

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: P450257

Luminaire Tested: **GALN-SA1A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

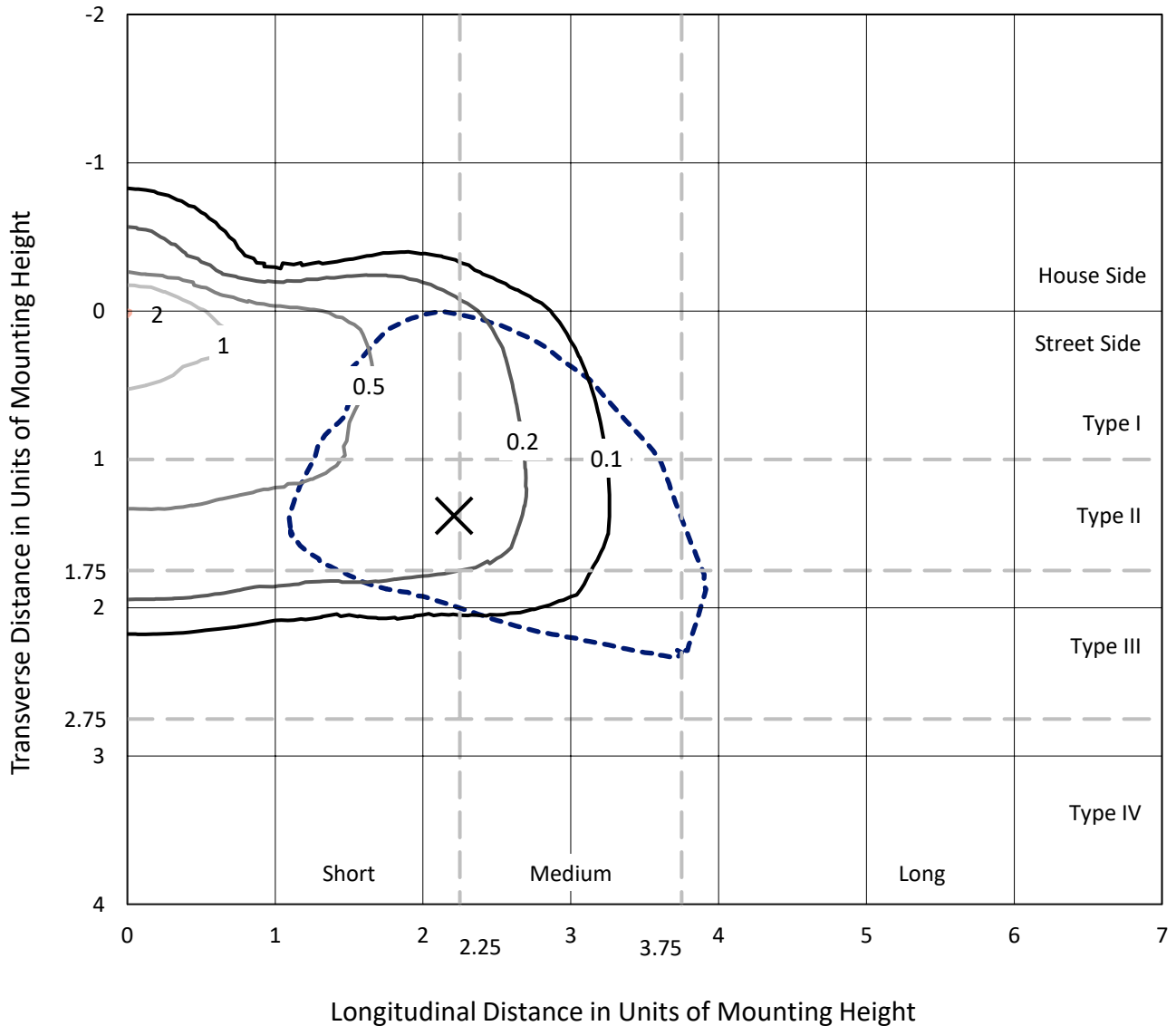
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

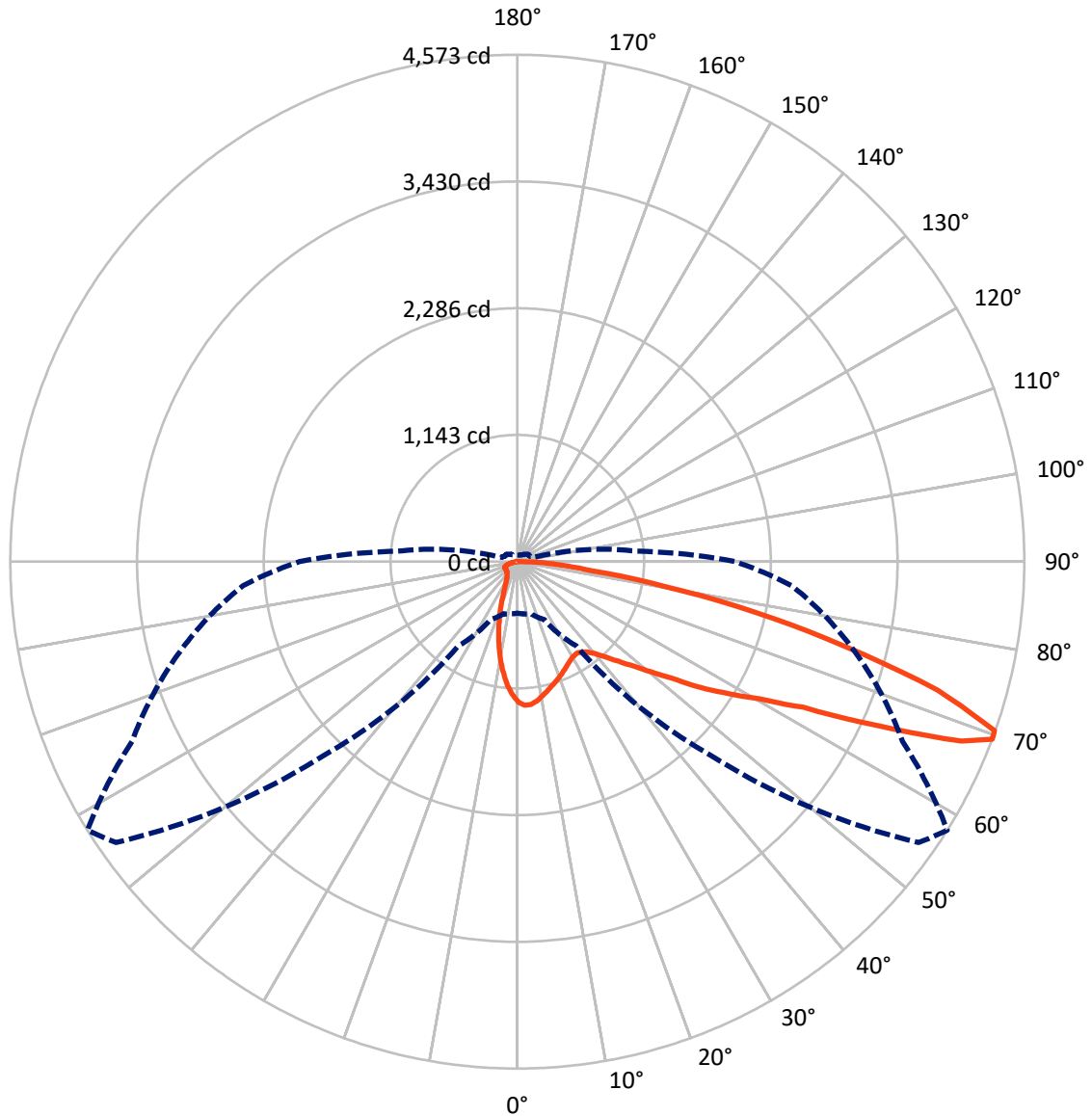
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.1	0.0	672.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3913.9	0.0	3913.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	4586.0	0.0	4586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	2.3
10°-20°	236.3	5.2
20°-30°	305.3	6.7
30°-40°	396.6	8.6
40°-50°	576.6	12.6
50°-60°	920.0	20.1
60°-70°	1229.0	26.8
70°-80°	708.5	15.4
80°-90°	106.1	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°	4586.0	100.0
0°-180°	4586.0	100.0

Coefficient of Utilization



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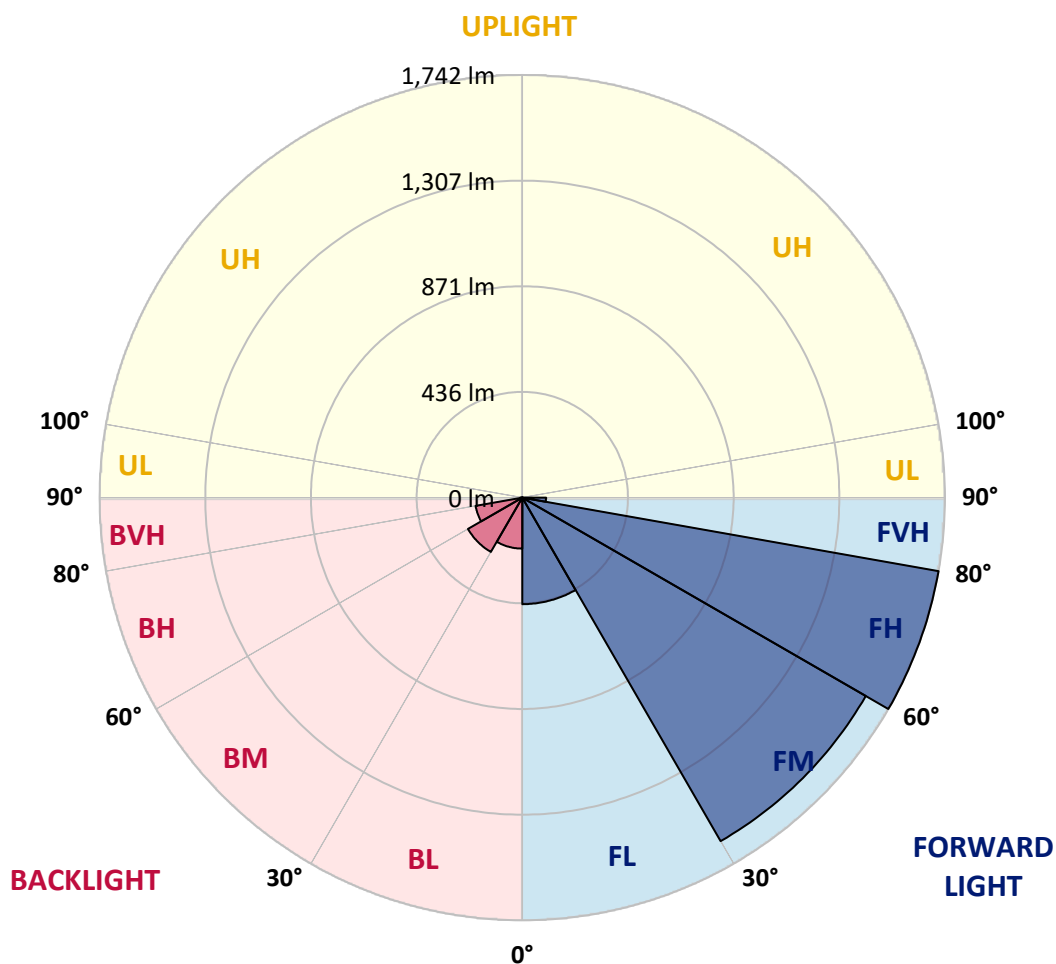
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.2	9.6			
FM (30°-60°)	1634.7	35.6			
FH (60°-80°)	1742.0	38.0			G1/1800
FVH (80°-90°)	98.0	2.1			G1/100
BL (0°-30°)	210.1	4.6	B1/500		
BM (30°-60°)	258.5	5.6	B1/1000		
BH (60°-80°)	195.4	4.3	B1/500		G1/500
BVH (80°-90°)	8.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1314.4	1317.9	1316.9	1315.6	1313.6	1308.0	1298.8	1297.2	1291.3	1278.8	1263.2
