

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: P450806

Luminaire Tested: **GALN-SA1C-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450806  
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-SA1C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 5220 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

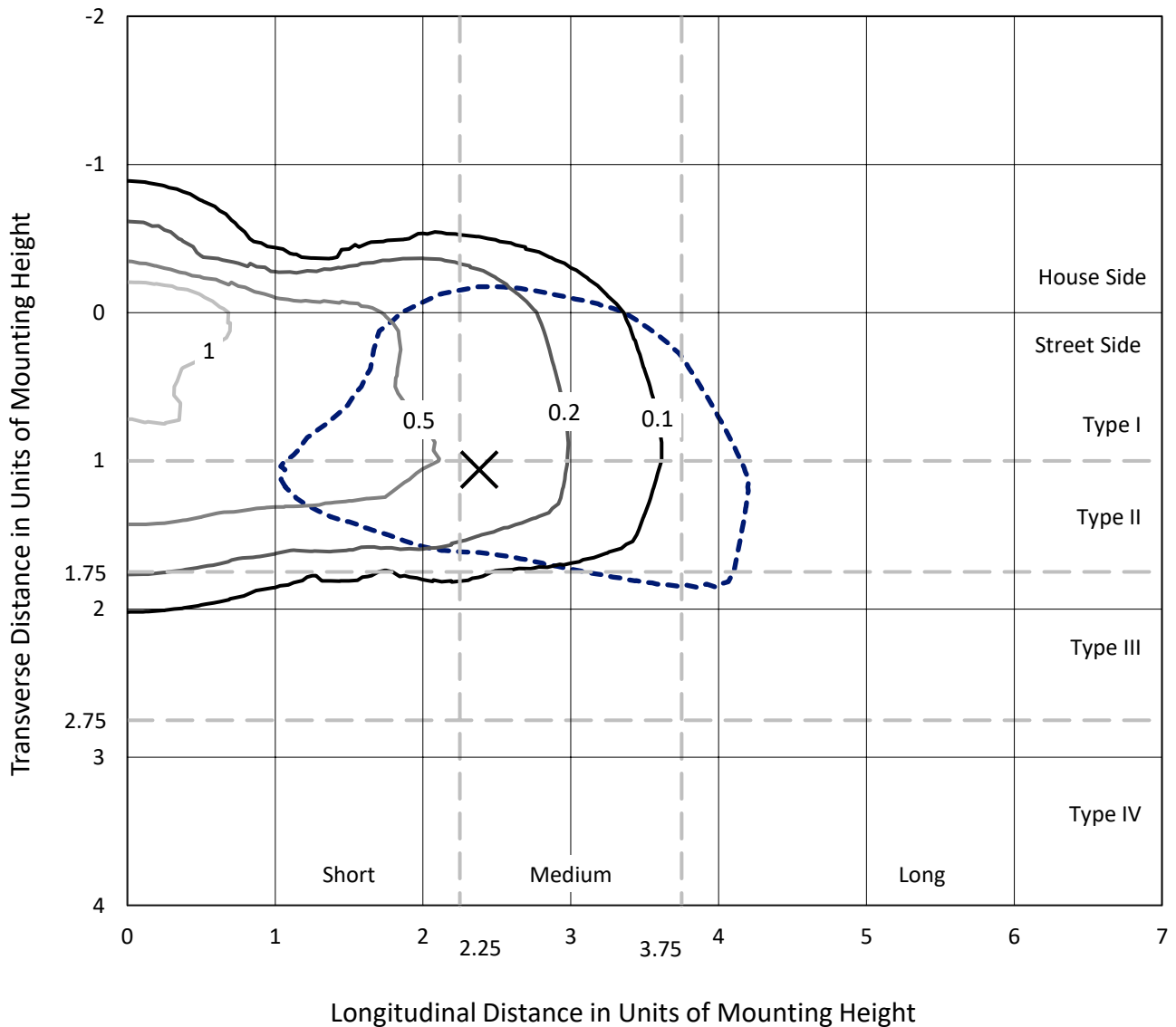
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

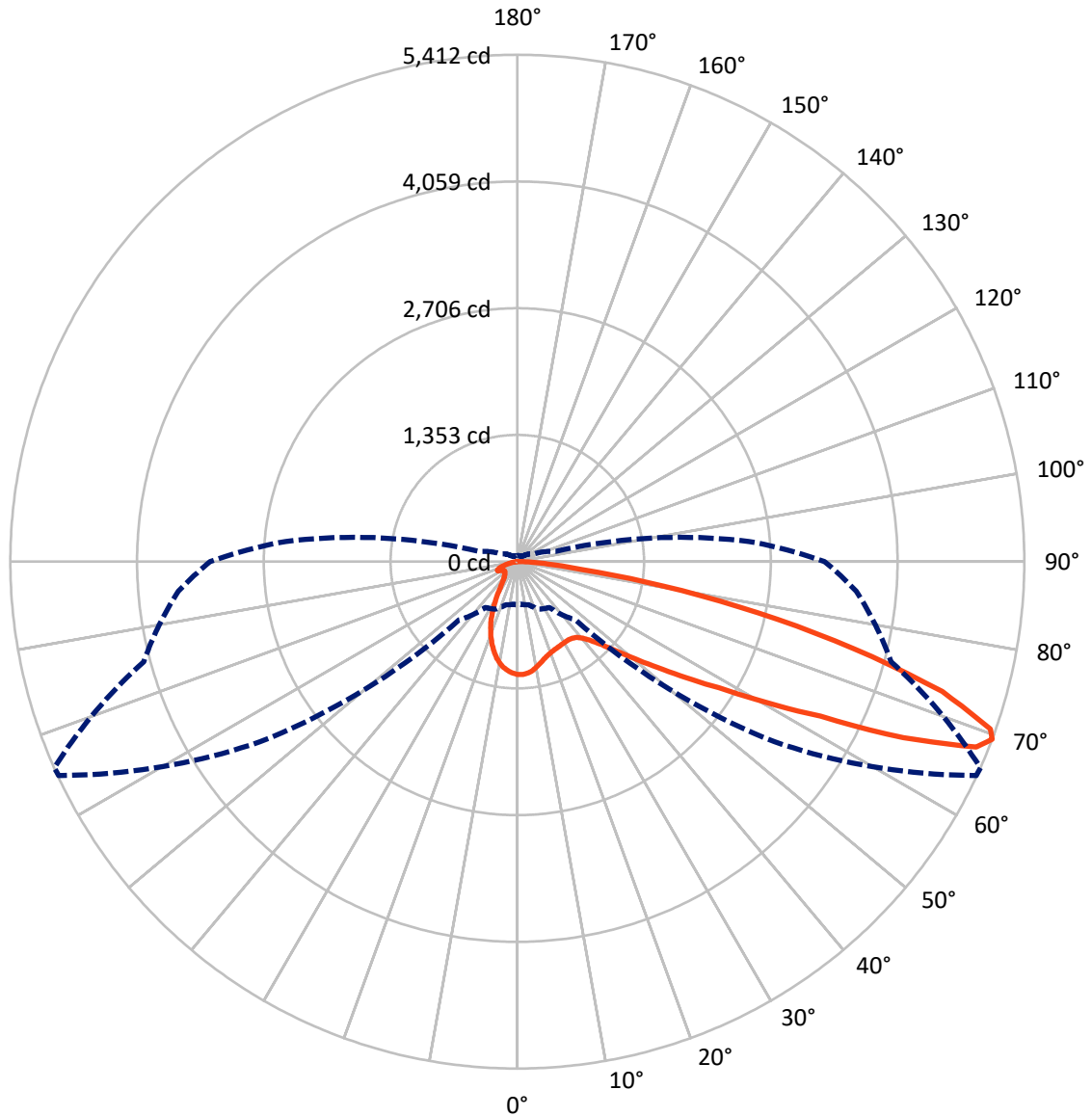
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	981.7	0.0	981.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4238.3	0.0	4238.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5220.0	0.0	5220.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	2.0
10°-20°	248.3	4.8
20°-30°	338.0	6.5
30°-40°	454.2	8.7
40°-50°	678.2	13.0
50°-60°	1078.8	20.7
60°-70°	1326.9	25.4
70°-80°	863.3	16.5
80°-90°	127.5	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°	5220.0	100.0
0°-180°	5220.0	100.0



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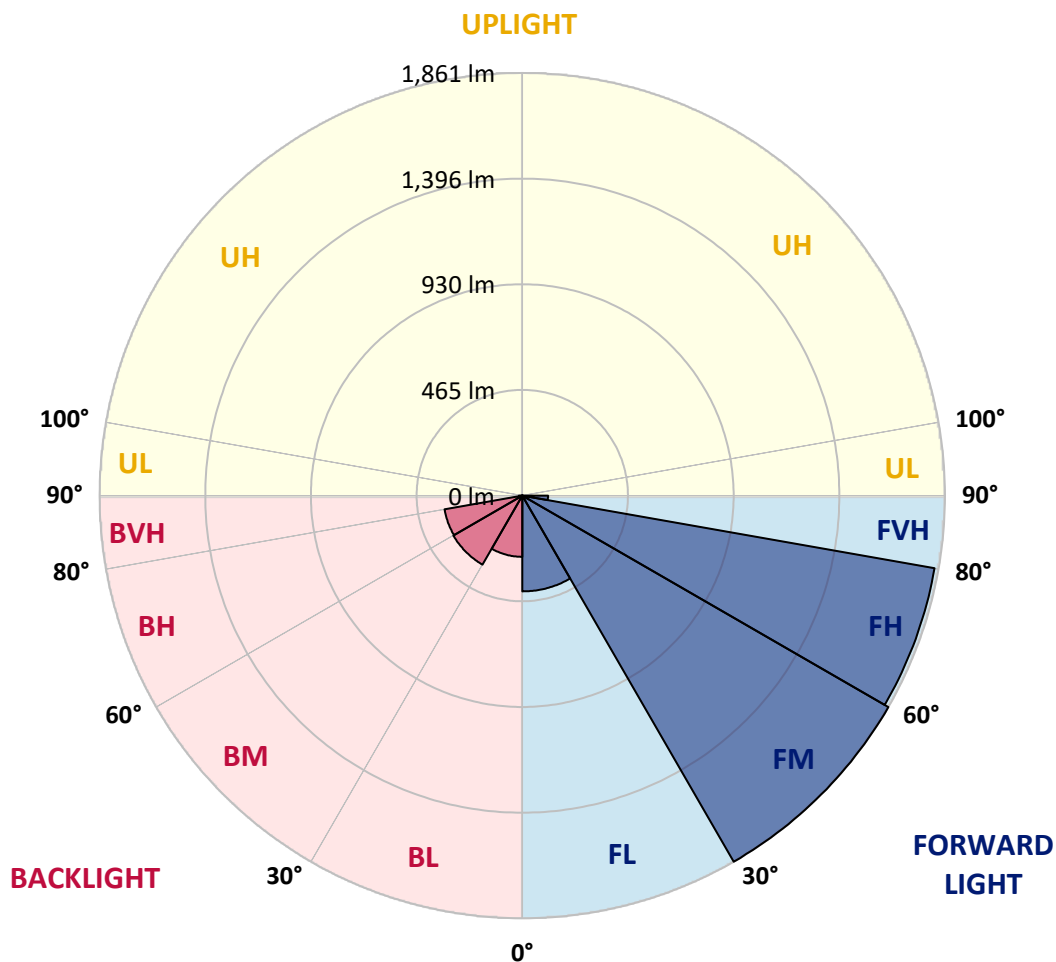
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.5	8.1			
FM	(30°-60°)	1860.8	35.6			
FH	(60°-80°)	1842.7	35.3			G2/5000
FVH	(80°-90°)	113.3	2.2			G2/225
BL	(0°-30°)	269.5	5.2	B1/500		
BM	(30°-60°)	350.5	6.7	B1/1000		
BH	(60°-80°)	347.6	6.7	B1/500		G1/500
