

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: P450458

Luminaire Tested: **GALN-SA1B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450458
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-SA1B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5234 lumens
Efficiency: N/A
Efficacy: 119.0 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

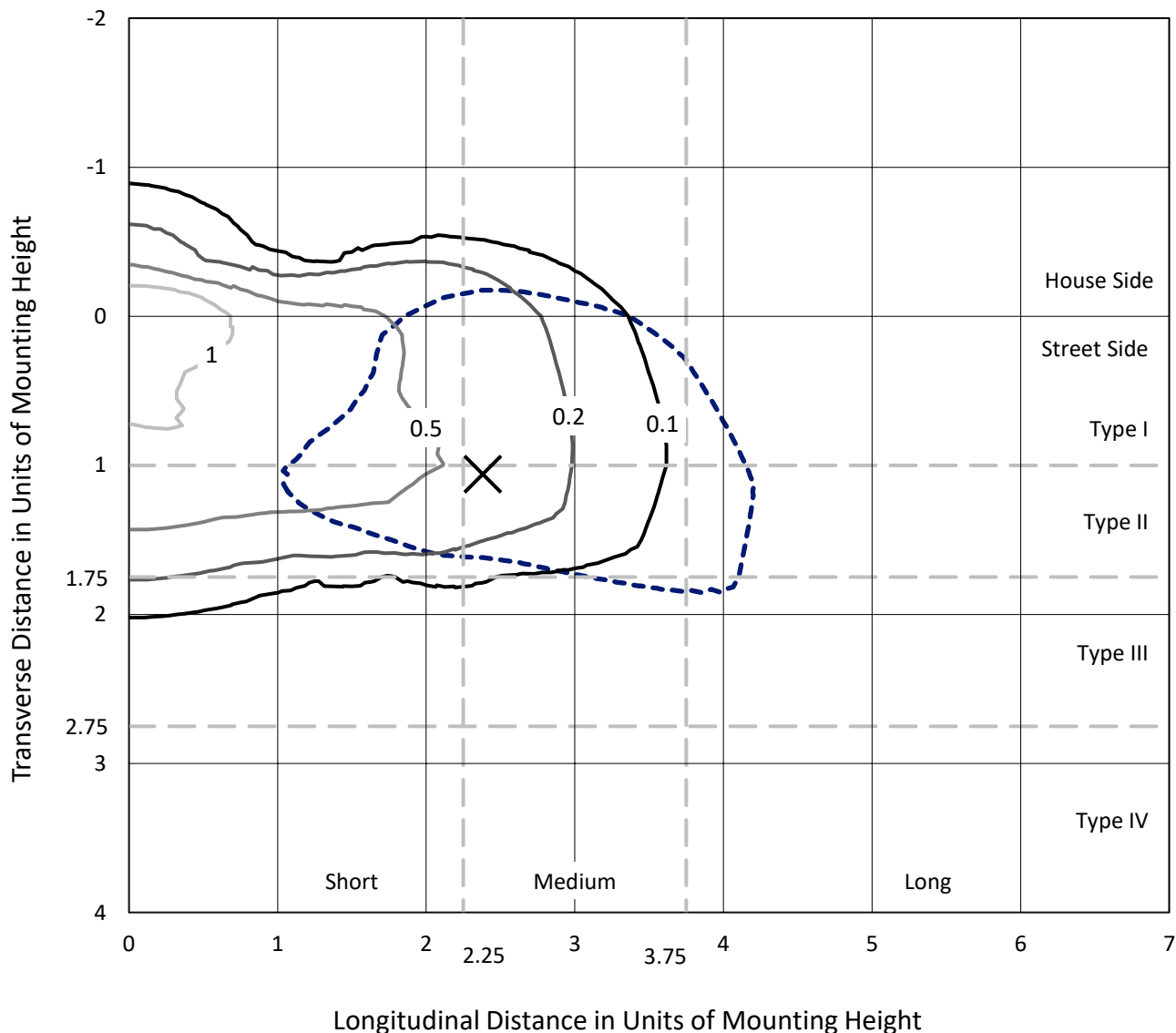
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

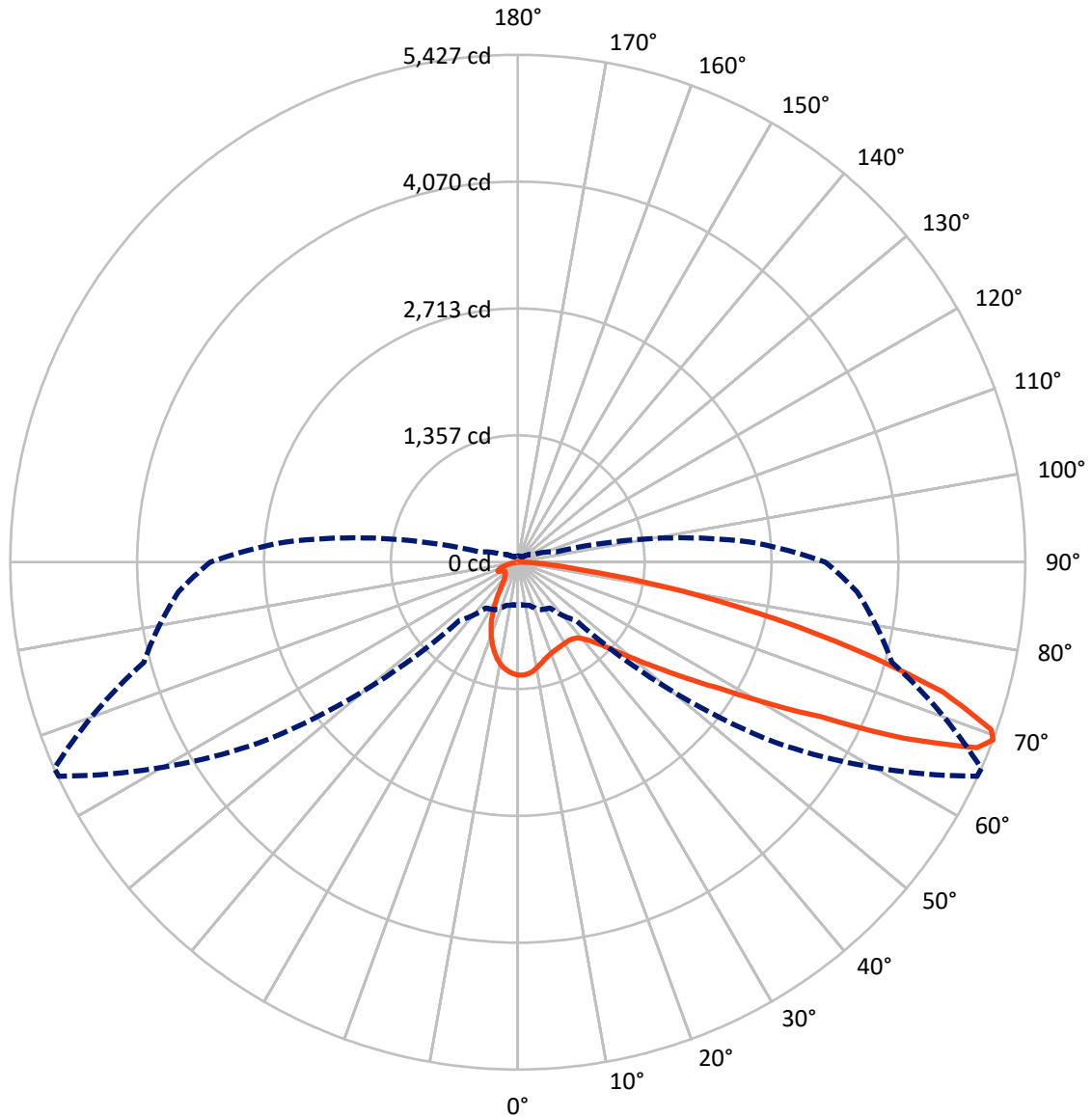
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	984.3	0.0	984.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4249.7	0.0	4249.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	5234.0	0.0	5234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.0
10°-20°	249.0	4.8
20°-30°	338.9	6.5
30°-40°	455.4	8.7
40°-50°	680.0	13.0
50°-60°	1081.7	20.7
60°-70°	1330.5	25.4
70°-80°	865.7	16.5
80°-90°	127.8	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°	5234.0	100.0
0°-180°	5234.0	100.0



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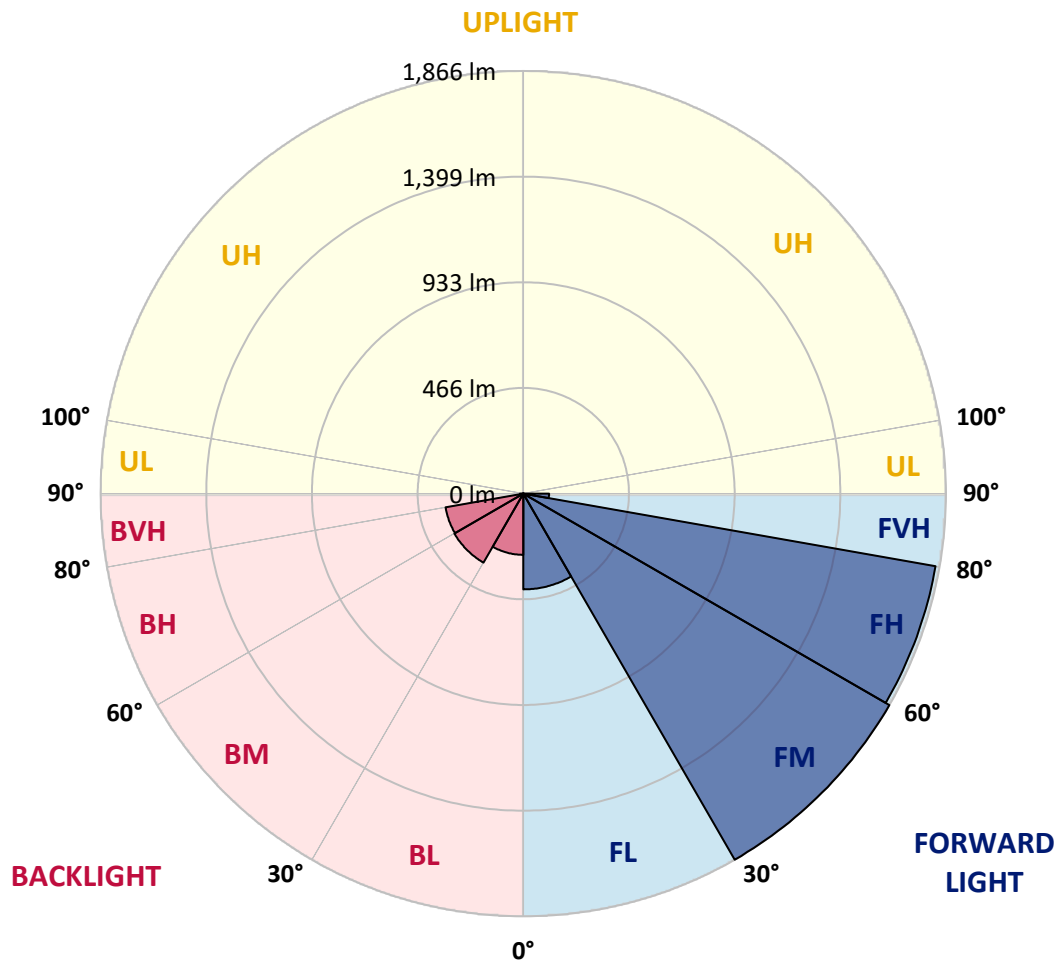
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.6	8.1			
FM (30°-60°)	1865.8	35.6			
FH (60°-80°)	1847.6	35.3			G2/5000
FVH (80°-90°)	113.7	2.2			G2/225
BL (0°-30°)	270.2	5.2	B1/500		
BM (30°-60°)	351.4	6.7	B1/1000		
BH (60°-80°)	348.5	6.7	B1/500		G1/500
