

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: P450431

Luminaire Tested: **GALN-SA1B-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450431
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-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 4773 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

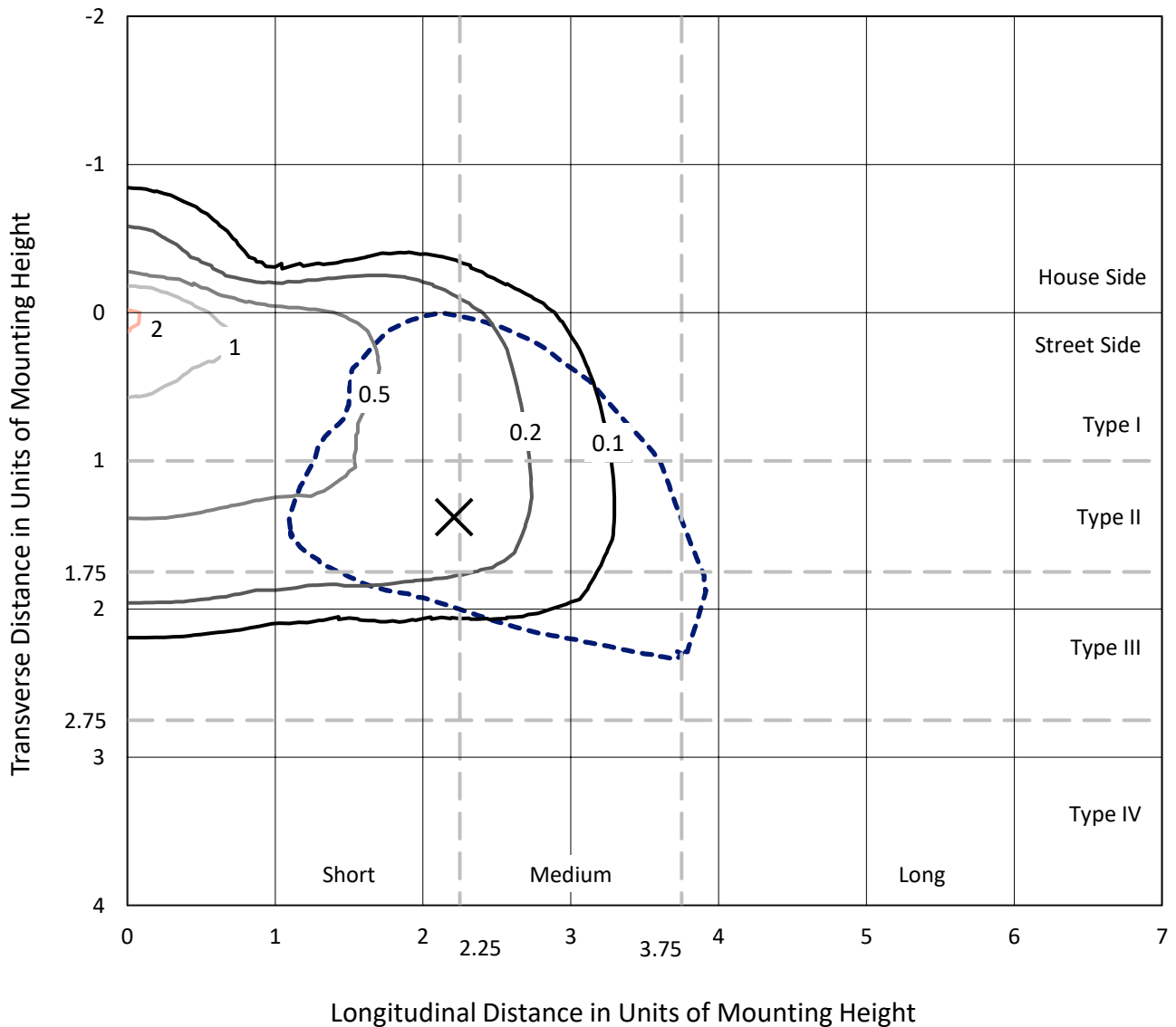
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

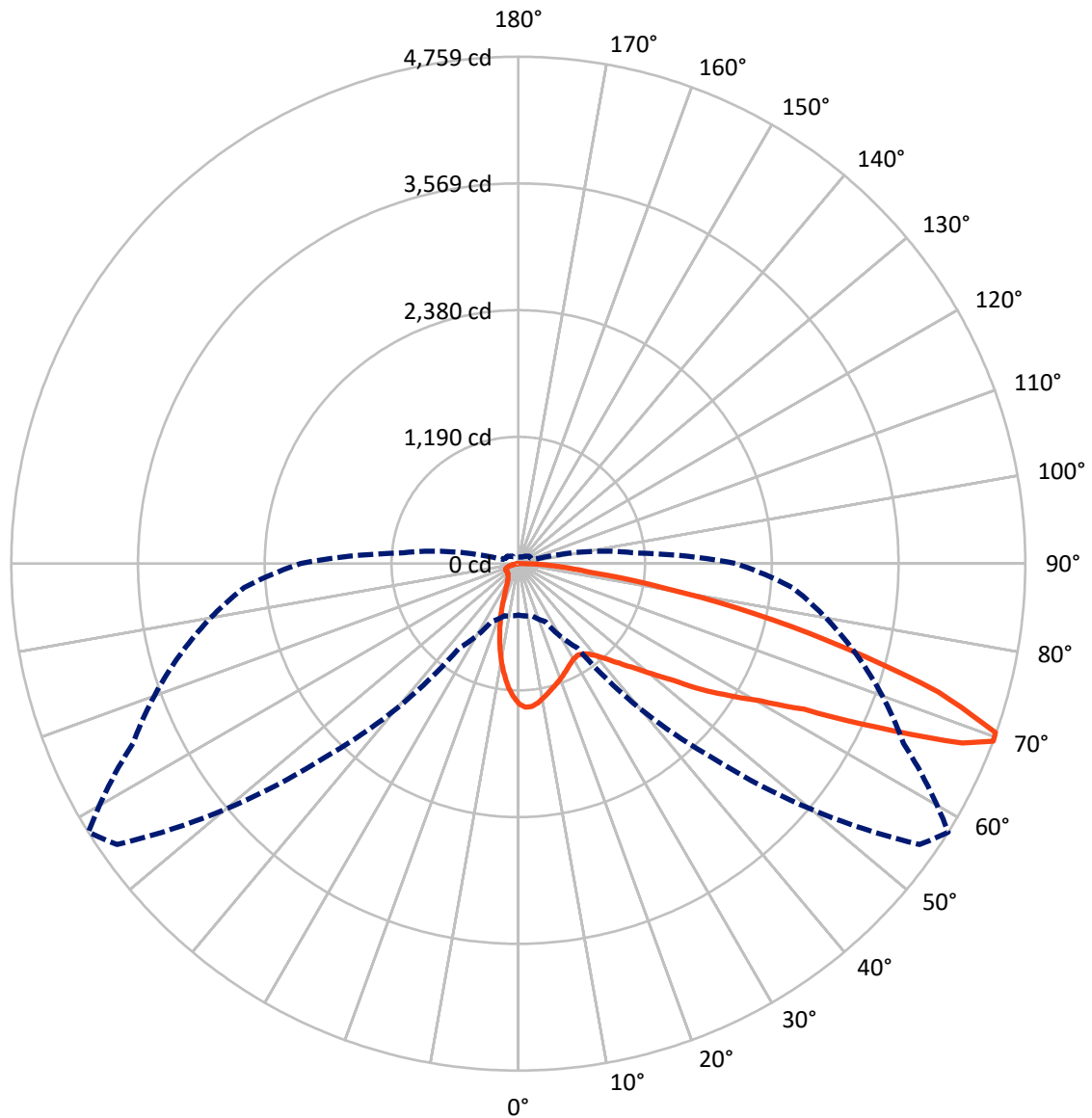
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.5	0.0	699.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4073.5	0.0	4073.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	4773.0	0.0	4773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	2.3
10°-20°	246.0	5.2
20°-30°	317.8	6.7
30°-40°	412.7	8.6
40°-50°	600.1	12.6
50°-60°	957.5	20.1
60°-70°	1279.1	26.8
70°-80°	737.4	15.4
80°-90°	110.4	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°	4773.0	100.0
0°-180°	4773.0	100.0

Coefficient of Utilization

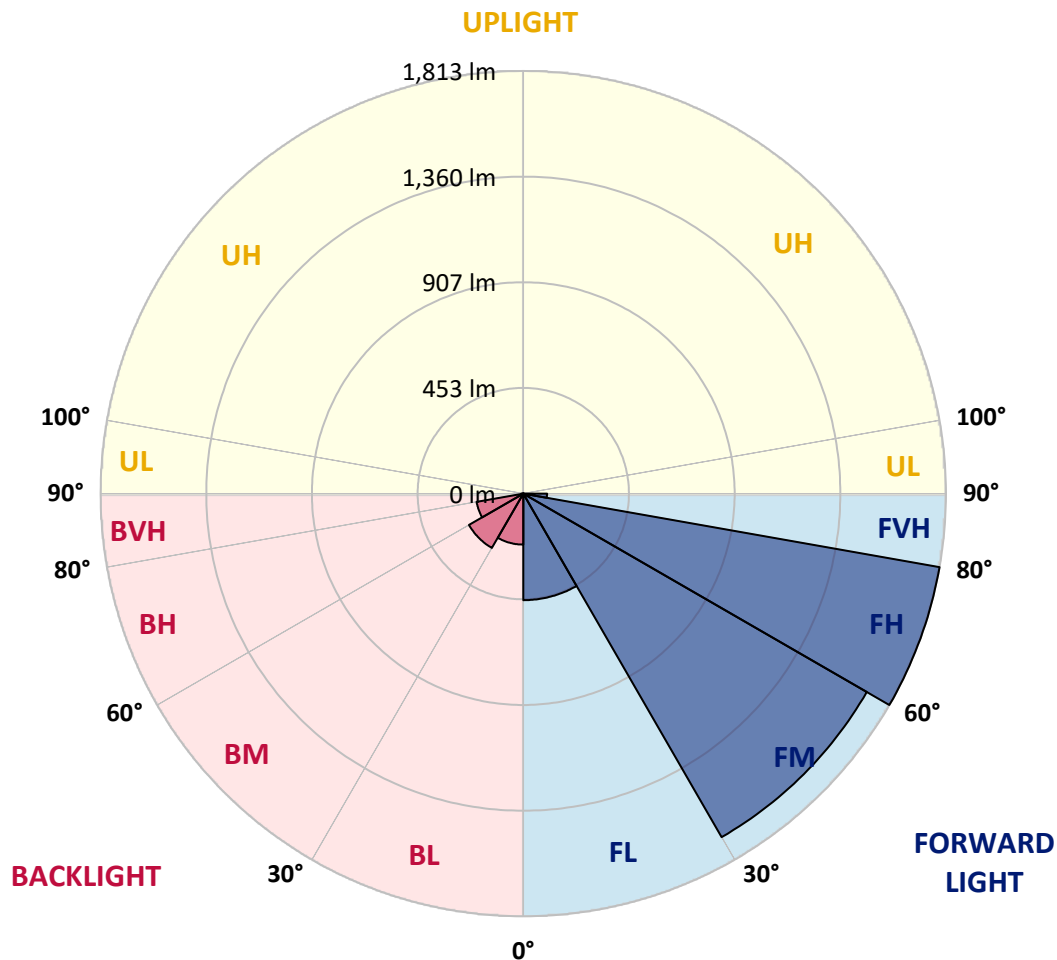


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.1	9.6			
FM (30°-60°)	1701.3	35.6			
FH (60°-80°)	1813.1	38.0			G2/5000
FVH (80°-90°)	102.0	2.1			G2/225
BL (0°-30°)	218.6	4.6	B1/500		
BM (30°-60°)	269.0	5.6	B1/1000		
BH (60°-80°)	203.4	4.3	B1/500		G1/500
