

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: P450210

Luminaire Tested: **GALN-SA1A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3944 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

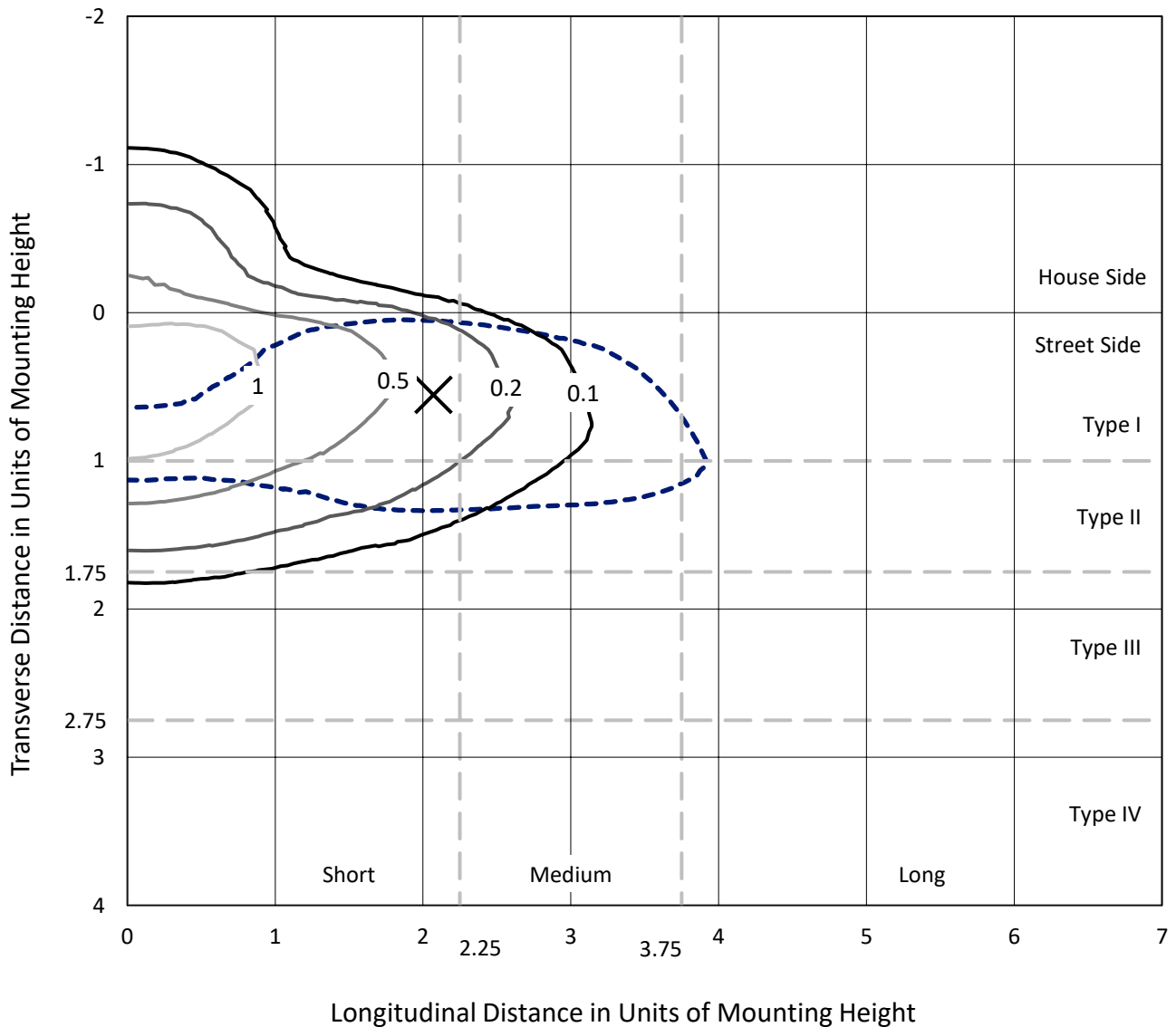
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

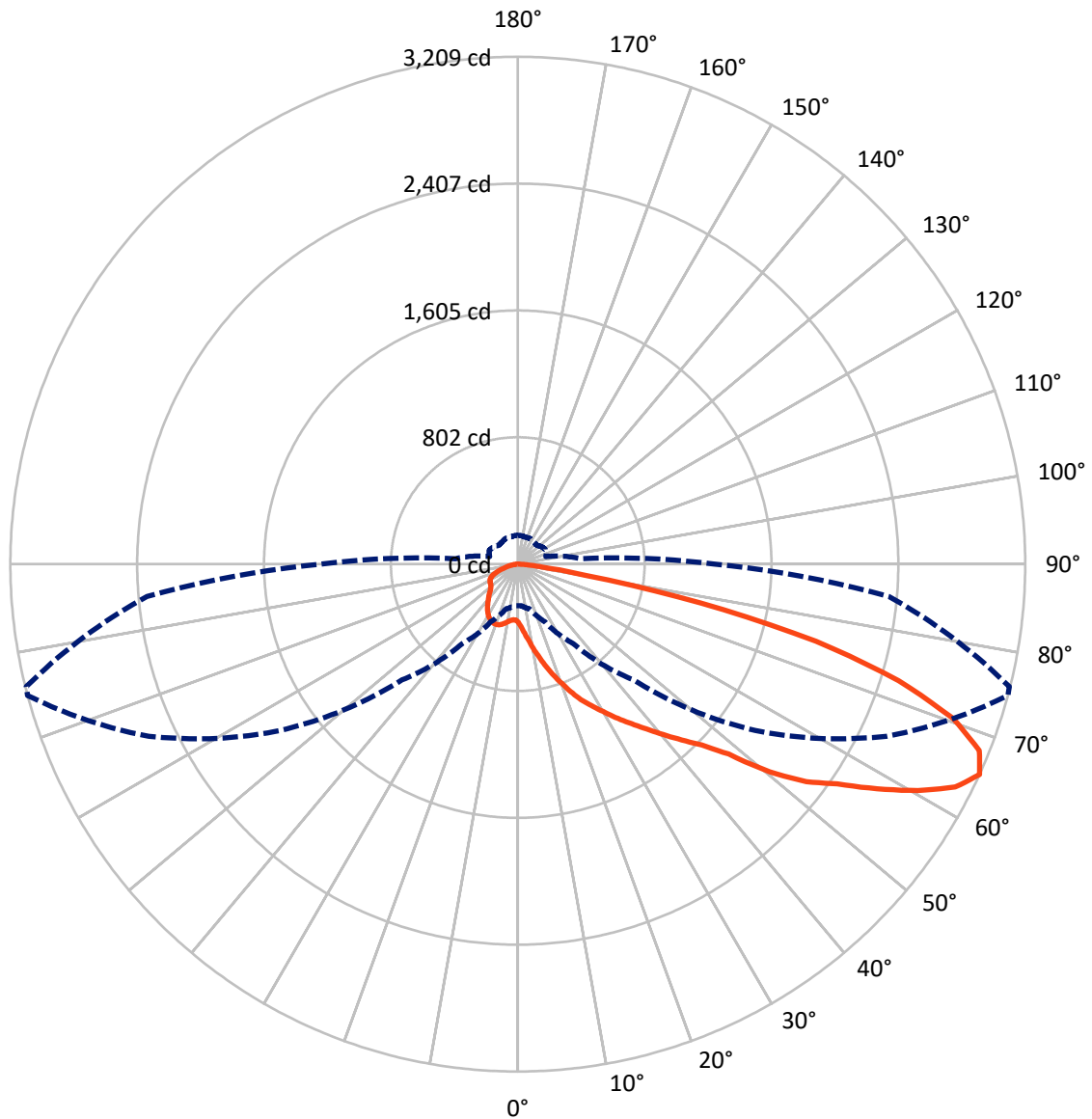
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.0	0.0	663.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3281.0	0.0	3281.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	3944.0	0.0	3944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	174.4	4.4
20°-30°	336.9	8.5
30°-40°	547.2	13.9
40°-50°	752.7	19.1
50°-60°	888.6	22.5
60°-70°	778.6	19.7
70°-80°	371.7	9.4
80°-90°	49.5	1.3
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°	3944.0	100.0
0°-180°	3944.0	100.0

Coefficient of Utilization

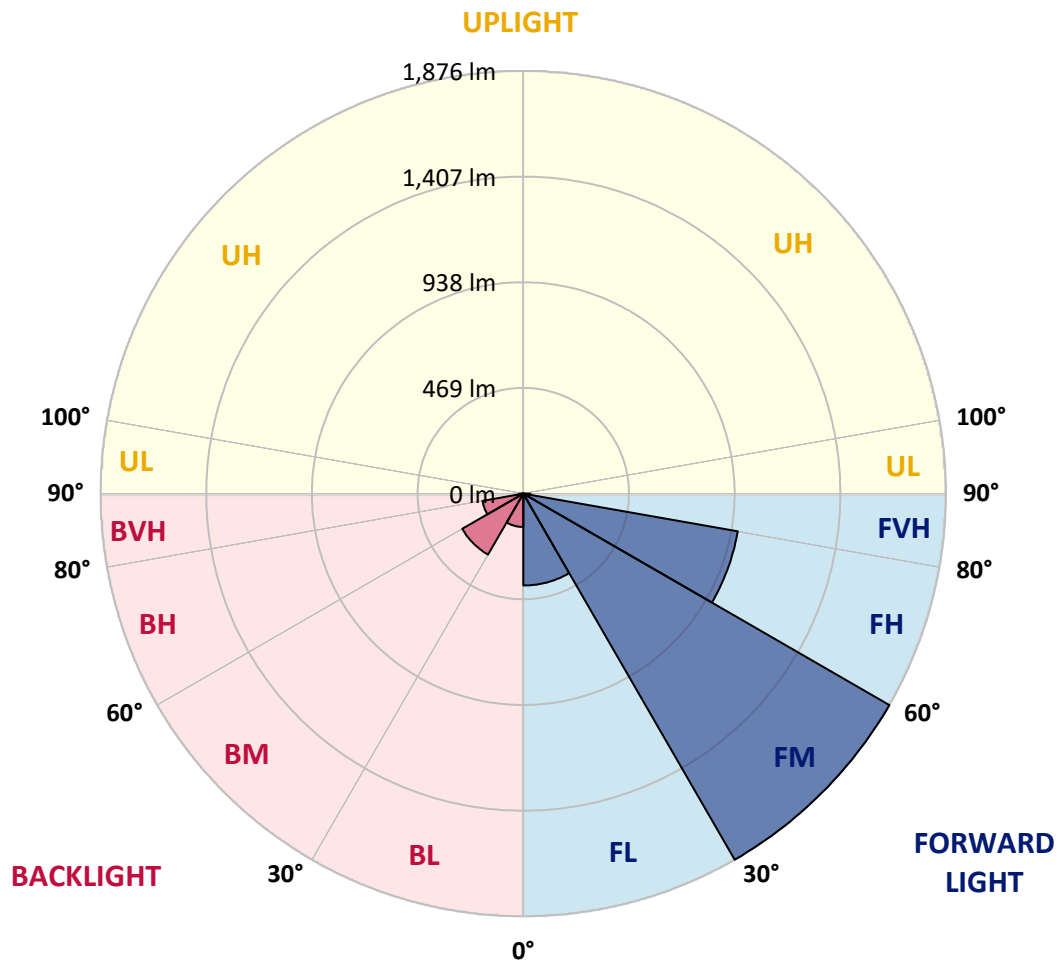


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.7	10.3			
FM (30°-60°)	1875.9	47.6			
FH (60°-80°)	966.5	24.5			G1/1800
FVH (80°-90°)	30.9	0.8			G1/100
BL (0°-30°)	148.0	3.8	B1/500		
BM (30°-60°)	312.6	7.9	B1/1000		
BH (60°-80°)	183.9	4.7	B1/500		G1/500
BVH (80°-90°)	18.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4
2.5°	486.9	483.7	480.3	470.8	460.8	449.4	433.2	417.6	396.8	396.2	380.8