BVH (80°-90°)	14.2	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°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1166.4	1171.0	1176.2	1182.0	1193.0	1199.1	1203.5	1208.4	1209.0	1211.6	1209.5
5°	1080.3	1085.8	1093.6	1104.6	1121.1	1146.9	1173.6	1195.3	1198.0	1210.1	1213.6
7.5°	1008.4	1011.6	1018.0	1035.6	1059.1	1087.8	1126.6	1170.7	1177.1	1206.1	1216.2
10°	949.8	953.0	960.6	978.8	1002.0	1038.0	1080.6	1138.5	1143.7	1193.6	1216.8
12.5°	906.1	909.0	917.1	935.1	961.7	995.3	1042.3	1103.8	1111.3	1177.1	1211.3
15°	872.7	878.2	884.9	899.7	927.8	960.3	1005.8	1071.9	1078.0	1159.7	1207.5
17.5°	858.5	861.1	865.8	879.4	900.0	931.9	977.7	1046.9	1054.2	1147.5	1206.6
20°	859.1	861.7	862.6	870.1	884.9	912.4	957.7	1027.2	1035.9	1136.8	1208.1
22.5°	878.8	879.1	875.9	873.3	879.1	902.0	943.5	1012.4	1022.6	1132.2	1209.3
25°	909.3	914.5	909.8	897.7	886.9	898.0	938.0	1004.3	1013.9	1125.5	1207.8
27.5°	958.5	959.4	955.6	939.1	911.3	903.2	935.6	998.2	1006.4	1120.6	1200.6
30°	1024.6	1022.0	1018.5	1000.3	956.5	923.2	940.6	992.7	1001.1	1113.3	1191.9
32.5°	1091.6	1099.7	1096.5	1075.1	1018.2	962.0	956.5	992.2	999.1	1107.8	1182.3
35°	1162.6	1166.4	1181.4	1170.4	1112.2	1024.9	986.4	1001.1	1006.7	1108.1	1175.6
37.5°	1218.2	1228.4	1263.7	1273.3	1218.5	1108.1	1034.8	1026.6	1029.0	1122.3	1178.2
40°	1285.5	1302.9	1348.4	1387.5	1351.6	1216.2	1117.1	1073.9	1076.8	1156.5	1195.3
42.5°	1370.7	1382.9	1444.0	1497.1	1491.3	1359.1	1216.8	1151.3	1152.7	1224.6	1243.2