5°	1294.2	1297.2	1297.5	1299.3	1301.8	1300.8	1294.2	1293.4	1284.7	1267.8	1241.7
7.5°	1224.8	1228.9	1237.9	1247.9	1256.8	1265.3	1267.3	1268.6	1263.2	1243.8	1209.0
10°	1146.8	1150.9	1155.0	1169.9	1191.9	1212.8	1230.2	1232.5	1233.8	1215.9	1173.4
12.5°	1060.4	1068.8	1077.5	1099.5	1128.9	1161.9	1192.6	1197.5	1206.2	1192.6	1142.7
15°	987.0	995.7	1008.2	1027.9	1063.5	1111.0	1154.3	1162.2	1179.3	1172.4	1114.1
17.5°	936.1	939.2	947.9	970.4	1008.7	1058.9	1116.7	1132.5	1159.9	1158.1	1089.5
20°	895.9	899.8	905.1	919.0	958.9	1011.8	1081.6	1102.1	1139.2	1145.3	1065.2
22.5°	879.1	881.9	881.1	888.5	915.6	968.8	1046.1	1070.4	1120.8	1136.6	1042.7
25°	880.1	882.6	878.8	877.0	893.1	931.0	1009.0	1039.9	1105.9	1130.7	1022.3
27.5°	897.2	899.0	891.8	884.7	886.0	907.4	978.3	1012.6	1093.4	1133.3	1005.1
30°	920.2	923.6	919.0	910.3	900.8	901.8	958.6	992.4	1087.5	1142.2	997.0
32.5°	949.9	953.0	950.9	944.0	931.7	918.2	953.7	984.9	1088.0	1160.4	995.2
35°	981.1	987.2	990.6	990.1	980.1	956.6	972.9	998.8	1100.3	1190.8	1005.7
37.5°	1016.4	1021.5	1035.8	1045.0	1035.8	1008.5	1016.1	1034.0	1127.4	1234.8	1028.7
40°	1050.7	1058.3	1079.3	1108.0	1104.4	1080.3	1082.1	1093.9	1175.2	1300.3	1073.7
42.5°	1086.5	1095.7	1132.3	1174.7	1183.2	1164.5	1169.3	1179.8	1243.3	1391.1	1150.9
45°	1132.5	1143.5	1188.5	1241.5	1274.7	1263.2	1277.0	1282.1	1334.3	1509.3	1252.7