5°	621.9	619.7	604.5	595.8	572.5	541.4	515.1	474.3	436.4	431.9	402.0
7.5°	745.9	737.6	731.8	716.0	692.9	653.1	602.2	547.0	483.7	477.7	428.1
10°	839.4	838.6	835.6	821.9	804.6	765.0	708.5	629.4	543.6	531.8	459.7
12.5°	909.4	910.0	909.6	909.4	897.0	863.4	802.2	718.8	604.1	595.8	496.3
15°	955.4	961.8	964.4	975.1	976.1	953.7	901.0	805.2	672.4	659.9	535.7
17.5°	985.7	989.0	1000.9	1019.1	1033.9	1029.8	983.0	885.2	742.1	721.3	576.5
20°	1014.8	1020.4	1029.6	1054.4	1080.5	1092.5	1059.6	967.1	811.2	797.9	621.7
22.5°	1075.4	1083.3	1086.5	1099.1	1121.4	1142.6	1127.6	1045.6	886.9	868.9	669.6
25°	1177.9	1186.2	1177.2	1174.2	1181.5	1192.0	1188.8	1119.7	958.4	932.7	714.9
27.5°	1311.3	1312.4	1294.9	1278.2	1260.2	1254.9	1245.0	1185.3	1020.4	999.0	760.5
30°	1454.7	1449.5	1420.4	1390.3	1359.9	1329.9	1301.7	1248.7	1089.5	1064.9	805.2
32.5°	1587.7	1584.9	1552.6	1505.8	1454.5	1426.2	1369.1	1312.6	1163.5	1139.8	851.2
35°	1687.4	1691.5	1656.0	1604.8	1548.8	1523.8	1451.7	1379.8	1240.1	1214.2	901.3
37.5°	1758.2	1756.1	1724.6	1680.4	1631.2	1609.3	1548.1	1453.2	1322.5	1297.6	956.0
40°	1783.5	1782.2	1758.9	1726.6	1695.3	1687.6	1649.1	1532.3	1416.8	1387.7	1021.9
42.5°	1767.4	1770.2	1754.8	1746.0	1740.3	1745.8	1749.4	1636.1	1519.7	1493.0	1093.4