45°	1470.4	1487.8	1556.5	1636.2	1649.8	1520.8	1360.8	1268.4	1267.5	1330.4	1332.4
47.5°	1597.9	1608.7	1676.8	1763.7	1818.8	1724.0	1535.6	1436.5	1427.2	1484.6	1468.1
50°	1715.3	1732.1	1783.7	1878.8	2015.9	1962.0	1765.5	1654.5	1632.7	1686.3	1658.5
52.5°	1764.6	1782.3	1825.8	1943.7	2184.9	2269.8	2057.4	1914.5	1878.2	1919.4	1909.2
55°	1679.1	1702.0	1742.6	1886.1	2259.1	2624.9	2451.0	2215.0	2188.7	2171.0	2173.9
57.5°	1449.3	1471.0	1525.8	1684.0	2170.4	2882.6	3013.0	2601.4	2544.9	2463.4	2477.4
60°	1103.2	1116.8	1145.2	1320.6	1907.5	2949.5	3651.2	3089.8	3053.9	2754.7	2764.6
62.5°	783.5	798.8	818.5	906.1	1396.5	2760.8	4150.9	3771.8	3643.4	3056.5	3046.9
65°	636.2	625.8	649.6	690.4	819.4	2139.7	4263.4	4718.5	4541.7	3453.9	3321.1
67.5°	523.2	512.2	535.6	608.4	623.2	1242.0	3858.2	5333.0	5297.6	3886.0	3599.7
69°	463.2	457.4	478.0	560.9	598.3	882.0	3361.1	5418.5	5426.9	4140.8	3642.5
70°	417.4	419.7	439.7	536.8	586.9	727.2	2872.7	5300.5	5371.8	4268.0	3596.2
72.5°	307.2	312.2	340.0	444.6	576.2	617.1	1709.5	4629.8	4755.9	4275.6	3289.8
75°	214.8	212.5	237.1	334.8	544.3	611.6	1004.0	3580.5	3723.4	3695.6	2764.3
77.5°	140.6	144.3	164.1	236.5	458.0	606.9	654.5	2540.2	2633.0	2471.6	1635.0
80°	99.1	98.8	109.9	161.4	339.7	583.2	535.9	1601.1	1577.7	971.3	484.9
82.5°	56.8	60.9	73.6	113.6	227.2	513.3	493.0	765.8	699.1	276.8	163.8
85°	31.6	33.0	43.8	68.7	132.8	386.7	430.4	348.4	328.7	115.7	70.4