47.5°	1191.9	1204.6	1260.1	1326.1	1373.2	1383.7	1407.7	1404.6	1447.1	1649.2	1384.7
50°	1291.9	1299.0	1351.4	1418.7	1483.4	1530.7	1556.8	1561.7	1587.0	1785.2	1532.3
52.5°	1410.8	1417.2	1455.0	1513.9	1594.9	1695.2	1759.6	1743.8	1749.9	1951.0	1704.9
55°	1544.5	1555.3	1579.3	1618.5	1723.6	1871.2	2000.6	2004.4	1936.4	2109.5	1870.4
57.5°	1648.1	1666.3	1707.5	1763.2	1896.5	2066.8	2240.7	2243.3	2156.3	2278.8	2053.0
60°	1596.0	1617.4	1711.6	1847.4	2123.3	2408.3	2527.7	2513.1	2370.4	2471.7	2275.8
62.5°	1370.9	1374.7	1511.6	1723.8	2193.2	2865.0	2954.8	2893.2	2656.1	2716.2	2502.1
65°	887.2	912.3	1020.7	1318.2	1963.7	3118.5	3703.2	3560.7	3056.6	2993.7	2691.6
67.5°	560.1	553.7	598.7	752.7	1350.7	2895.2	4341.8	4319.3	3580.4	3168.9	2646.4
69°	464.5	471.6	487.0	577.0	929.4	2471.9	4417.3	4572.8	3834.4	3155.1	2481.9
70°	421.2	424.6	440.7	511.5	717.2	2070.4	4293.5	4565.9	3934.1	3097.3	2362.7
72.5°	334.3	334.0	361.6	425.6	536.1	1181.9	3525.4	3964.1	3822.6	2828.2	1952.2
75°	254.0	258.1	288.5	360.1	493.9	645.8	2460.2	3052.8	3053.0	2233.8	1218.2
77.5°	183.1	185.7	221.2	302.3	465.2	523.5	1638.7	2189.6	2058.4	1023.6	382.9
80°	120.0	121.5	148.6	239.4	419.5	493.9	971.6	1340.2	970.9	271.6	126.6
82.5°	65.7	73.4	90.8	155.0	336.6	456.3	590.6	678.3	364.2	121.0	66.0
85°	33.0	35.0	51.2	90.5	220.0	377.5	411.3	389.0	188.0	60.1	34.3
87.5°	9.7	12.3	21.2	35.0	89.3	196.7	228.9	205.4	72.4	21.7	7.2
