

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: P458549

Luminaire Tested: **GALN-SA1B-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458549
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 5354 lumens
Efficiency: N/A
Efficacy: 121.7 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

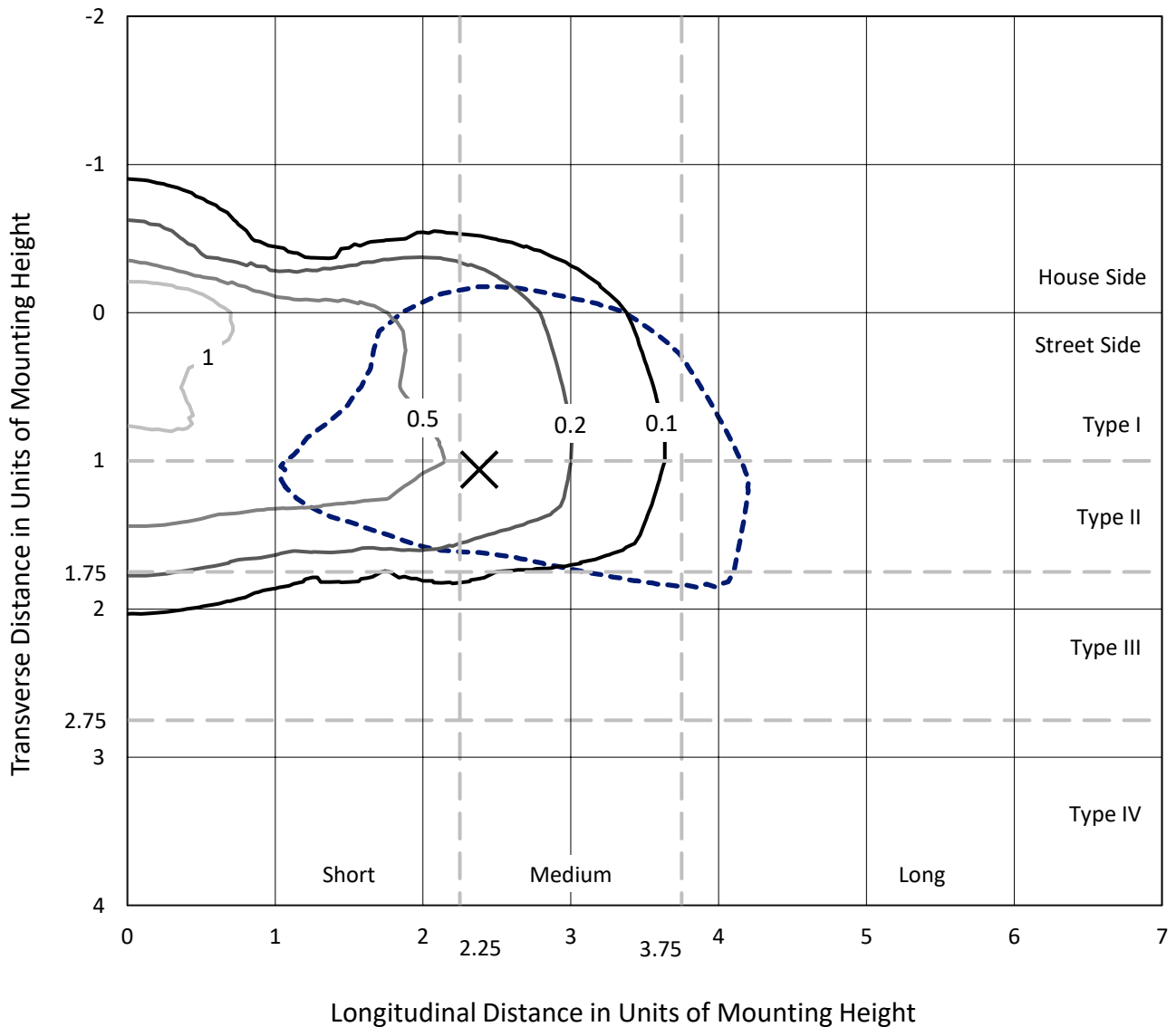
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

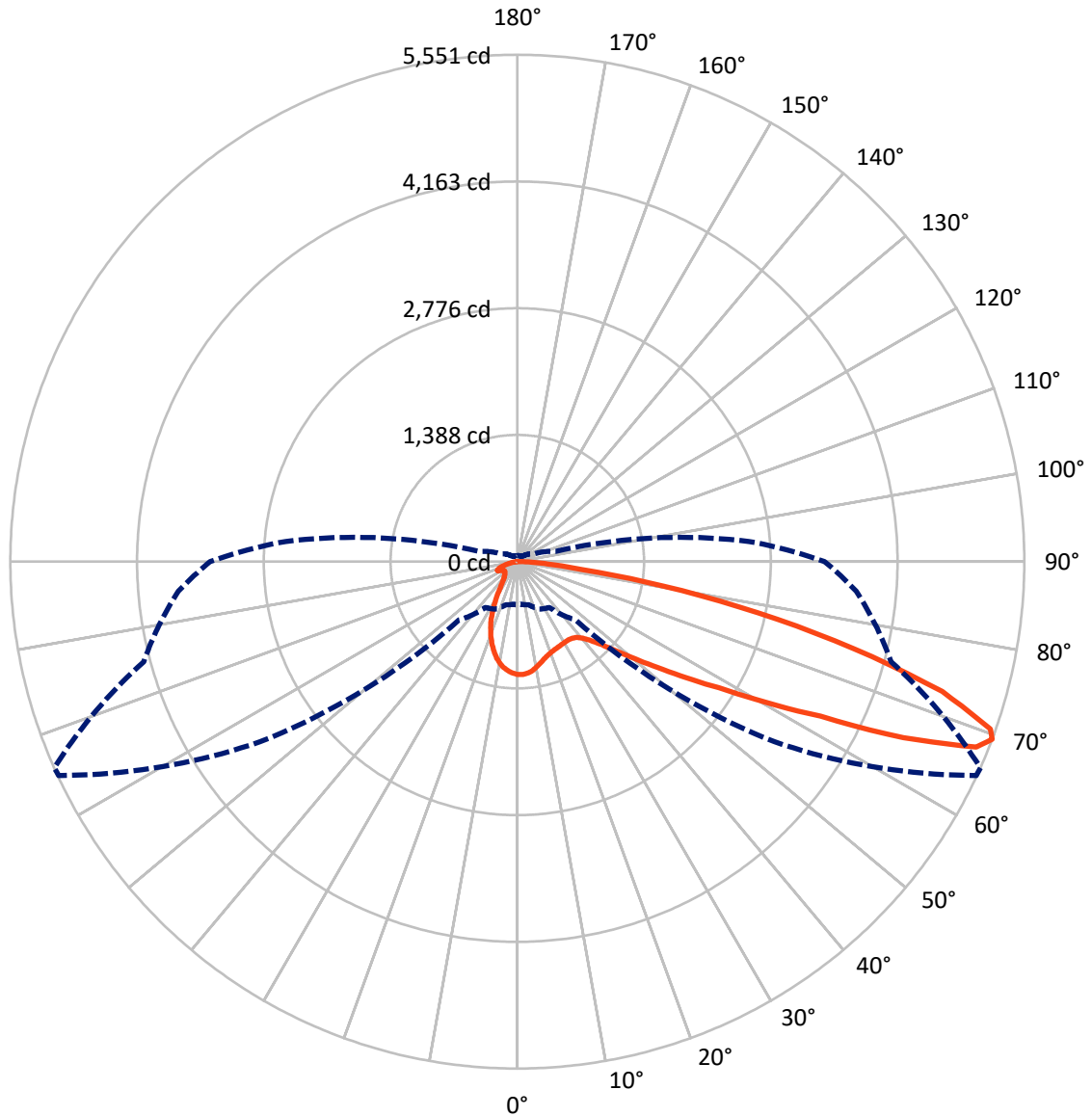
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1006.9	0.0	1006.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4347.1	0.0	4347.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	5354.0	0.0	5354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	2.0
10°-20°	254.7	4.8
20°-30°	346.7	6.5
30°-40°	465.9	8.7
40°-50°	695.6	13.0
50°-60°	1106.5	20.7
60°-70°	1361.0	25.4
70°-80°	885.5	16.5
80°-90°	130.8	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°	5354.0	100.0
0°-180°	5354.0	100.0

Coefficient of Utilization



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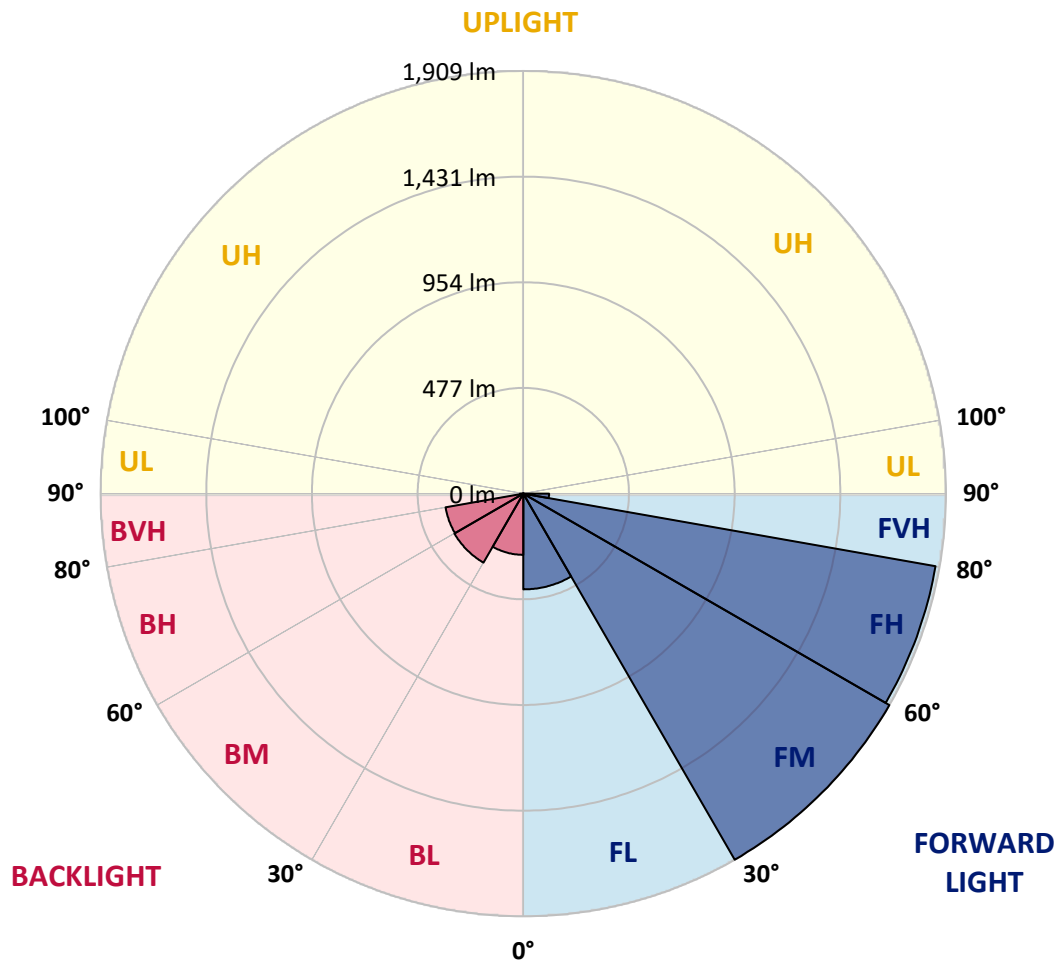
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.3	8.1			
FM (30°-60°)	1908.5	35.6			
FH (60°-80°)	1890.0	35.3			G2/5000
FVH (80°-90°)	116.3	2.2			G2/225
BL (0°-30°)	276.4	5.2	B1/500		
BM (30°-60°)	359.5	6.7	B1/1000		
BH (60°-80°)	356.5	6.7	B1/500		G1/500
