

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: P194091

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-T4W-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9701 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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

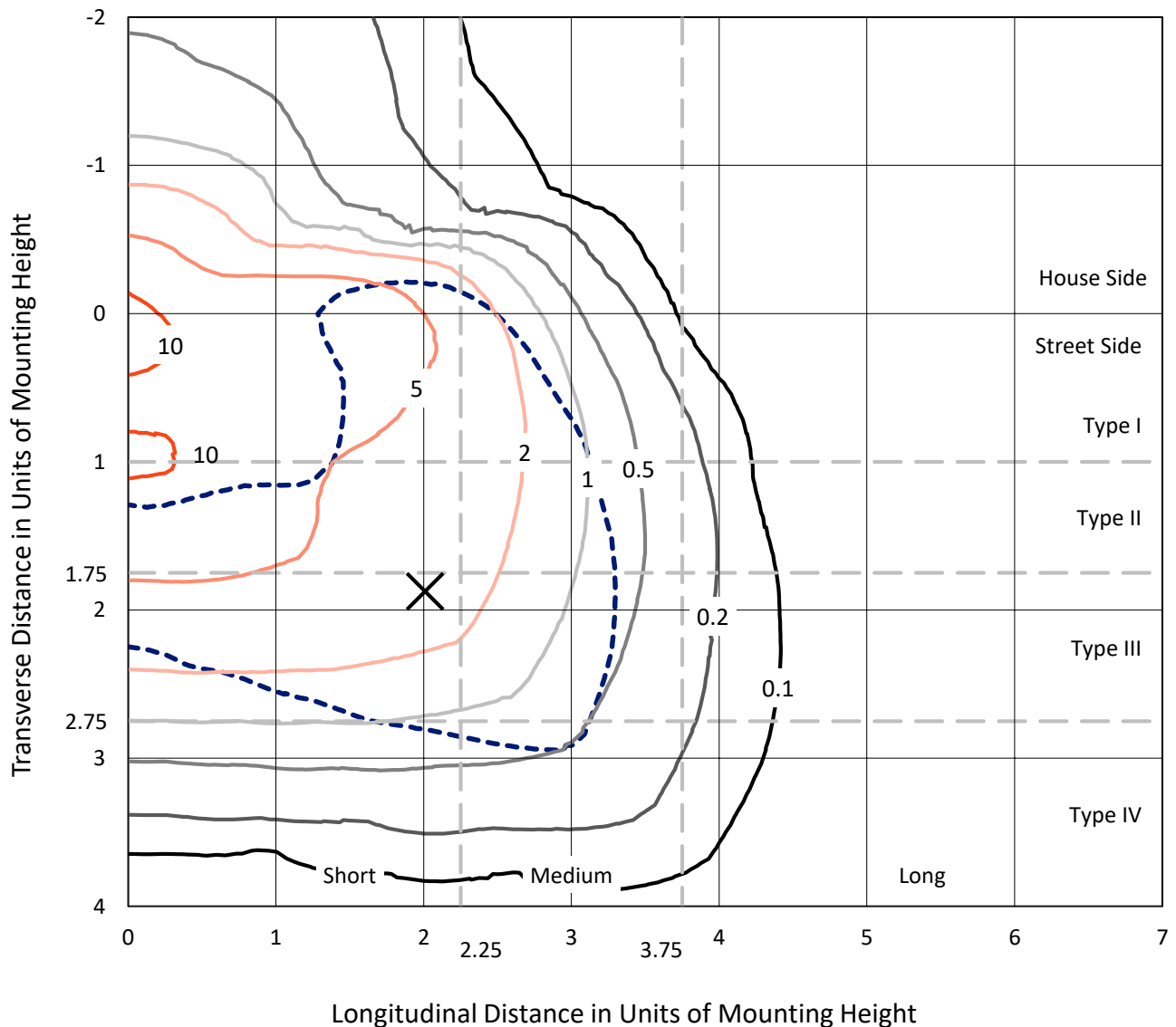


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

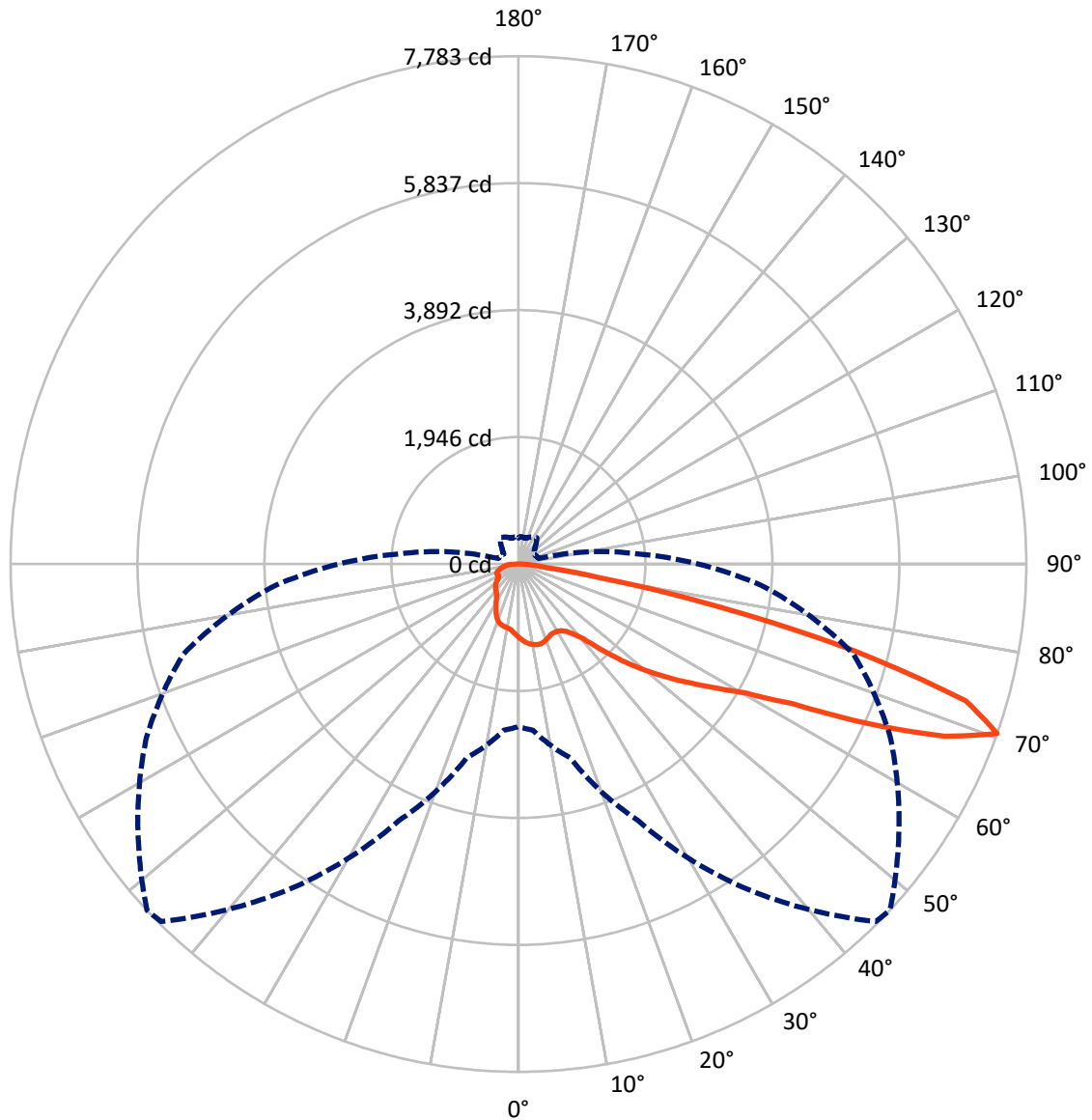


Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2023.8	0.0	2023.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7677.2	0.0	7677.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9701.0	0.0	9701.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	1.1
10°-20°	316.4	3.3
20°-30°	467.3	4.8
30°-40°	679.2	7.0
40°-50°	1222.2	12.6
50°-60°	2117.4	21.8
60°-70°	3022.1	31.2
70°-80°	1551.4	16.0
80°-90°	217.2	2.2
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°	9701.0	100.0
0°-180°	9701.0	100.0



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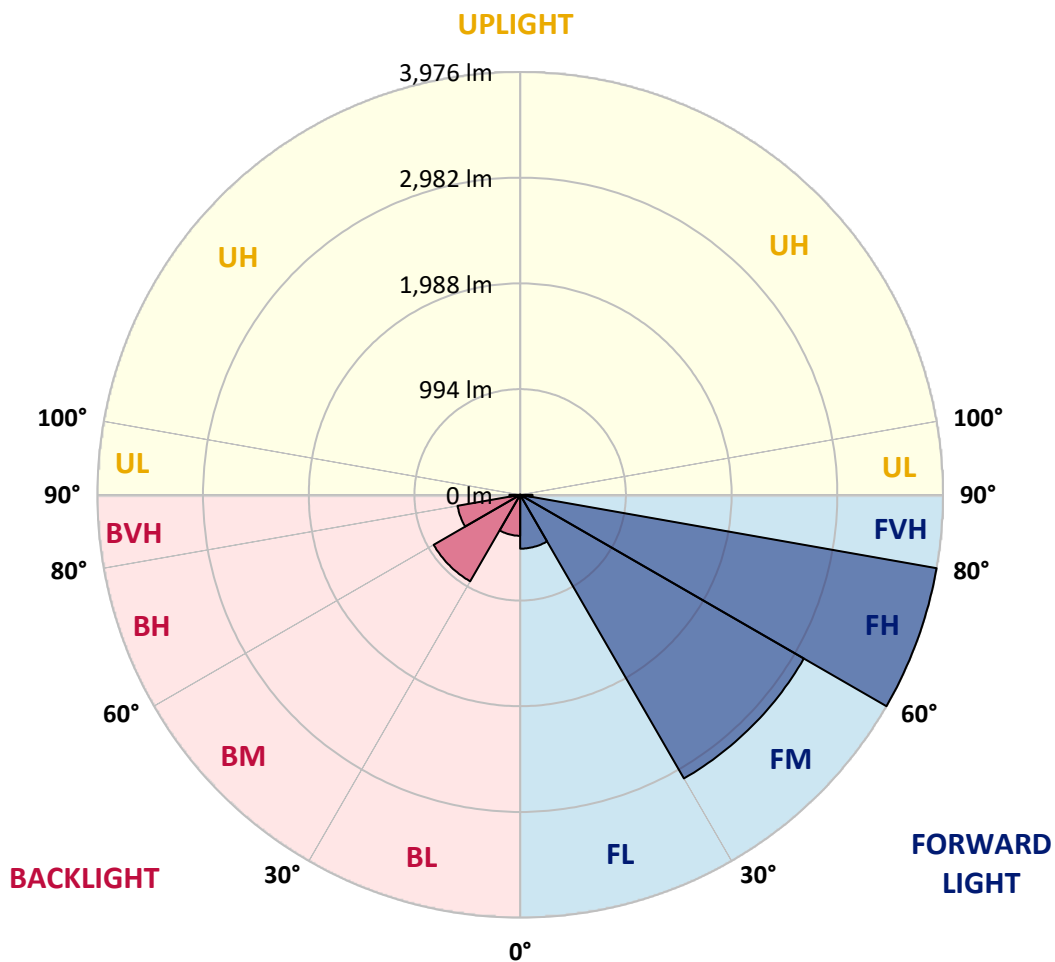
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.2	5.2			
FM	(30°-60°)	3079.4	31.7			
FH	(60°-80°)	3975.7	41.0			G2/5000
FVH	(80°-90°)	115.9	1.2			G2/225
BL	(0°-30°)	385.3	4.0	B1/500		
BM	(30°-60°)	939.4	9.7	B1/1000		
BH	(60°-80°)	597.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	101.3	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6