BVH	(80°-90°)	14.1	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°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1163.2	1167.9	1173.1	1178.8	1189.8	1195.9	1200.2	1205.2	1205.7	1208.3	1206.3
5°	1077.4	1082.9	1090.7	1101.7	1118.1	1143.9	1170.5	1192.1	1194.7	1206.9	1210.4
7.5°	1005.7	1008.9	1015.2	1032.9	1056.3	1084.9	1123.6	1167.6	1173.9	1202.8	1213.0
10°	947.3	950.5	958.0	976.2	999.3	1035.2	1077.7	1135.5	1140.7	1190.4	1213.5
12.5°	903.6	906.5	914.6	932.6	959.2	992.7	1039.5	1100.8	1108.3	1173.9	1208.0
15°	870.4	875.9	882.5	897.3	925.3	957.7	1003.1	1069.0	1075.1	1156.6	1204.3
17.5°	856.2	858.8	863.5	877.1	897.6	929.4	975.1	1044.1	1051.4	1144.4	1203.4
20°	856.8	859.4	860.3	867.8	882.5	910.0	955.1	1024.5	1033.2	1133.8	1204.9
22.5°	876.5	876.8	873.6	871.0	876.8	899.6	940.9	1009.7	1019.9	1129.1	1206.0
25°	906.8	912.0	907.4	895.3	884.6	895.6	935.4	1001.6	1011.2	1122.5	1204.6
27.5°	956.0	956.8	953.1	936.6	908.9	900.8	933.1	995.6	1003.7	1117.6	1197.3
30°	1021.9	1019.3	1015.8	997.6	953.9	920.7	938.0	990.1	998.5	1110.3	1188.7
32.5°	1088.7	1096.8	1093.6	1072.2	1015.5	959.4	953.9	989.5	996.4	1104.8	1179.1
35°	1159.5	1163.2	1178.3	1167.3	1109.2	1022.2	983.7	998.5	1004.0	1105.1	1172.5
37.5°	1215.0	1225.1	1260.4	1269.9	1215.3	1105.1	1032.0	1023.9	1026.2	1119.3	1175.1
40°	1282.0	1299.4	1344.8	1383.8	1348.0	1213.0	1114.1	1071.0	1073.9	1153.4	1192.1
42.5°	1367.0	1379.2	1440.2	1493.1	1487.3	1355.5	1213.5	1148.2	1149.7	1221.3	1239.8
