

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: P299096

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

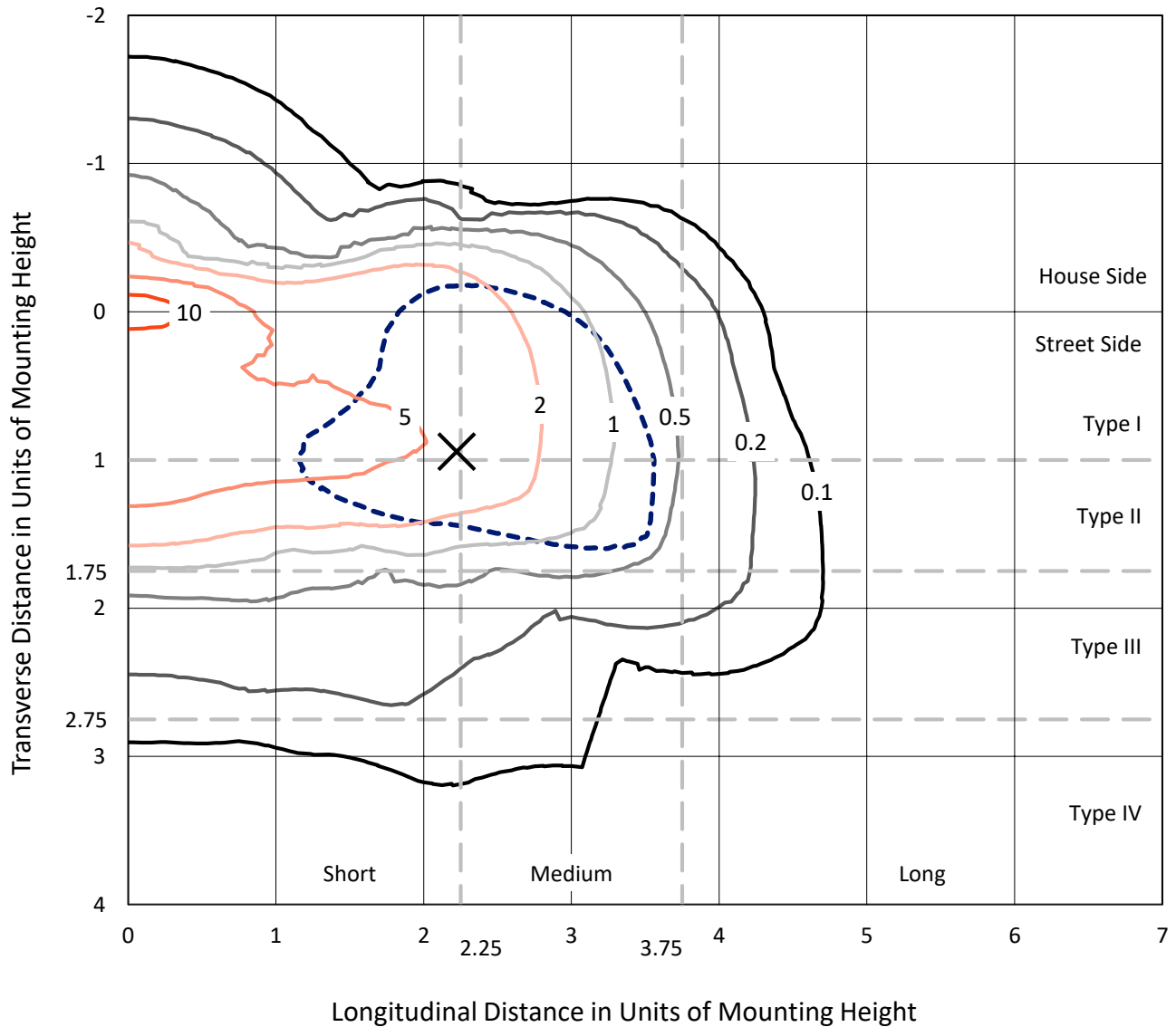
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

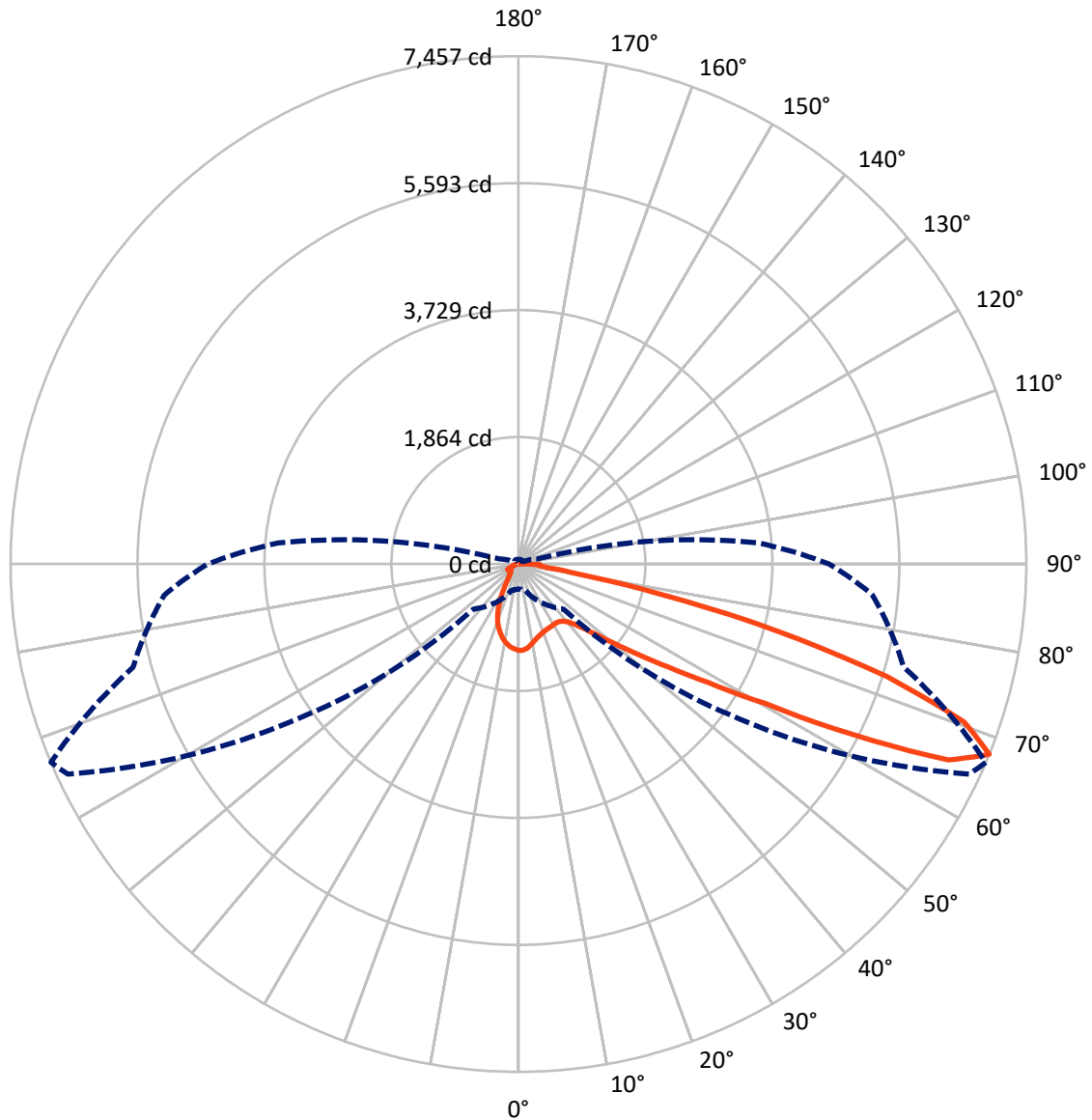
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.1	0.0	975.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4910.1	0.0	4910.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	5885.2	0.0	5885.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.8
10°-20°	250.6	4.3
20°-30°	339.7	5.8
30°-40°	482.9	8.2
40°-50°	807.9	13.7
50°-60°	1278.1	21.7
60°-70°	1628.2	27.7
70°-80°	852.8	14.5
80°-90°	136.8	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°	5885.2	100.0
0°-180°	5885.2	100.0

Coefficient of Utilization



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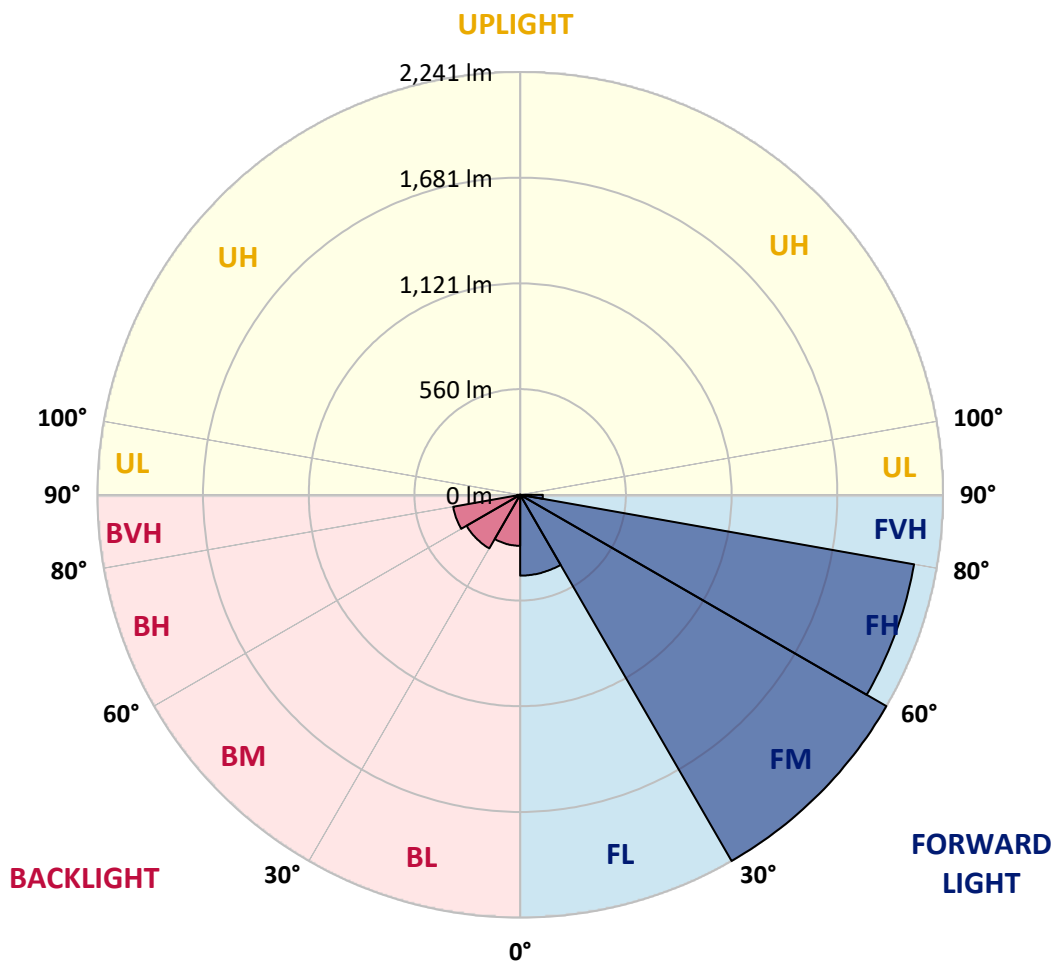
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.3	7.3			
FM	(30°-60°)	2241.2	38.1			
FH	(60°-80°)	2120.3	36.0			G2/5000
FVH	(80°-90°)	120.3	2.0			G2/225
BL	(0°-30°)	270.3	4.6	B1/500		
BM	(30°-60°)	327.7	5.6	B1/1000		
BH	(60°-80°)	360.7	6.1	B1/500		G1/500
BVH	(80°-90°)	16.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1217.2	1219.2	1225.6	1229.7	1248.0	1255.8	1261.3	1266.8	1267.7	1270.3	1267.7