BVH (80°-90°)	8.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1368.0	1371.7	1370.6	1369.3	1367.2	1361.3	1351.7	1350.1	1344.0	1331.0	1314.7
5°	1346.9	1350.1	1350.4	1352.3	1354.9	1353.8	1346.9	1346.1	1337.1	1319.5	1292.4
7.5°	1274.8	1279.0	1288.4	1298.7	1308.1	1316.8	1319.0	1320.3	1314.7	1294.5	1258.3
10°	1193.6	1197.9	1202.1	1217.6	1240.5	1262.3	1280.4	1282.8	1284.1	1265.5	1221.3
12.5°	1103.6	1112.4	1121.5	1144.4	1175.0	1209.3	1241.2	1246.3	1255.4	1241.2	1189.3
15°	1027.2	1036.3	1049.3	1069.8	1106.8	1156.3	1201.3	1209.6	1227.4	1220.2	1159.5
17.5°	974.3	977.5	986.5	1009.9	1049.9	1102.0	1162.2	1178.7	1207.2	1205.3	1134.0
20°	932.5	936.5	942.1	956.4	998.0	1053.1	1125.7	1147.0	1185.6	1192.0	1108.7
22.5°	914.9	917.8	917.0	924.7	953.0	1008.3	1088.7	1114.0	1166.5	1183.0	1085.3
25°	916.0	918.6	914.6	912.8	929.5	968.9	1050.1	1082.3	1151.0	1176.8	1064.0
27.5°	933.8	935.7	928.2	920.8	922.1	944.4	1018.2	1053.9	1138.0	1179.5	1046.1
30°	957.8	961.2	956.4	947.4	937.5	938.6	997.7	1032.8	1131.8	1188.8	1037.6
32.5°	988.6	991.8	989.7	982.5	969.7	955.6	992.6	1025.1	1132.4	1207.7	1035.8
35°	1021.1	1027.5	1031.0	1030.4	1020.0	995.6	1012.6	1039.5	1145.2	1239.4	1046.7
37.5°	1057.8	1063.2	1078.1	1087.7	1078.1	1049.6	1057.6	1076.2	1173.4	1285.2	1070.6
40°	1093.5	1101.5	1123.3	1153.1	1149.4	1124.4	1126.3	1138.5	1223.1	1353.3	1117.5
42.5°	1130.8	1140.4	1178.4	1222.6	1231.4	1212.0	1217.0	1227.9	1294.0	1447.8	1197.9
