

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: P451038

Luminaire Tested: **GALN-SA1D-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451038
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-SA1D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 5744 lumens
Efficiency: N/A
Efficacy: 88.4 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

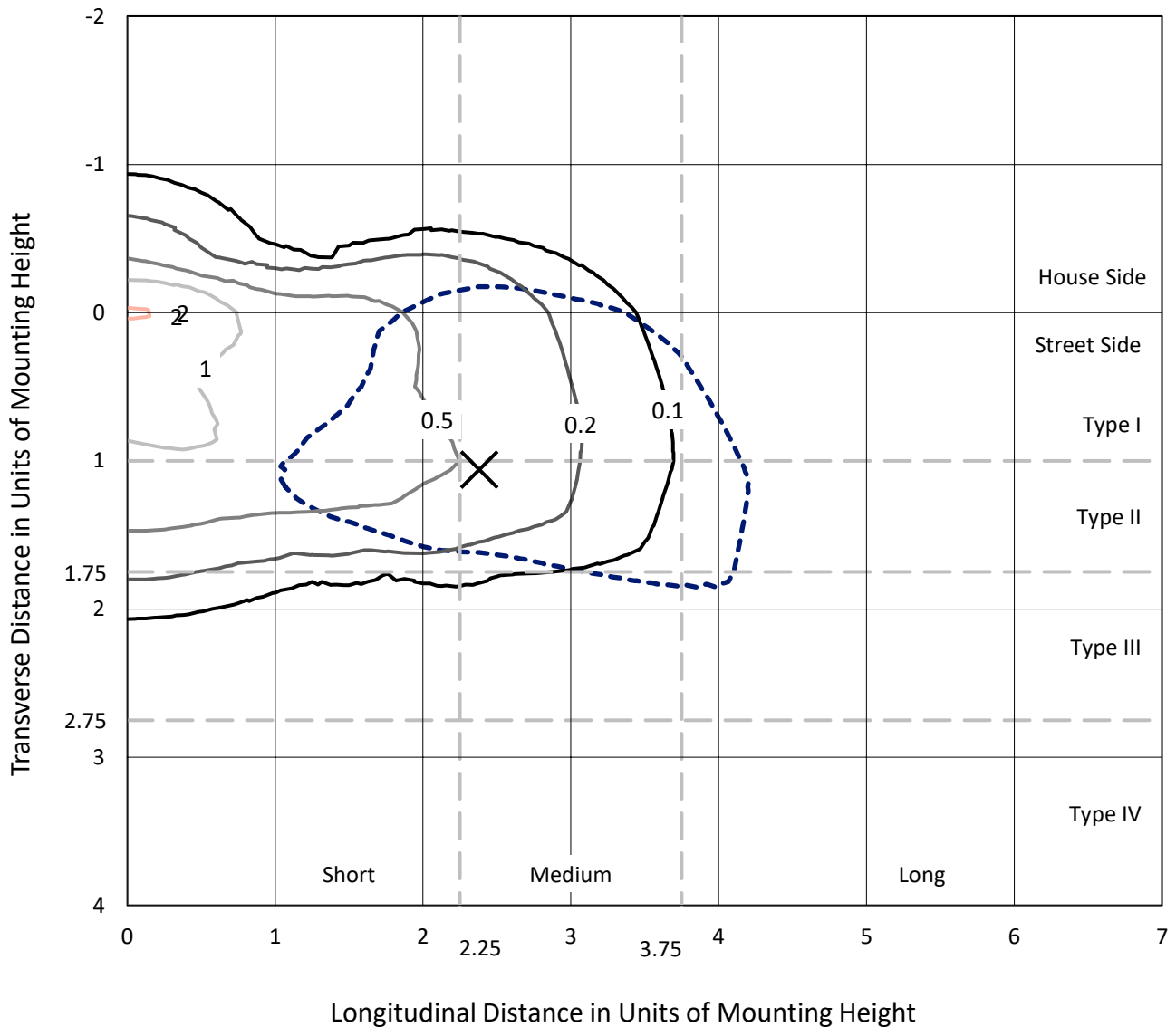
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

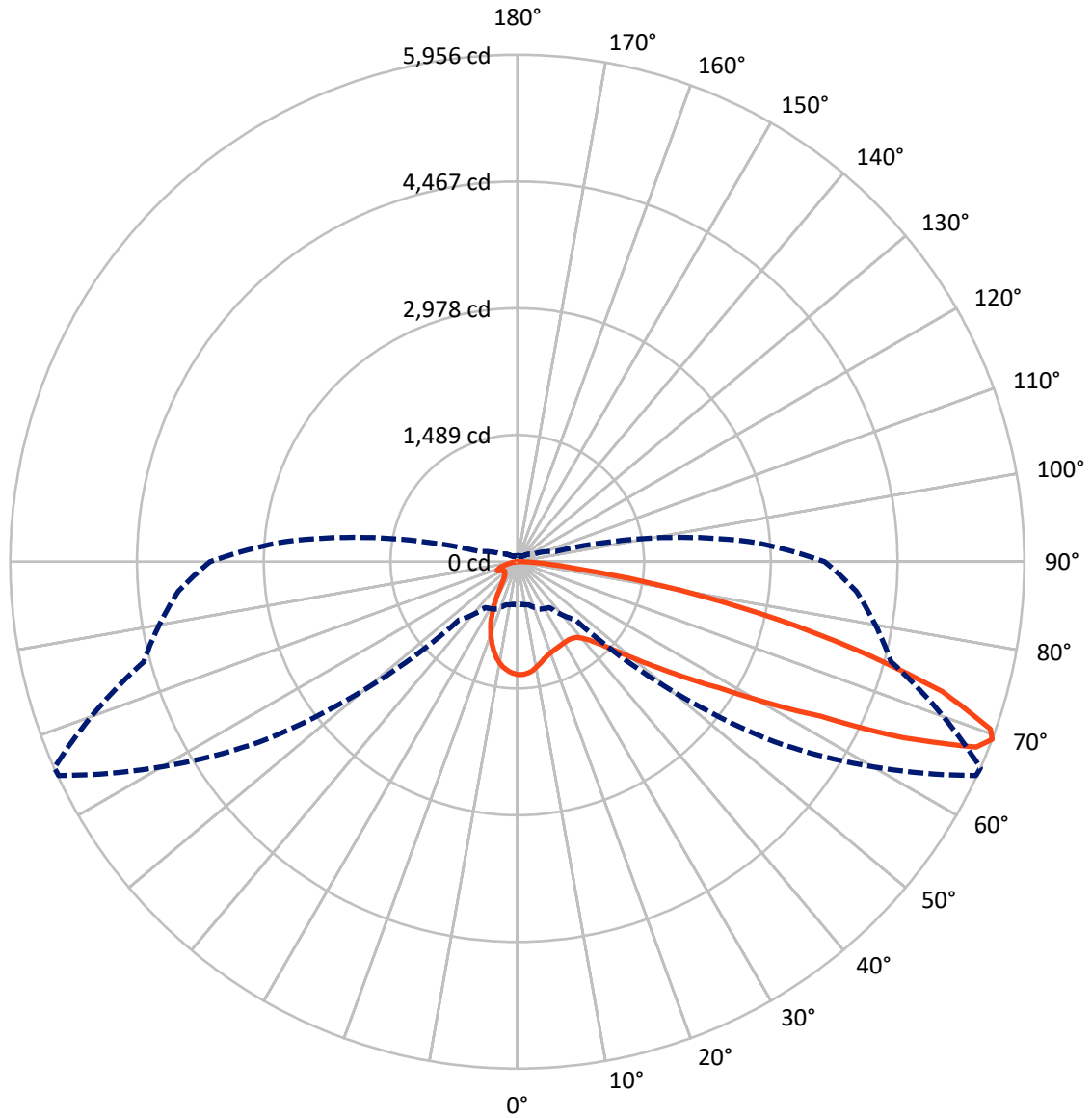
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - 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	1080.2	0.0	1080.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4663.8	0.0	4663.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	5744.0	0.0	5744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.0
10°-20°	273.2	4.8
20°-30°	371.9	6.5
30°-40°	499.8	8.7
40°-50°	746.3	13.0
50°-60°	1187.1	20.7
60°-70°	1460.1	25.4
70°-80°	950.0	16.5
80°-90°	140.3	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°	5744.0	100.0
0°-180°	5744.0	100.0

Coefficient of Utilization



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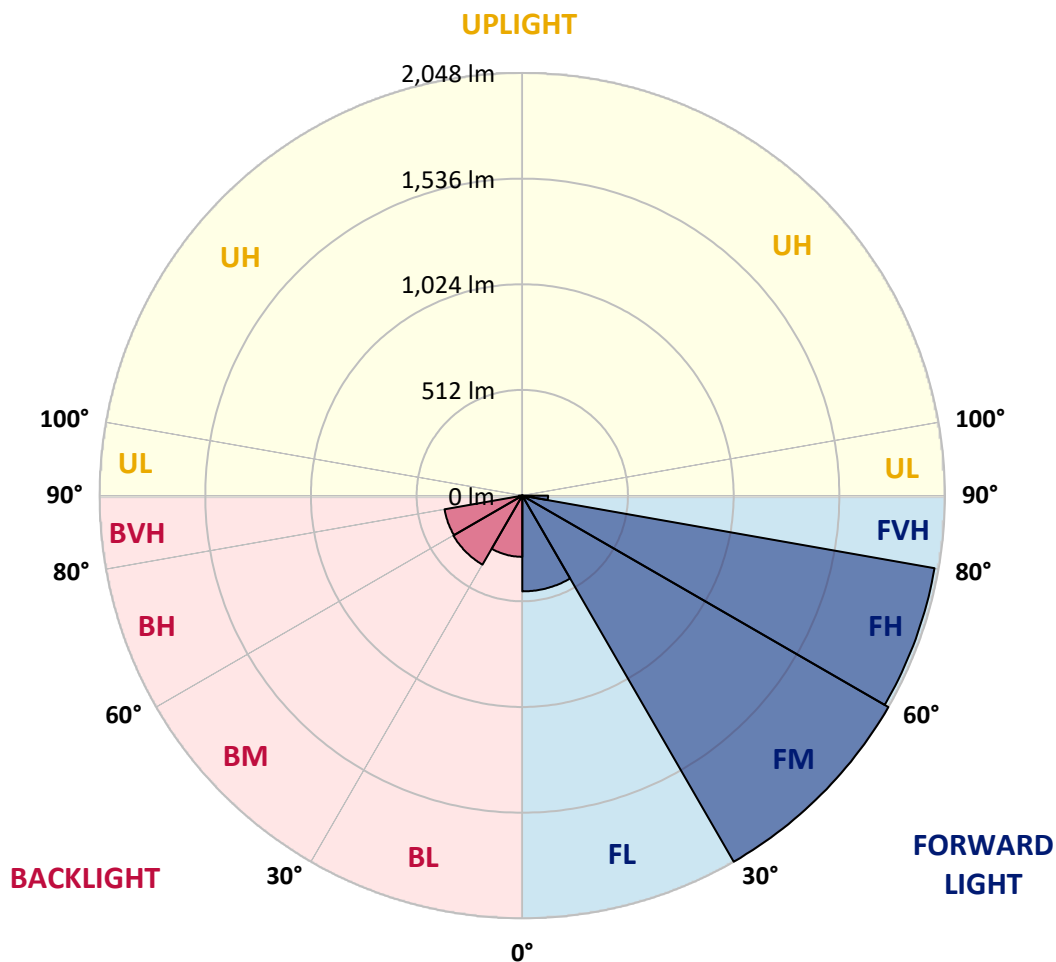
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.8	8.1			
FM	(30°-60°)	2047.6	35.6			
FH	(60°-80°)	2027.7	35.3			G2/5000
FVH	(80°-90°)	124.7	2.2			G2/225
BL	(0°-30°)	296.5	5.2	B1/500		
BM	(30°-60°)	385.7	6.7	B1/1000		