5°	1089.5	1093.8	1105.7	1119.1	1154.5	1182.4	1211.7	1242.1	1247.7	1267.4	1272.9
7.5°	990.5	989.4	999.2	1015.2	1051.5	1090.1	1141.4	1202.1	1214.0	1258.4	1279.9
10°	918.3	917.4	927.8	944.4	978.9	1015.5	1073.5	1156.5	1173.4	1244.2	1286.6
12.5°	864.9	865.2	875.6	893.9	929.0	965.9	1024.8	1112.4	1133.9	1227.6	1293.5
15°	829.5	831.8	840.2	859.6	893.9	930.7	988.5	1079.3	1103.4	1214.6	1301.4
17.5°	817.6	821.3	824.2	838.5	867.8	904.6	961.2	1055.0	1080.5	1205.6	1308.3
20°	828.6	832.9	827.4	832.4	850.9	883.4	939.7	1035.8	1061.9	1195.4	1309.2
22.5°	875.9	880.0	863.7	849.5	848.3	868.1	922.0	1020.7	1047.7	1187.9	1309.5
25°	959.2	961.8	934.5	901.4	869.2	862.5	909.6	1010.3	1039.0	1181.2	1304.0
27.5°	1061.3	1063.4	1032.0	983.3	918.6	875.6	905.2	1004.2	1034.1	1175.4	1294.7
30°	1185.6	1195.1	1153.1	1091.5	997.2	914.2	913.9	1001.0	1028.5	1165.5	1276.4
32.5°	1312.7	1316.7	1287.7	1225.3	1103.1	982.1	938.3	1003.3	1027.1	1153.6	1253.2
35°	1441.5	1446.8	1427.9	1377.7	1248.0	1081.7	985.9	1016.9	1036.1	1149.6	1236.9
37.5°	1608.4	1615.4	1589.3	1531.2	1424.1	1216.6	1065.1	1051.2	1063.7	1161.2	1232.0
40°	1872.2	1869.0	1792.7	1706.2	1616.8	1389.3	1178.3	1109.2	1116.5	1198.6	1247.1
42.5°	2179.3	2171.4	2040.0	1904.1	1828.7	1598.3	1328.1	1209.9	1208.5	1272.3	1300.2
45°	2424.2	2417.8	2299.4	2132.0	2071.6	1836.2	1521.6	1360.0	1349.2	1389.3	1398.3