45°	1466.5	1483.8	1552.3	1631.8	1645.4	1516.8	1357.2	1265.0	1264.1	1326.9	1328.9
47.5°	1593.7	1604.4	1672.3	1759.0	1813.9	1719.4	1531.5	1432.7	1423.4	1480.6	1464.2
50°	1710.7	1727.5	1779.0	1873.8	2010.5	1956.7	1760.8	1650.0	1628.4	1681.8	1654.1
52.5°	1759.9	1777.5	1820.9	1938.5	2179.0	2263.7	2051.9	1909.3	1873.2	1914.3	1904.1
55°	1674.6	1697.4	1737.9	1881.0	2253.1	2617.9	2444.4	2209.1	2182.8	2165.2	2168.1
57.5°	1445.4	1467.1	1521.7	1679.5	2164.6	2874.9	3004.9	2594.4	2538.1	2456.8	2470.7
60°	1100.2	1113.8	1142.1	1317.0	1902.4	2941.6	3641.5	3081.5	3045.7	2747.4	2757.2
62.5°	781.4	796.7	816.3	903.6	1392.8	2753.4	4139.8	3761.7	3633.7	3048.3	3038.8
65°	634.5	624.1	647.8	688.6	817.2	2134.0	4252.0	4705.9	4529.5	3444.6	3312.2
67.5°	521.8	510.8	534.2	606.8	621.5	1238.7	3847.9	5318.7	5283.4	3875.6	3590.0
69°	461.9	456.2	476.7	559.4	596.7	879.7	3352.1	5404.0	5412.4	4129.7	3632.8
70°	416.3	418.6	438.5	535.4	585.4	725.3	2865.0	5286.3	5357.4	4256.6	3586.6
72.5°	306.4	311.3	339.1	443.4	574.7	615.4	1705.0	4617.4	4743.1	4264.1	3281.0
75°	214.2	211.9	236.5	333.9	542.9	609.9	1001.4	3570.9	3713.5	3685.7	2756.9
77.5°	140.2	144.0	163.6	235.9	456.7	605.3	652.7	2533.5	2626.0	2464.9	1630.7
80°	98.9	98.6	109.6	161.0	338.8	581.6	534.5	1596.9	1573.4	968.7	483.6
82.5°	56.7	60.7	73.4	113.3	226.6	512.0	491.7	763.7	697.2	276.1	163.3