2.5°	1191.7	1189.3	1188.4	1186.5	1184.1	1172.3	1170.0	1161.5	1149.7	1137.4	1124.7
5°	1270.0	1269.6	1264.4	1254.9	1239.8	1213.9	1207.7	1187.0	1159.1	1132.2	1105.3
7.5°	1338.9	1334.7	1324.8	1305.9	1279.5	1244.1	1235.6	1206.8	1168.6	1131.8	1095.4
10°	1389.4	1387.1	1365.4	1339.4	1305.0	1265.8	1255.9	1223.8	1181.8	1135.1	1089.7
12.5°	1418.2	1413.5	1388.5	1357.3	1316.3	1278.1	1268.1	1235.6	1188.4	1135.1	1081.7
15°	1416.3	1413.0	1388.0	1354.0	1312.5	1279.0	1270.0	1237.5	1187.0	1130.3	1071.3
17.5°	1378.6	1380.0	1358.8	1325.3	1291.3	1265.8	1257.8	1227.6	1177.5	1120.9	1059.1
20°	1312.5	1319.1	1305.0	1275.2	1256.4	1238.9	1233.7	1208.2	1162.9	1107.2	1045.9
22.5°	1246.4	1252.6	1246.9	1221.9	1219.1	1208.7	1205.9	1187.4	1150.2	1098.7	1037.8
25°	1197.8	1203.5	1202.5	1180.8	1189.3	1188.9	1186.5	1177.5	1147.3	1098.7	1039.2
27.5°	1184.6	1186.5	1184.6	1164.8	1176.6	1186.0	1184.1	1182.7	1155.8	1112.4	1057.2
30°	1229.9	1227.1	1212.5	1172.3	1183.2	1196.4	1194.5	1195.5	1181.3	1148.3	1097.3
32.5°	1410.7	1397.9	1351.7	1238.9	1210.1	1217.2	1218.1	1233.7	1236.1	1203.5	1159.6
35°	1681.1	1667.0	1607.0	1417.3	1293.6	1269.1	1269.1	1292.7	1306.8	1282.8	1256.4
37.5°	1967.6	1952.0	1919.9	1664.6	1469.2	1359.2	1356.9	1373.4	1393.7	1399.4	1406.0
40°	2293.2	2276.7	2285.7	1942.1	1714.1	1515.5	1481.9	1470.1	1524.9	1561.2	1614.1
42.5°	2649.6	2642.0	2645.3	2251.2	1993.1	1749.1	1701.4	1640.5	1706.6	1771.3	1882.2