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°	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1256.8	1252.2	1231.8	1213.3	1196.5	1178.6	1163.5	1150.2	1151.4	1151.7	1138.1
5°	1228.2	1217.7	1178.8	1142.5	1111.8	1072.9	1039.7	1018.2	1007.4	993.1	998.2
7.5°	1189.3	1169.1	1115.1	1054.8	998.2	947.9	893.1	855.5	831.5	808.2	811.3
10°	1149.1	1116.7	1038.1	958.3	885.2	804.6	734.8	675.0	630.5	613.8	602.8
12.5°	1108.0	1065.2	965.5	859.4	758.3	661.9	562.9	498.7	449.6	423.5	426.9
15°	1070.4	1018.4	889.8	760.4	629.2	514.3	415.6	354.5	320.2	313.1	317.1
17.5°	1035.6	967.5	819.0	664.2	511.0	385.7	312.3	277.8	263.9	260.1	259.9
20°	999.8	924.3	739.4	561.4	398.2	299.0	256.3	240.2	237.6	239.1	239.4
22.5°	963.5	870.9	657.6	459.3	317.1	244.5	224.0	219.7	221.7	225.3	225.8
25°	930.0	823.8	578.8	369.8	253.2	214.8	204.9	204.9	209.5	214.8	215.1
27.5°	902.3	778.3	500.3	293.6	212.0	193.4	190.0	191.8	198.2	202.3	202.6
30°	879.6	735.8	426.1	235.3	186.5	176.2	175.5	178.5	183.1	187.0	187.2
32.5°	862.4	698.5	356.8	197.7	168.8	163.2	162.9	165.2	167.8	168.8	169.8
35°	855.8	667.5	293.4	173.9	157.0	153.5	153.5	153.2	154.2	154.7	155.2
37.5°	861.2	643.8	244.3	158.6	148.3	145.8	144.2	142.7	142.2	142.2	142.5
40°	883.9	631.2	207.7	148.6	142.2	138.4	135.6	133.8	132.0	132.5	133.0
42.5°	932.3	633.5	182.9	141.9	136.8	131.5	127.4	125.3	124.0	125.6	125.3