45°	1178.7	1190.1	1237.0	1292.1	1326.7	1314.7	1329.1	1334.4	1388.7	1570.8	1303.8
47.5°	1240.5	1253.8	1311.5	1380.2	1429.2	1440.1	1465.1	1461.9	1506.1	1716.4	1441.2
50°	1344.5	1352.0	1406.6	1476.6	1543.9	1593.2	1620.3	1625.4	1651.7	1858.0	1594.8
52.5°	1468.3	1475.0	1514.4	1575.6	1660.0	1764.3	1831.4	1814.9	1821.3	2030.5	1774.4
55°	1607.5	1618.7	1643.7	1684.5	1793.9	1947.5	2082.1	2086.1	2015.3	2195.5	1946.7
57.5°	1715.3	1734.2	1777.1	1835.1	1973.8	2151.1	2332.1	2334.8	2244.3	2371.8	2136.7
60°	1661.0	1683.4	1781.4	1922.7	2209.9	2506.5	2630.8	2615.6	2467.1	2572.5	2368.6
62.5°	1426.8	1430.8	1573.2	1794.1	2282.6	2981.9	3075.3	3011.2	2764.4	2827.0	2604.1
65°	923.4	949.5	1062.4	1371.9	2043.8	3245.7	3854.2	3705.9	3181.3	3115.8	2801.4
67.5°	583.0	576.3	623.2	783.4	1405.8	3013.3	4518.9	4495.4	3726.4	3298.1	2754.3
69°	483.4	490.9	506.8	600.5	967.3	2572.7	4597.4	4759.2	3990.7	3283.7	2583.1
70°	438.4	441.9	458.6	532.4	746.4	2154.8	4468.6	4752.0	4094.6	3223.6	2459.1
72.5°	347.9	347.6	376.4	442.9	557.9	1230.1	3669.2	4125.7	3978.5	2943.5	2031.8
75°	264.3	268.6	300.3	374.8	514.0	672.1	2560.5	3177.3	3177.5	2324.9	1267.9
77.5°	190.6	193.3	230.3	314.6	484.2	544.9	1705.5	2278.9	2142.3	1065.3	398.5
80°	124.8	126.4	154.7	249.2	436.6	514.0	1011.3	1394.8	1010.5	282.7	131.8
82.5°	68.4	76.4	94.5	161.3	350.3	474.9	614.6	705.9	379.1	125.9	68.7
85°	34.3	36.5	53.2	94.2	228.9	392.9	428.0	404.9	195.7	62.6	35.7