BH	(60°-80°)	382.4	6.7	B1/500		G1/500
BVH	(80°-90°)	15.6	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°	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4
2.5°	1280.0	1285.1	1290.8	1297.2	1309.3	1316.0	1320.7	1326.1	1326.8	1329.6	1327.4
5°	1185.5	1191.6	1200.2	1212.3	1230.4	1258.7	1288.0	1311.8	1314.7	1328.0	1331.9
7.5°	1106.6	1110.1	1117.1	1136.5	1162.3	1193.8	1236.4	1284.8	1291.8	1323.6	1334.7
10°	1042.4	1045.9	1054.2	1074.2	1099.6	1139.1	1185.9	1249.5	1255.2	1309.9	1335.4
12.5°	994.4	997.5	1006.4	1026.2	1055.4	1092.3	1143.9	1211.3	1219.6	1291.8	1329.3
15°	957.8	963.8	971.1	987.4	1018.2	1053.8	1103.8	1176.3	1183.0	1272.7	1325.2
17.5°	942.2	945.1	950.1	965.1	987.7	1022.7	1072.9	1149.0	1156.9	1259.3	1324.2
20°	942.8	945.7	946.6	954.9	971.1	1001.4	1051.0	1127.3	1136.9	1247.6	1325.8
22.5°	964.5	964.8	961.3	958.4	964.8	989.9	1035.4	1111.1	1122.2	1242.5	1327.1
25°	997.9	1003.6	998.5	985.1	973.4	985.5	1029.4	1102.2	1112.7	1235.2	1325.5
27.5°	1051.9	1052.9	1048.8	1030.6	1000.1	991.2	1026.8	1095.5	1104.4	1229.7	1317.5
30°	1124.5	1121.6	1117.8	1097.7	1049.7	1013.1	1032.2	1089.5	1098.7	1221.8	1308.0
32.5°	1197.9	1206.8	1203.3	1179.8	1117.5	1055.8	1049.7	1088.8	1096.5	1215.8	1297.5
35°	1275.9	1280.0	1296.5	1284.5	1220.5	1124.8	1082.5	1098.7	1104.7	1216.1	1290.2
37.5°	1336.9	1348.1	1386.9	1397.4	1337.3	1216.1	1135.6	1126.7	1129.2	1231.7	1293.0
40°	1410.7	1429.8	1479.8	1522.7	1483.3	1334.7	1225.9	1178.5	1181.7	1269.2	1311.8