45°	1009.2	656.5	167.0	137.3	131.5	124.6	120.7	118.7	118.7	121.0	121.7
47.5°	1116.9	700.5	158.6	133.8	127.4	119.2	115.3	113.8	114.3	118.2	118.4
50°	1248.4	777.0	157.0	132.0	125.3	115.3	111.0	109.5	110.7	114.8	115.3
52.5°	1393.4	875.5	164.5	132.2	123.5	113.0	107.4	105.1	106.4	109.7	110.7
55°	1565.3	998.8	183.6	133.3	121.0	111.8	104.9	99.7	101.3	103.6	103.8
57.5°	1740.7	1154.3	217.4	133.5	118.9	109.5	100.5	93.9	93.9	95.4	96.2
60°	1955.0	1323.6	261.9	133.8	119.2	106.1	94.6	87.2	86.2	87.0	87.2
62.5°	2167.8	1465.3	269.3	133.0	121.7	102.8	88.2	80.6	78.8	78.5	78.0
65°	2261.7	1438.9	220.7	129.4	124.6	100.8	83.1	74.2	71.1	70.1	70.1
67.5°	2108.8	1217.2	166.0	124.6	122.8	98.7	78.3	68.8	65.2	63.2	63.2
69°	1965.0	1082.6	149.1	121.2	118.2	95.4	75.2	66.0	61.6	59.3	58.6
70°	1854.0	990.1	141.9	118.4	113.8	91.6	72.9	63.9	59.1	56.5	56.0
72.5°	1479.6	776.7	124.3	107.7	96.9	77.0	64.7	57.5	52.9	50.1	49.4
75°	852.7	421.0	103.1	93.6	78.0	59.8	54.7	50.1	46.5	44.0	43.2
77.5°	262.4	162.7	74.7	73.9	57.3	46.3	43.7	41.9	39.4	36.6	36.1
80°	110.5	82.9	50.6	49.9	38.1	32.2	31.5	31.2	30.2	27.9	27.1
82.5°	60.6	46.8	35.3	30.7	23.0	18.7	19.4	19.7	18.9	16.6	15.1
85°	29.7	25.6	17.1	13.8	10.5	6.6	6.4	7.7	7.2	5.1	5.6
87.5°	5.9	7.2	4.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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)