87.5°	10.1	11.0	18.3	34.8	60.3	182.6	243.8	160.9	148.4	41.7	28.4
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°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1210.4	1213.9	1204.6	1195.6	1187.5	1176.2	1166.1	1157.7	1151.9	1151.0	1148.1
5°	1214.5	1214.8	1197.1	1173.3	1150.1	1124.6	1098.2	1079.4	1061.7	1051.9	1046.9
7.5°	1217.4	1214.8	1182.9	1144.3	1099.7	1053.3	1006.9	969.8	941.1	929.8	934.2
10°	1216.2	1208.1	1161.4	1099.7	1034.8	965.5	898.8	846.7	798.8	774.2	774.8
12.5°	1209.8	1196.5	1129.5	1049.5	954.2	861.4	759.4	689.0	633.6	600.9	590.7
15°	1204.3	1181.1	1092.2	981.4	862.9	730.4	606.1	519.1	472.7	446.9	446.7
17.5°	1198.5	1166.4	1051.3	909.3	758.0	587.5	457.1	390.7	369.0	371.6	367.2
20°	1192.4	1149.0	1008.7	829.0	630.1	438.3	342.3	315.4	321.4	333.3	335.1
22.5°	1185.5	1130.4	962.9	740.6	495.6	329.8	277.7	273.6	289.3	307.8	310.4
25°	1174.8	1107.2	905.2	648.1	382.3	265.8	243.2	246.1	261.4	277.1	278.8
27.5°	1159.7	1078.5	846.9	532.7	287.2	228.1	222.3	226.1	233.6	243.2	245.5
30°	1139.4	1046.1	780.0	433.0	230.1	209.3	207.0	209.0	213.3	217.4	218.5
32.5°	1119.1	1014.8	712.5	331.6	205.2	196.8	194.5	194.5	194.5	195.1	195.4
35°	1100.3	985.2	640.0	258.3	192.2	187.0	183.8	180.3	179.7	177.7	177.7
37.5°	1089.8	958.2	562.9	216.2	182.6	178.8	174.5	168.7	165.5	165.8	165.2
40°	1091.9	940.6	492.7	192.5	174.8	170.7	164.1	157.4	155.4	155.4	154.8