87.5°	10.1	12.8	22.1	36.5	92.9	204.7	238.2	213.8	75.3	22.6	7.5
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°	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1308.1	1303.3	1282.0	1262.8	1245.2	1226.6	1210.9	1197.1	1198.4	1198.7	1184.6
5°	1278.3	1267.3	1226.9	1189.1	1157.1	1116.7	1082.1	1059.7	1048.5	1033.6	1038.9
7.5°	1237.8	1216.8	1160.6	1097.8	1038.9	986.5	929.5	890.4	865.4	841.2	844.4
10°	1196.0	1162.2	1080.5	997.4	921.3	837.4	764.8	702.5	656.2	638.9	627.4
12.5°	1153.1	1108.7	1004.9	894.4	789.3	688.9	585.9	519.1	468.0	440.8	444.3
15°	1114.0	1060.0	926.1	791.4	654.8	535.3	432.6	368.9	333.3	325.8	330.1
17.5°	1077.8	1007.0	852.3	691.3	531.9	401.4	325.0	289.1	274.7	270.7	270.5
20°	1040.5	962.0	769.6	584.3	414.5	311.2	266.7	250.0	247.3	248.9	249.2
22.5°	1002.7	906.4	684.4	478.1	330.1	254.5	233.2	228.7	230.8	234.5	235.0
25°	967.9	857.4	602.4	384.9	263.5	223.6	213.2	213.2	218.0	223.6	223.9
27.5°	939.1	810.0	520.7	305.6	220.7	201.2	197.8	199.6	206.3	210.6	210.8
30°	915.4	765.8	443.5	244.9	194.1	183.4	182.6	185.8	190.6	194.6	194.9
32.5°	897.6	727.0	371.3	205.8	175.7	169.8	169.6	172.0	174.6	175.7	176.8
35°	890.7	694.8	305.3	181.0	163.4	159.7	159.7	159.4	160.5	161.0	161.6
37.5°	896.3	670.0	254.2	165.0	154.4	151.7	150.1	148.5	148.0	148.0	148.3
40°	920.0	657.0	216.1	154.7	148.0	144.0	141.1	139.2	137.4	137.9	138.4