42.5°	1504.3	1517.6	1584.7	1643.0	1636.6	1491.5	1335.4	1263.5	1265.1	1343.9	1364.3
45°	1613.7	1632.8	1708.2	1795.6	1810.6	1669.0	1493.4	1392.0	1391.0	1460.0	1462.3
47.5°	1753.6	1765.4	1840.2	1935.6	1996.0	1892.0	1685.3	1576.5	1566.3	1629.3	1611.1
50°	1882.5	1900.9	1957.5	2061.9	2212.3	2153.2	1937.5	1815.7	1791.8	1850.7	1820.1
52.5°	1936.6	1956.0	2003.7	2133.1	2397.8	2491.0	2257.8	2101.0	2061.2	2106.4	2095.3
55°	1842.7	1867.8	1912.4	2069.8	2479.2	2880.7	2689.8	2430.9	2401.9	2382.5	2385.7
57.5°	1590.5	1614.3	1674.4	1848.1	2381.9	3163.4	3306.6	2854.9	2792.9	2703.5	2718.7
60°	1210.7	1225.6	1256.8	1449.2	2093.4	3236.9	4007.0	3390.9	3351.4	3023.2	3034.0
62.5°	859.8	876.7	898.3	994.4	1532.6	3029.8	4555.4	4139.3	3998.4	3354.3	3343.8
65°	698.2	686.8	712.8	757.7	899.2	2348.2	4678.8	5178.2	4984.2	3790.4	3644.7
67.5°	574.2	562.1	587.8	667.7	683.9	1363.0	4234.1	5852.6	5813.8	4264.7	3950.4
69°	508.3	502.0	524.5	615.5	656.5	968.0	3688.6	5946.4	5955.7	4544.3	3997.5
70°	458.1	460.6	482.5	589.1	644.1	798.1	3152.6	5817.0	5895.2	4683.9	3946.6
72.5°	337.2	342.6	373.1	488.0	632.4	677.2	1876.1	5080.9	5219.3	4692.2	3610.4
75°	235.7	233.2	260.2	367.4	597.4	671.2	1101.9	3929.4	4086.2	4055.7	3033.7
77.5°	154.3	158.4	180.0	259.6	502.6	666.1	718.3	2787.8	2889.6	2712.4	1794.4
80°	108.8	108.5	120.6	177.2	372.8	640.0	588.2	1757.1	1731.4	1065.9	532.2
82.5°	62.3	66.8	80.8	124.7	249.4	563.3	541.1	840.4	767.2	303.8	179.7