45°	1718.2	1716.7	1714.6	1728.9	1761.4	1798.0	1848.7	1734.0	1631.6	1610.2	1189.2
47.5°	1630.3	1641.0	1646.3	1685.9	1756.9	1843.6	1962.9	1865.4	1793.9	1775.3	1335.3
50°	1507.3	1515.8	1547.5	1617.9	1723.8	1860.7	2074.6	2080.2	2064.8	2029.9	1494.0
52.5°	1315.2	1328.5	1393.7	1522.7	1655.8	1853.6	2142.2	2264.4	2284.7	2258.6	1650.4
55°	1100.2	1118.8	1187.7	1356.9	1562.1	1815.1	2188.8	2371.1	2452.2	2428.0	1801.0
57.5°	889.7	909.4	980.2	1144.1	1398.6	1730.0	2219.4	2490.0	2680.2	2648.8	1988.4
60°	666.8	687.3	748.1	916.9	1165.9	1563.6	2198.7	2593.2	2908.0	2894.6	2176.0
62.5°	430.2	452.9	505.7	645.4	896.1	1336.2	2087.7	2650.1	3105.3	3089.0	2312.9
65°	262.1	264.6	293.7	400.7	613.3	1034.5	1833.7	2574.5	3209.2	3204.3	2354.6
67.5°	169.4	173.5	186.8	240.0	367.7	718.6	1466.2	2325.3	3148.5	3146.8	2268.4
70°	143.1	144.4	150.4	161.9	213.7	435.8	1029.6	1928.1	2917.7	2917.7	2061.1
72.5°	127.9	129.6	131.8	135.4	152.5	246.9	614.4	1500.9	2519.1	2535.8	1754.4
75°	116.2	115.7	117.0	117.7	130.1	161.3	317.7	1110.0	1948.8	1915.5	1270.5
77.5°	99.5	100.1	99.5	102.3	114.9	122.8	161.3	744.9	1181.1	1137.8	637.7
80°	81.7	82.8	83.9	85.6	98.2	93.3	96.9	339.5	436.8	427.6	197.0
82.5°	61.4	62.9	64.6	68.7	77.2	61.6	61.2	145.0	157.7	144.4	72.5
85°	24.8	29.3	44.3	48.3	48.6	33.8	37.7	60.5	64.4	62.9	28.5