47.5°	2556.9	2557.1	2488.9	2352.2	2350.8	2138.6	1770.4	1577.1	1558.5	1577.4	1567.8
50°	2510.4	2516.5	2509.3	2465.7	2605.6	2535.1	2095.1	1879.8	1842.3	1860.9	1824.0
52.5°	2285.8	2293.6	2336.6	2403.3	2712.7	3014.2	2572.2	2255.9	2212.4	2205.7	2164.8
55°	1887.6	1897.2	1984.8	2166.2	2623.6	3336.1	3325.1	2735.3	2666.0	2603.0	2585.6
57.5°	1301.1	1317.0	1458.1	1727.4	2335.4	3433.3	4221.6	3418.8	3277.8	3057.8	3061.8
60°	733.4	752.0	918.3	1162.9	1753.8	3327.7	4903.6	4454.0	4156.3	3590.3	3620.5
62.5°	466.4	486.4	612.7	808.0	1052.3	2758.8	5183.1	5893.2	5515.1	4246.8	4276.4
65°	377.6	386.3	445.8	666.9	764.2	1662.1	4970.9	7078.8	6937.8	5080.0	4941.9
67.5°	368.6	371.5	402.2	559.8	732.8	934.2	3965.0	7300.5	7457.0	5858.1	5219.1
70°	364.2	374.4	453.3	534.3	701.8	788.0	2382.7	6692.8	6939.8	6061.6	4850.2
72.5°	176.7	176.2	228.1	483.2	790.6	817.3	1224.2	5415.2	5663.1	5251.6	3985.6
75°	142.5	130.3	124.5	177.0	760.1	844.0	780.1	3726.2	3905.5	3521.0	2450.1
77.5°	135.2	120.7	110.6	110.9	321.3	895.0	660.8	2062.3	2114.6	1590.4	671.3
80°	112.0	98.7	91.4	103.0	155.6	852.4	714.5	933.4	856.4	390.6	223.5
82.5°	77.8	70.8	68.8	86.5	124.5	607.4	830.9	501.5	420.5	195.6	137.9
85°	49.6	42.4	47.0	63.0	96.9	280.4	855.9	390.9	310.8	124.2	77.8
87.5°	22.9	18.6	23.2	34.8	63.3	96.6	814.4	439.1	320.1	65.6	49.0