85°	34.7	36.3	48.0	75.4	145.7	424.3	472.4	382.3	360.7	126.9	77.3
87.5°	11.1	12.1	20.0	38.2	66.2	200.4	267.5	176.5	162.9	45.8	31.2
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°	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4	1326.4
2.5°	1328.4	1332.2	1322.0	1312.1	1303.2	1290.8	1279.7	1270.5	1264.1	1263.1	1260.0
5°	1332.8	1333.1	1313.7	1287.6	1262.2	1234.2	1205.3	1184.6	1165.2	1154.4	1149.0
7.5°	1336.0	1333.1	1298.1	1255.8	1206.8	1156.0	1105.1	1064.3	1032.8	1020.4	1025.2
10°	1334.7	1325.8	1274.6	1206.8	1135.6	1059.6	986.4	929.2	876.7	849.6	850.3
12.5°	1327.7	1313.1	1239.6	1151.8	1047.2	945.4	833.4	756.1	695.4	659.4	648.3
15°	1321.7	1296.2	1198.6	1077.1	947.0	801.6	665.1	569.7	518.8	490.5	490.2
17.5°	1315.3	1280.0	1153.7	997.9	831.8	644.8	501.6	428.8	404.9	407.8	403.0
20°	1308.6	1260.9	1107.0	909.7	691.5	481.0	375.7	346.1	352.8	365.8	367.7
22.5°	1301.0	1240.6	1056.7	812.7	543.9	362.0	304.7	300.3	317.5	337.8	340.7
25°	1289.2	1215.1	993.4	711.3	419.6	291.7	266.9	270.1	286.9	304.1	306.0
27.5°	1272.7	1183.6	929.5	584.7	315.2	250.3	244.0	248.1	256.4	266.9	269.4
30°	1250.4	1148.0	856.0	475.2	252.6	229.7	227.1	229.3	234.1	238.6	239.8
32.5°	1228.2	1113.6	781.9	363.9	225.2	216.0	213.4	213.4	213.4	214.1	214.4
35°	1207.5	1081.2	702.4	283.4	210.9	205.2	201.7	197.9	197.2	195.0	195.0
37.5°	1196.0	1051.6	617.7	237.3	200.4	196.3	191.5	185.1	181.6	181.9	181.3
40°	1198.3	1032.2	540.8	211.2	191.8	187.4	180.0	172.7	170.5	170.5	169.9