42.5°	1114.8	934.8	425.5	180.0	167.2	162.6	154.2	148.1	147.0	146.7	147.2
45°	1167.5	949.0	365.2	171.9	160.9	153.9	145.5	140.0	138.8	138.8	138.5
47.5°	1270.4	995.1	322.0	166.7	156.2	147.2	138.5	133.0	131.0	130.4	130.4
50°	1430.4	1095.1	289.9	162.0	150.4	141.2	132.2	125.8	122.6	122.3	122.0
52.5°	1652.7	1251.0	277.4	158.5	144.1	134.8	124.9	118.8	114.8	113.9	113.3
55°	1912.7	1468.7	294.5	155.9	137.4	127.5	117.4	111.0	107.2	105.5	105.2
57.5°	2213.9	1730.1	359.4	152.5	131.3	119.7	109.9	103.5	99.4	97.4	96.8
60°	2484.3	1998.8	472.7	150.4	126.1	111.3	101.2	95.4	91.6	89.6	89.3
62.5°	2781.4	2255.0	608.1	155.9	123.8	103.2	93.0	87.8	84.6	82.6	82.6
65°	3098.8	2511.6	697.7	174.5	127.2	96.8	84.3	80.0	77.1	75.7	75.4
67.5°	3312.7	2600.2	574.8	193.6	135.9	89.9	75.9	72.5	70.7	69.3	69.3
69°	3289.5	2488.1	424.1	198.5	138.5	86.4	71.3	68.7	66.4	65.8	65.2
70°	3216.2	2360.3	355.4	195.4	136.5	83.2	68.4	65.2	63.2	62.6	62.3
72.5°	2864.6	2046.9	264.6	169.9	116.2	72.2	60.6	57.7	55.9	55.1	55.1
75°	2380.0	1673.0	206.7	135.1	91.0	60.9	51.9	49.6	48.1	47.5	47.2
77.5°	1333.9	934.2	148.4	105.8	69.0	49.3	43.5	41.4	40.0	39.4	39.4
80°	371.6	267.0	87.2	69.9	47.0	37.4	34.5	33.0	31.0	29.6	30.4
82.5°	140.0	115.7	49.9	42.0	29.9	24.9	24.1	22.9	22.0	20.0	20.0
85°	68.1	56.2	31.9	22.3	16.5	13.0	12.5	11.9	11.3	9.9	10.1
87.5°	23.5	24.9	13.9	8.1	4.9	3.2	2.6	1.4	1.4	1.4	1.4
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)