87.5°	5.8	6.8	14.3	21.6	19.9	12.6	13.9	19.7	22.5	20.8	9.6
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°	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4
2.5°	373.7	366.2	353.4	343.6	336.5	330.3	326.4	324.1	323.2	323.0	323.2
5°	386.3	373.1	352.8	339.9	332.9	328.8	326.4	326.2	326.4	326.7	326.0
7.5°	403.7	384.6	358.1	346.1	340.8	337.8	336.7	336.3	336.5	336.3	336.3
10°	426.8	400.7	368.6	356.2	351.7	348.3	346.6	345.5	344.6	343.8	343.3
12.5°	452.2	418.4	379.9	367.9	361.5	356.2	352.3	349.5	347.6	345.7	345.3
15°	480.7	437.3	392.5	375.9	366.7	358.7	352.1	347.6	344.2	341.4	341.2
17.5°	507.8	455.0	401.1	379.5	366.0	354.9	346.1	339.9	335.6	332.0	331.6
20°	536.9	471.9	405.0	377.1	359.6	346.1	334.6	327.1	322.2	318.1	317.5
22.5°	566.3	486.2	404.5	369.7	348.5	332.6	320.5	312.5	306.8	302.7	301.2
25°	594.3	497.8	399.2	357.7	333.1	316.6	304.2	296.9	291.8	286.9	286.9
27.5°	619.5	504.6	389.1	343.1	317.2	299.9	290.1	283.4	278.7	275.5	273.6
30°	644.3	507.8	375.4	324.7	300.6	285.8	277.9	274.0	269.8	266.1	265.7
32.5°	666.6	507.2	358.3	306.8	284.7	274.2	271.0	268.0	263.6	258.4	257.1
35°	688.2	502.9	338.0	287.1	271.5	267.4	268.3	264.0	255.9	249.4	248.4
37.5°	711.7	495.2	315.7	271.0	260.3	264.2	266.3	256.9	243.7	233.6	231.2
40°	738.9	486.5	292.6	255.0	251.6	261.2	261.2	243.9	225.7	219.5	217.8