BVH (80°-90°)	14.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1193.1	1197.8	1203.2	1209.1	1220.4	1226.6	1231.1	1236.1	1236.7	1239.4	1237.3
5°	1105.0	1110.7	1118.7	1129.9	1146.8	1173.2	1200.5	1222.7	1225.4	1237.9	1241.4
7.5°	1031.5	1034.8	1041.3	1059.4	1083.4	1112.7	1152.5	1197.5	1204.1	1233.7	1244.1
10°	971.6	974.9	982.6	1001.3	1025.0	1061.8	1105.3	1164.6	1170.0	1221.0	1244.7
12.5°	926.8	929.8	938.1	956.5	983.8	1018.2	1066.2	1129.1	1136.8	1204.1	1239.1
15°	892.7	898.4	905.2	920.3	949.1	982.3	1028.8	1096.4	1102.7	1186.3	1235.2
17.5°	878.2	880.9	885.6	899.6	920.6	953.2	1000.1	1070.9	1078.4	1173.8	1234.3
20°	878.8	881.5	882.4	890.1	905.2	933.4	979.6	1050.8	1059.7	1162.9	1235.8
22.5°	899.0	899.3	896.0	893.3	899.3	922.7	965.1	1035.7	1046.0	1158.1	1237.0
25°	930.1	935.4	930.7	918.2	907.3	918.5	959.5	1027.4	1037.1	1151.3	1235.5
27.5°	980.5	981.4	977.5	960.6	932.2	923.9	957.1	1021.1	1029.4	1146.3	1228.1
30°	1048.1	1045.4	1041.9	1023.2	978.4	944.3	962.1	1015.5	1024.1	1138.8	1219.2
32.5°	1116.6	1124.9	1121.6	1099.7	1041.6	984.1	978.4	1014.9	1022.0	1133.2	1209.4
35°	1189.2	1193.1	1208.5	1197.2	1137.7	1048.4	1009.0	1024.1	1029.7	1133.5	1202.6
37.5°	1246.2	1256.5	1292.7	1302.5	1246.5	1133.5	1058.5	1050.2	1052.6	1148.0	1205.3
40°	1315.0	1332.7	1379.3	1419.3	1382.6	1244.1	1142.7	1098.5	1101.5	1183.0	1222.7
42.5°	1402.1	1414.6	1477.1	1531.4	1525.5	1390.3	1244.7	1177.7	1179.2	1252.7	1271.7