85°	31.5	33.0	43.7	68.5	132.4	385.6	429.3	347.5	327.8	115.3	70.2
87.5°	10.1	11.0	18.2	34.7	60.1	182.1	243.1	160.4	148.0	41.6	28.3
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°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1207.2	1210.6	1201.4	1192.4	1184.3	1173.1	1162.9	1154.6	1148.8	1147.9	1145.0
5°	1211.2	1211.5	1193.9	1170.2	1147.0	1121.6	1095.3	1076.5	1058.9	1049.1	1044.1
7.5°	1214.1	1211.5	1179.7	1141.3	1096.8	1050.5	1004.2	967.2	938.6	927.4	931.7
10°	1213.0	1204.9	1158.3	1096.8	1032.0	962.9	896.4	844.4	796.7	772.1	772.7
12.5°	1206.6	1193.3	1126.5	1046.7	951.6	859.1	757.4	687.1	631.9	599.3	589.1
15°	1201.1	1178.0	1089.2	978.8	860.6	728.5	604.5	517.7	471.5	445.8	445.5
17.5°	1195.3	1163.2	1048.5	906.8	755.9	586.0	455.9	389.7	368.0	370.6	366.3
20°	1189.3	1145.9	1006.0	826.8	628.4	437.1	341.4	314.5	320.6	332.4	334.2
22.5°	1182.3	1127.4	960.3	738.6	494.3	329.0	276.9	272.9	288.5	307.0	309.6
25°	1171.6	1104.3	902.8	646.4	381.3	265.1	242.5	245.4	260.7	276.4	278.1
27.5°	1156.6	1075.6	844.7	531.3	286.5	227.5	221.7	225.5	233.0	242.5	244.8
30°	1136.4	1043.3	777.9	431.9	229.5	208.7	206.4	208.4	212.8	216.8	218.0
32.5°	1116.1	1012.1	710.5	330.7	204.7	196.3	194.0	194.0	194.0	194.5	194.8
35°	1097.3	982.6	638.3	257.6	191.7	186.5	183.3	179.8	179.2	177.2	177.2
37.5°	1086.9	955.7	561.4	215.7	182.1	178.4	174.0	168.2	165.1	165.4	164.8
40°	1088.9	938.0	491.4	191.9	174.3	170.3	163.6	157.0	154.9	154.9	154.4