45°	2979.5	2986.1	2982.8	2582.1	2303.6	2034.1	1983.6	1865.6	1930.3	2041.2	2222.0
47.5°	3268.3	3240.9	3283.4	2943.6	2651.5	2353.2	2290.9	2132.8	2198.4	2335.2	2641.1
50°	3619.0	3615.2	3552.9	3425.9	3072.0	2673.6	2592.0	2408.9	2510.8	2701.0	3169.2
52.5°	3987.6	3919.1	3862.0	3801.1	3518.0	3002.1	2902.1	2684.0	2878.0	3117.3	3812.9
55°	4063.1	4032.4	4103.2	4205.6	3947.9	3343.3	3226.8	3029.0	3291.4	3593.0	4555.3
57.5°	4224.5	4224.0	4370.3	4553.0	4390.6	3705.3	3587.8	3445.8	3756.3	4138.1	5343.5
60°	4333.5	4364.2	4636.0	4990.5	4825.3	4123.5	4015.4	3926.7	4284.9	4747.4	6077.9
62.5°	4390.6	4432.2	4803.1	5167.9	5439.8	4819.6	4711.5	4583.6	4984.3	5415.7	6507.3
65°	4153.2	4234.9	4777.2	5321.3	5977.8	5948.1	5899.5	5674.8	5858.9	5943.8	6352.1
67.5°	3496.3	3579.8	4211.3	5178.3	6362.0	7036.4	7046.8	6663.1	6396.9	5989.1	5340.7
70°	2491.0	2556.6	3079.0	4341.5	6069.4	7747.6	7783.0	7118.5	6289.8	5311.4	3731.3
72.5°	1182.7	1222.8	1717.5	2825.6	4816.3	7098.7	7167.1	6537.1	5348.2	3932.3	2035.6
75°	434.7	446.9	580.5	1202.1	2793.5	5234.9	5315.7	4686.1	3545.3	1957.7	775.4
77.5°	260.5	268.5	325.7	507.4	1098.7	2992.2	3111.6	2548.6	1549.4	728.7	381.3
80°	182.2	187.8	233.6	315.7	519.2	1140.2	1246.4	1040.2	617.3	461.1	277.5
82.5°	123.2	126.0	164.2	213.3	345.0	407.3	439.4	462.5	416.3	343.1	176.0
85°	80.7	83.5	111.4	140.6	219.5	210.5	215.2	272.3	303.9	233.1	97.7
87.5°	46.3	48.1	67.0	75.0	107.6	89.2	90.1	143.5	194.4	157.2	59.5