45°	1504.1	1521.9	1592.2	1673.7	1687.7	1555.7	1392.0	1297.5	1296.6	1360.9	1363.0
47.5°	1634.6	1645.6	1715.2	1804.2	1860.5	1763.6	1570.8	1469.4	1459.9	1518.7	1501.8
50°	1754.7	1771.9	1824.6	1921.9	2062.1	2007.0	1806.0	1692.4	1670.2	1725.0	1696.5
52.5°	1805.1	1823.2	1867.6	1988.3	2235.0	2321.9	2104.5	1958.4	1921.3	1963.4	1953.0
55°	1717.6	1741.0	1782.5	1929.3	2310.9	2685.1	2507.2	2265.8	2238.8	2220.8	2223.7
57.5°	1482.5	1504.7	1560.8	1722.6	2220.2	2948.7	3082.1	2661.0	2603.2	2519.9	2534.1
60°	1128.5	1142.4	1171.5	1350.8	1951.2	3017.1	3735.0	3160.6	3123.9	2817.9	2828.0
62.5°	801.4	817.1	837.3	926.8	1428.5	2824.1	4246.1	3858.3	3727.0	3126.5	3116.8
65°	650.8	640.1	664.4	706.3	838.2	2188.7	4361.2	4826.7	4645.8	3533.0	3397.2
67.5°	535.2	523.9	547.9	622.3	637.5	1270.5	3946.7	5455.2	5419.1	3975.1	3682.2
69°	473.8	467.9	488.9	573.7	612.0	902.2	3438.2	5542.7	5551.3	4235.7	3726.1
70°	427.0	429.3	449.8	549.1	600.4	743.9	2938.6	5422.0	5495.0	4365.9	3678.6
72.5°	314.3	319.3	347.8	454.8	589.4	631.2	1748.7	4735.9	4864.9	4373.6	3365.2
75°	219.7	217.3	242.5	342.5	556.8	625.6	1027.1	3662.6	3808.8	3780.3	2827.7
77.5°	143.8	147.7	167.8	241.9	468.5	620.9	669.5	2598.5	2693.4	2528.2	1672.5
80°	101.4	101.1	112.4	165.1	347.5	596.5	548.2	1637.8	1613.8	993.6	496.0
82.5°	58.1	62.3	75.3	116.2	232.5	525.1	504.3	783.3	715.1	283.2	167.5
85°	32.3	33.8	44.8	70.3	135.8	395.5	440.3	356.4	336.2	118.3	72.0