42.5°	1223.4	1025.9	467.0	197.5	183.5	178.5	169.2	162.5	161.3	161.0	161.6
45°	1281.3	1041.4	400.8	188.6	176.5	168.9	159.7	153.6	152.4	152.4	152.0
47.5°	1394.2	1092.0	353.4	182.9	171.5	161.6	152.0	146.0	143.8	143.1	143.1
50°	1569.8	1201.8	318.1	177.8	165.1	154.9	145.1	138.1	134.6	134.2	133.9
52.5°	1813.8	1372.9	304.4	174.0	158.1	147.9	137.1	130.4	126.0	125.0	124.4
55°	2099.1	1611.8	323.2	171.1	150.8	140.0	128.8	121.8	117.7	115.8	115.5
57.5°	2429.6	1898.7	394.4	167.3	144.1	131.4	120.6	113.6	109.1	106.9	106.2
60°	2726.4	2193.6	518.8	165.1	138.4	122.1	111.0	104.7	100.5	98.3	98.0
62.5°	3052.4	2474.8	667.4	171.1	135.8	113.2	102.1	96.4	92.9	90.7	90.7
65°	3400.7	2756.3	765.7	191.5	139.6	106.2	92.6	87.8	84.6	83.0	82.7
67.5°	3635.5	2853.6	630.8	212.5	149.2	98.6	83.3	79.5	77.6	76.0	76.0
69°	3610.0	2730.5	465.4	217.9	152.0	94.8	78.3	75.4	72.8	72.2	71.6
70°	3529.6	2590.2	390.0	214.4	149.8	91.3	75.1	71.6	69.3	68.7	68.4
72.5°	3143.7	2246.4	290.4	186.4	127.6	79.2	66.5	63.3	61.4	60.4	60.4
75°	2611.9	1836.0	226.8	148.2	99.9	66.8	56.9	54.4	52.8	52.2	51.8
77.5°	1463.9	1025.2	162.9	116.1	75.7	54.1	47.7	45.5	43.9	43.3	43.3
80°	407.8	293.0	95.7	76.7	51.5	41.0	37.9	36.3	34.0	32.4	33.4
82.5°	153.6	126.9	54.7	46.1	32.8	27.4	26.4	25.1	24.2	21.9	21.9
85°	74.8	61.7	35.0	24.5	18.1	14.3	13.7	13.0	12.4	10.8	11.1
87.5°	25.8	27.4	15.3	8.9	5.4	3.5	2.9	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)