42.5°	1111.8	932.3	424.4	179.5	166.8	162.2	153.8	147.7	146.6	146.3	146.9
45°	1164.4	946.4	364.2	171.4	160.4	153.5	145.1	139.6	138.5	138.5	138.2
47.5°	1267.0	992.4	321.2	166.2	155.8	146.9	138.2	132.7	130.7	130.1	130.1
50°	1426.6	1092.1	289.1	161.6	150.0	140.8	131.8	125.5	122.3	122.0	121.7
52.5°	1648.3	1247.6	276.6	158.1	143.7	134.4	124.6	118.5	114.5	113.6	113.0
55°	1907.6	1464.7	293.7	155.5	137.0	127.2	117.1	110.7	107.0	105.2	104.9
57.5°	2208.0	1725.5	358.5	152.1	131.0	119.4	109.6	103.2	99.2	97.1	96.6
60°	2477.7	1993.5	471.5	150.0	125.7	111.0	100.9	95.1	91.3	89.3	89.0
62.5°	2774.0	2249.0	606.5	155.5	123.4	102.9	92.8	87.6	84.4	82.4	82.4
65°	3090.5	2504.8	695.8	174.0	126.9	96.6	84.1	79.8	76.9	75.4	75.2
67.5°	3303.8	2593.3	573.2	193.1	135.6	89.6	75.7	72.3	70.5	69.1	69.1
69°	3280.7	2481.4	422.9	198.0	138.2	86.1	71.1	68.5	66.2	65.6	65.0
70°	3207.6	2353.9	354.4	194.8	136.2	83.0	68.2	65.0	63.0	62.4	62.2
72.5°	2856.9	2041.4	263.9	169.4	115.9	72.0	60.4	57.5	55.8	54.9	54.9
75°	2373.6	1668.5	206.1	134.7	90.8	60.7	51.7	49.4	48.0	47.4	47.1
77.5°	1330.3	931.7	148.0	105.5	68.8	49.1	43.4	41.3	39.9	39.3	39.3
80°	370.6	266.2	87.0	69.7	46.8	37.3	34.4	33.0	30.9	29.5	30.4
82.5°	139.6	115.3	49.7	41.9	29.8	24.9	24.0	22.8	22.0	19.9	19.9
85°	67.9	56.1	31.8	22.3	16.5	13.0	12.4	11.9	11.3	9.8	10.1
87.5°	23.4	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)