87.5°	10.4	11.3	18.7	35.6	61.7	186.8	249.4	164.6	151.8	42.7	29.1
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°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1238.2	1241.7	1232.2	1223.0	1214.7	1203.2	1192.8	1184.2	1178.3	1177.4	1174.4
5°	1242.3	1242.6	1224.5	1200.2	1176.5	1150.4	1123.4	1104.2	1086.1	1076.0	1070.9
7.5°	1245.3	1242.6	1210.0	1170.6	1124.9	1077.5	1030.0	992.1	962.7	951.2	955.6
10°	1244.1	1235.8	1188.1	1124.9	1058.5	987.6	919.4	866.1	817.1	791.9	792.5
12.5°	1237.6	1223.9	1155.4	1073.6	976.1	881.2	776.8	704.8	648.1	614.6	604.3
15°	1231.9	1208.2	1117.2	1003.9	882.7	747.2	620.0	531.0	483.6	457.2	456.9
17.5°	1226.0	1193.1	1075.4	930.1	775.3	601.0	467.6	399.7	377.4	380.1	375.7
20°	1219.8	1175.3	1031.8	848.0	644.6	448.3	350.2	322.6	328.8	341.0	342.7
22.5°	1212.7	1156.3	985.0	757.5	507.0	337.4	284.0	279.9	295.9	314.9	317.5
25°	1201.7	1132.6	926.0	663.0	391.1	271.9	248.8	251.7	267.4	283.4	285.2
27.5°	1186.3	1103.3	866.4	545.0	293.8	233.3	227.4	231.3	239.0	248.8	251.1
30°	1165.5	1070.1	797.9	443.0	235.4	214.1	211.7	213.8	218.2	222.4	223.6
32.5°	1144.8	1038.0	728.8	339.2	209.9	201.3	198.9	198.9	198.9	199.5	199.8
35°	1125.5	1007.8	654.7	264.2	196.6	191.2	188.0	184.4	183.8	181.8	181.8
37.5°	1114.8	980.2	575.8	221.2	186.8	182.9	178.5	172.6	169.3	169.6	169.0
40°	1116.9	962.1	504.0	196.9	178.8	174.6	167.8	161.0	158.9	158.9	158.3