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°	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6	1125.6
2.5°	1121.4	1115.2	1101.5	1093.1	1085.0	1083.1	1079.8	1079.4	1078.9	1078.9	1077.5
5°	1096.4	1086.0	1064.7	1052.9	1043.0	1042.1	1041.6	1044.0	1044.9	1045.9	1044.4
7.5°	1080.3	1066.2	1039.7	1022.7	1010.9	1008.1	1012.8	1023.7	1030.8	1033.6	1032.2
10°	1070.4	1052.9	1022.3	1003.9	993.9	992.5	998.7	1011.4	1026.0	1031.7	1031.2
12.5°	1059.1	1039.2	1006.7	987.3	981.7	984.5	992.5	1004.3	1019.4	1028.4	1028.9
15°	1047.7	1024.6	991.1	974.1	971.8	975.5	983.1	992.1	1003.9	1012.8	1013.8
17.5°	1034.1	1010.0	976.5	959.0	957.1	959.0	959.5	964.2	971.8	980.3	982.6
20°	1019.4	994.9	960.0	942.5	934.0	926.5	918.0	918.9	921.3	929.8	931.6
22.5°	1009.0	984.5	947.2	923.1	900.5	877.8	860.8	858.5	859.4	866.5	868.9
25°	1010.0	984.0	943.9	902.4	852.8	816.5	793.8	790.1	789.6	794.8	798.1
27.5°	1028.4	1002.4	956.2	881.1	800.9	747.1	723.0	720.2	716.4	717.8	721.6
30°	1069.5	1045.4	985.9	859.4	744.7	679.1	654.1	651.3	646.1	643.7	646.6
32.5°	1136.5	1116.7	1029.3	838.7	688.6	621.1	595.6	589.5	586.2	583.3	585.7
35°	1247.9	1239.4	1087.4	816.0	639.0	576.3	553.1	543.7	539.0	544.2	547.9
37.5°	1422.5	1427.2	1163.4	780.6	600.8	546.5	527.2	516.3	509.2	513.5	517.7
40°	1669.8	1673.1	1247.4	730.6	567.8	529.1	508.3	498.4	488.5	480.9	480.5
42.5°	1994.5	1961.0	1330.0	676.3	529.5	518.2	495.1	482.8	467.7	446.9	442.7