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°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1270.0	1264.5	1260.1	1252.0	1243.0	1234.3	1226.5	1216.6	1213.7	1211.1	1215.2
5°	1274.1	1268.6	1252.6	1227.6	1200.1	1174.2	1148.4	1126.4	1112.7	1105.2	1109.5
7.5°	1280.2	1272.3	1239.2	1193.4	1143.8	1098.5	1051.8	1014.3	986.8	973.7	977.5
10°	1285.7	1270.6	1216.6	1147.8	1075.3	1007.9	934.2	873.3	828.0	804.2	810.0
12.5°	1288.0	1263.9	1185.0	1090.9	991.4	892.7	784.2	693.0	628.0	604.2	599.3
15°	1290.3	1256.4	1150.1	1026.2	890.1	750.5	598.4	489.3	435.3	423.4	420.8
17.5°	1290.9	1243.3	1110.7	956.0	771.4	581.3	409.2	339.8	340.1	359.3	361.6
20°	1284.8	1223.9	1062.8	868.6	629.2	402.0	280.9	269.0	312.9	360.7	366.6
22.5°	1270.9	1198.0	1008.5	766.8	466.4	264.7	217.4	230.4	287.0	345.7	352.3
25°	1253.2	1166.7	944.4	648.6	308.8	189.2	182.3	198.2	236.5	275.7	279.5
27.5°	1229.1	1129.5	872.4	513.4	200.5	155.8	160.5	171.2	186.9	204.3	206.1
30°	1198.0	1085.1	795.5	374.4	151.5	140.2	146.9	152.7	159.3	169.2	170.1
32.5°	1162.3	1042.5	716.6	258.6	134.4	132.1	137.3	140.2	145.4	151.5	152.1
35°	1132.4	1001.8	634.7	182.8	127.1	126.0	129.4	130.6	135.5	142.2	142.8
37.5°	1115.3	968.8	550.3	147.4	122.2	120.4	122.5	122.5	129.4	139.3	140.8
40°	1116.5	950.5	465.8	133.2	118.1	115.8	116.1	116.1	125.1	135.8	136.7