42.5°	1140.3	956.2	435.3	184.1	171.1	166.3	157.7	151.5	150.3	150.0	150.6
45°	1194.3	970.7	373.6	175.8	164.6	157.4	148.8	143.2	142.0	142.0	141.7
47.5°	1299.5	1017.9	329.4	170.5	159.8	150.6	141.7	136.1	134.0	133.4	133.4
50°	1463.2	1120.2	296.5	165.7	153.9	144.4	135.2	128.7	125.4	125.1	124.8
52.5°	1690.6	1279.7	283.7	162.2	147.4	137.9	127.8	121.6	117.4	116.5	115.9
55°	1956.6	1502.3	301.2	159.5	140.5	130.5	120.1	113.6	109.7	107.9	107.6
57.5°	2264.6	1769.8	367.7	156.0	134.3	122.5	112.4	105.8	101.7	99.6	99.0
60°	2541.3	2044.6	483.6	153.9	129.0	113.9	103.5	97.5	93.7	91.6	91.3
62.5°	2845.2	2306.7	622.0	159.5	126.6	105.6	95.2	89.8	86.6	84.5	84.5
65°	3169.8	2569.1	713.7	178.5	130.2	99.0	86.3	81.8	78.9	77.4	77.1
67.5°	3388.7	2659.9	588.0	198.1	139.1	91.9	77.7	74.1	72.3	70.9	70.9
69°	3364.9	2545.1	433.8	203.1	141.7	88.4	72.9	70.3	67.9	67.3	66.7
70°	3289.9	2414.4	363.5	199.8	139.6	85.1	70.0	66.7	64.6	64.0	63.7
72.5°	2930.3	2093.9	270.7	173.7	118.9	73.8	62.0	59.0	57.2	56.3	56.3
75°	2434.5	1711.4	211.4	138.2	93.1	62.3	53.1	50.7	49.2	48.6	48.3
77.5°	1364.5	955.6	151.8	108.2	70.6	50.4	44.5	42.4	40.9	40.3	40.3
80°	380.1	273.1	89.2	71.5	48.0	38.2	35.3	33.8	31.7	30.2	31.1
82.5°	143.2	118.3	51.0	43.0	30.5	25.5	24.6	23.4	22.5	20.5	20.5
85°	69.7	57.5	32.6	22.8	16.9	13.3	12.7	12.2	11.6	10.1	10.4
87.5°	24.0	25.5	14.2	8.3	5.0	3.3	2.7	1.5	1.5	1.5	1.5
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)