45°	2379.6	2262.1	1392.7	614.0	486.6	505.0	480.5	463.5	439.9	417.2	414.9
47.5°	2823.2	2585.4	1423.4	549.4	446.5	485.6	462.5	435.6	405.9	394.6	393.1
50°	3365.1	2969.1	1438.1	486.6	411.5	460.2	436.6	404.9	379.9	377.6	376.1
52.5°	3981.9	3430.7	1442.8	435.1	382.8	427.1	415.3	384.6	364.8	366.7	366.7
55°	4627.5	3907.3	1378.6	397.9	356.3	393.1	401.2	376.6	360.1	367.7	370.5
57.5°	5220.3	4329.7	1176.6	369.1	331.3	367.2	396.0	384.2	372.8	403.5	405.4
60°	5675.3	4579.4	878.8	343.1	312.9	358.2	409.7	413.0	415.8	488.9	498.9
62.5°	5770.6	4496.3	604.1	322.8	304.4	365.8	434.7	435.1	431.8	482.8	488.9
65°	5333.1	3971.0	439.4	311.5	297.3	379.5	455.9	446.0	424.3	463.0	451.7
67.5°	4235.3	2991.7	365.8	303.0	286.9	378.5	478.6	455.9	420.0	453.6	435.1
70°	2749.2	1809.0	325.7	295.9	274.7	360.6	491.8	455.0	407.8	421.9	400.2
72.5°	1341.3	808.9	298.7	285.5	261.9	335.6	491.3	446.5	395.0	394.1	382.3
75°	524.8	370.5	274.2	270.0	240.2	307.2	478.1	434.2	379.9	364.8	360.6
77.5°	307.2	264.3	243.1	246.8	214.3	278.9	458.7	413.0	359.2	341.2	336.5
80°	223.7	197.8	207.2	213.3	183.1	250.6	432.8	387.0	336.0	345.0	338.4
82.5°	143.5	127.4	168.0	174.2	152.4	221.8	404.5	359.6	303.5	275.6	269.0
85°	73.2	80.7	125.1	132.6	117.5	182.2	370.0	323.3	266.7	229.4	233.1
87.5°	41.1	55.2	79.8	89.2	83.1	140.2	300.2	266.7	217.6	177.0	155.7
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)