42.5°	1148.1	955.1	390.9	127.7	114.9	112.3	110.9	111.7	119.3	126.2	126.8
45°	1222.4	987.9	320.7	124.2	111.7	110.9	107.7	107.4	110.3	113.5	113.5
47.5°	1344.3	1052.6	273.1	121.9	109.1	108.8	105.1	101.3	101.0	102.2	102.2
50°	1542.5	1164.1	241.2	119.3	107.4	105.1	100.7	94.9	92.9	93.7	93.7
52.5°	1839.7	1362.9	229.0	115.8	103.6	99.8	94.9	89.1	87.4	87.6	87.6
55°	2229.5	1668.2	227.2	111.7	99.5	93.5	89.4	85.0	83.0	83.6	83.6
57.5°	2705.7	2090.5	258.3	105.4	94.0	87.1	84.7	81.8	80.4	81.3	81.0
60°	3284.7	2643.1	383.1	98.7	88.5	81.3	81.3	78.9	77.8	78.7	78.4
62.5°	3951.7	3277.8	538.7	93.7	82.7	76.6	77.8	76.6	75.5	76.0	75.7
65°	4543.1	3691.3	504.4	90.0	76.9	72.3	74.3	73.7	72.8	73.4	73.1
67.5°	4560.3	3538.1	283.3	85.9	71.4	67.9	70.8	70.5	69.9	70.5	70.2
70°	4069.8	2987.5	159.6	78.4	65.6	62.7	66.8	66.5	65.9	67.0	66.8
72.5°	3260.6	2168.0	116.7	69.1	59.8	57.2	61.8	61.5	61.5	63.3	62.4
75°	1876.3	1115.6	93.2	59.2	53.7	51.7	55.7	56.0	56.6	58.9	57.2
77.5°	534.9	347.7	76.0	50.2	46.1	45.3	49.3	49.9	50.2	52.8	50.5
80°	198.8	160.2	62.7	42.1	37.7	38.0	41.8	42.7	43.0	45.6	42.7
82.5°	126.8	105.6	50.8	32.5	29.6	29.3	34.0	35.1	35.1	35.4	33.7
85°	74.0	63.3	38.3	23.5	20.9	20.0	25.2	27.3	26.4	25.8	24.7
87.5°	49.6	43.5	23.5	13.1	11.3	10.7	14.8	16.3	15.7	14.8	13.9
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)