	2063.8	1956.3	1742.5	1630.0	1619.5	1684.6	1665.8
50°	1946.4	1965.5	2024.0	2131.9	2287.4	2226.3	2003.3	1877.3	1852.6	1913.5	1881.9
52.5°	2002.3	2022.4	2071.7	2205.6	2479.2	2575.6	2334.5	2172.3	2131.2	2177.9	2166.4
55°	1905.3	1931.3	1977.3	2140.1	2563.4	2978.4	2781.1	2513.4	2483.5	2463.4	2466.7
57.5°	1644.5	1669.1	1731.3	1910.9	2462.7	3270.8	3418.8	2951.8	2887.7	2795.3	2811.0
60°	1251.8	1267.2	1299.5	1498.4	2164.4	3346.8	4143.1	3506.0	3465.2	3125.8	3137.0
62.5°	889.0	906.4	928.8	1028.1	1584.6	3132.7	4710.1	4279.9	4134.2	3468.2	3457.3
65°	721.9	710.1	737.0	783.4	929.8	2427.9	4837.7	5354.0	5153.4	3919.1	3768.4
67.5°	593.7	581.2	607.8	690.3	707.1	1409.3	4377.9	6051.3	6011.2	4409.5	4084.5
69°	525.6	519.0	542.3	636.4	678.8	1000.8	3813.8	6148.3	6157.8	4698.6	4133.2
70°	473.6	476.2	498.9	609.1	666.0	825.2	3259.6	6014.5	6095.4	4842.9	4080.6
72.5°	348.6	354.2	385.8	504.5	653.8	700.2	1939.8	5253.4	5396.5	4851.5	3732.9
75°	243.7	241.1	269.0	379.9	617.7	694.0	1139.3	4062.8	4224.9	4193.4	3136.6
77.5°	159.5	163.8	186.2	268.4	519.6	688.7	742.6	2882.4	2987.7	2804.5	1855.3
80°	112.5	112.2	124.7	183.2	385.5	661.7	608.1	1816.8	1790.2	1102.1	550.2
82.5°	64.5	69.1	83.5	128.9	257.9	582.5	559.4	868.9	793.3	314.1	185.8
85°	35.8	37.5	49.7	77.9	150.6	438.7	488.4	395.3	373.0	131.2	79.9
87.5°	11.5	12.5	20.7	39.5	68.4	207.2	276.6	182.5	168.4	47.4	32.2
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°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1373.5	1377.4	1366.9	1356.7	1347.5	1334.6	1323.1	1313.6	1307.0	1306.0	1302.7
5°	1378.1	1378.4	1358.3	1331.4	1305.0	1276.1	1246.2	1224.8	1204.7	1193.5	1188.0
7.5°	1381.3	1378.4	1342.2	1298.5	1247.8	1195.2	1142.6	1100.5	1067.9	1055.1	1060.0
10°	1380.0	1370.8	1317.9	1247.8	1174.1	1095.5	1019.9	960.7	906.4	878.5	879.1
12.5°	1372.8	1357.7	1281.7	1190.9	1082.7	977.5	861.7	781.8	719.0	681.8	670.3
15°	1366.5	1340.2	1239.3	1113.6	979.1	828.8	687.7	589.0	536.4	507.2	506.8
17.5°	1360.0	1323.5	1192.9	1031.7	860.1	666.7	518.7	443.3	418.7	421.6	416.7
20°	1353.1	1303.7	1144.5	940.6	715.0	497.3	388.4	357.8	364.7	378.2	380.2
22.5°	1345.2	1282.7	1092.6	840.3	562.4	374.3	315.1	310.5	328.2	349.3	352.2
25°	1333.0	1256.4	1027.1	735.4	433.8	301.6	275.9	279.2	296.7	314.4	316.4
27.5°	1315.9	1223.8	961.0	604.5	325.9	258.8	252.3	256.5	265.1	275.9	278.6
30°	1292.9	1187.0	885.0	491.4	261.1	237.5	234.8	237.1	242.1	246.7	248.0
32.5°	1269.9	1151.5	808.4	376.3	232.9	223.3	220.7	220.7	220.7	221.3	221.7
35°	1248.5	1117.9	726.2	293.0	218.1	212.1	208.5	204.6	203.9	201.6	201.6
37.5°	1236.6	1087.3	638.7	245.4	207.2	202.9	198.0	191.4	187.8	188.1	187.5
40°	1238.9	1067.3	559.1	218.4	198.3	193.7	186.2	178.6	176.3	176.3	175.6
42.5°	1264.9	1060.7	482.8	204.2	189.8	184.5	175.0	168.1	166.7	166.4	167.1
45°	1324.8	1076.8	414.4	195.0	182.5	174.6	165.1	158.9	157.5	157.5	157.2
47.5°	1441.5	1129.1	365.4	189.1	177.3	167.1	157.2	151.0	148.7	148.0	148.0
50°	1623.1	1242.6	328.9	183.9	170.7	160.2	150.0	142.7	139.1	138.8	138.5
52.5°	1875.3	1419.5	314.7	179.9	163.5	152.9	141.8	134.8	130.2	129.3	128.6
55°	2170.4	1666.5	334.2	176.9	155.9	144.7	133.2	126.0	121.7	119.7	119.4
57.5°	2512.1	1963.2	407.8	173.0	149.0	135.8	124.7	117.4	112.8	110.5	109.8
60°	2818.9	2268.0	536.4	170.7	143.1	126.3	114.8	108.2	103.9	101.6	101.3
62.5°	3156.0	2558.8	690.0	176.9	140.4	117.1	105.6	99.7	96.0	93.7	93.7
65°	3516.2	2849.9	791.6	198.0	144.4	109.8	95.7	90.8	87.5	85.8	85.5
67.5°	3758.9	2950.5	652.2	219.7	154.3	102.0	86.2	82.2	80.2	78.6	78.6
69°	3732.6	2823.2	481.2	225.3	157.2	98.0	80.9	77.9	75.3	74.7	74.0
70°	3649.4	2678.2	403.2	221.7	154.9	94.4	77.6	74.0	71.7	71.0	70.7
72.5°	3250.4	2322.6	300.3	192.7	131.9	81.9	68.7	65.4	63.5	62.5	62.5
75°	2700.5	1898.4	234.5	153.3	103.3	69.1	58.9	56.2	54.6	53.9	53.6
77.5°	1513.6	1060.0	168.4	120.0	78.3	55.9	49.3	47.0	45.4	44.7	44.7
80°	421.6	302.9	99.0	79.3	53.3	42.4	39.1	37.5	35.2	33.5	34.5
82.5°	158.9	131.2	56.6	47.7	33.9	28.3	27.3	26.0	25.0	22.7	22.7
85°	77.3	63.8	36.2	25.3	18.7	14.8	14.1	13.5	12.8	11.2	11.5
87.5°	26.6	28.3	15.8	9.2	5.6	3.6	3.0	1.6	1.6	1.6	1.6
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)