42.5°	970.3	659.4	190.3	147.7	142.4	136.8	132.6	130.4	129.1	130.7	130.4
45°	1050.4	683.3	173.8	142.9	136.8	129.6	125.6	123.5	123.5	125.9	126.7
47.5°	1162.5	729.1	165.0	139.2	132.6	124.0	120.1	118.5	119.0	123.0	123.2
50°	1299.3	808.7	163.4	137.4	130.4	120.1	115.5	113.9	115.3	119.5	120.1
52.5°	1450.2	911.2	171.2	137.6	128.6	117.7	111.8	109.4	110.7	114.2	115.3
55°	1629.1	1039.5	191.1	138.7	125.9	116.3	109.1	103.8	105.4	107.8	108.1
57.5°	1811.7	1201.3	226.3	139.0	123.8	113.9	104.6	97.7	97.7	99.3	100.1
60°	2034.8	1377.5	272.6	139.2	124.0	110.5	98.5	90.8	89.7	90.5	90.8
62.5°	2256.2	1525.0	280.3	138.4	126.7	107.0	91.8	83.9	82.0	81.7	81.2
65°	2353.9	1497.6	229.7	134.7	129.6	104.9	86.5	77.2	74.0	72.9	72.9
67.5°	2194.7	1266.8	172.8	129.6	127.8	102.7	81.5	71.6	67.9	65.7	65.7
69°	2045.1	1126.8	155.2	126.2	123.0	99.3	78.3	68.7	64.2	61.8	61.0
70°	1929.6	1030.4	147.7	123.2	118.5	95.3	75.9	66.5	61.5	58.8	58.3
72.5°	1539.9	808.4	129.4	112.1	100.9	80.1	67.3	59.9	55.1	52.2	51.4
75°	887.5	438.2	107.3	97.4	81.2	62.3	57.0	52.2	48.4	45.8	45.0
77.5°	273.1	169.3	77.7	76.9	59.6	48.2	45.5	43.7	41.0	38.1	37.5
80°	115.0	86.2	52.7	51.9	39.7	33.5	32.7	32.5	31.4	29.0	28.2
82.5°	63.1	48.7	36.7	31.9	24.0	19.4	20.2	20.5	19.7	17.3	15.7
85°	30.9	26.6	17.8	14.4	10.9	6.9	6.7	8.0	7.5	5.3	5.9
87.5°	6.1	7.5	4.8	2.1	1.1	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)