42.5°	770.8	479.2	273.4	241.5	244.3	253.9	252.9	226.5	219.1	215.8	215.0
45°	821.2	476.6	253.5	229.8	238.3	245.4	236.6	220.6	216.3	213.7	212.9
47.5°	901.0	479.6	236.0	221.0	231.5	236.8	218.4	216.5	213.5	209.9	209.4
50°	975.1	476.8	223.5	216.1	225.5	226.5	210.9	211.6	209.9	205.8	204.9
52.5°	1035.6	468.1	215.6	213.5	220.3	208.6	203.9	206.2	205.6	200.4	199.6
55°	1102.1	462.7	211.8	213.5	216.9	193.0	197.2	200.7	199.8	196.2	196.0
57.5°	1182.8	463.8	209.0	214.1	213.5	185.0	190.6	194.7	194.5	193.4	193.4
60°	1265.3	464.2	204.7	213.9	209.4	178.8	183.8	189.5	190.0	190.6	190.6
62.5°	1292.7	445.6	196.4	210.1	200.4	172.8	177.3	185.3	184.8	186.5	186.8
65°	1241.6	394.0	184.0	201.3	188.9	168.6	172.4	179.7	177.3	181.8	182.7
67.5°	1130.1	326.0	164.7	185.5	176.1	164.1	169.2	172.0	167.7	176.5	176.7
70°	976.8	254.6	140.3	163.0	161.5	159.4	166.6	162.4	156.4	167.1	164.9
72.5°	816.8	194.5	112.1	133.3	142.0	152.3	162.2	150.0	141.6	144.8	141.0
75°	613.5	143.8	90.1	104.4	118.3	142.3	158.1	135.0	122.1	119.2	118.3
77.5°	312.8	93.9	67.4	78.1	88.8	128.6	152.5	117.4	101.2	96.5	94.3
80°	111.7	58.4	47.5	53.9	59.9	110.6	133.3	97.1	78.5	77.7	78.5
82.5°	51.8	37.7	31.9	35.3	35.5	73.8	101.6	72.5	59.7	90.7	76.6
85°	22.2	18.8	18.0	17.5	16.3	32.9	57.1	38.9	60.8	27.2	25.0
87.5°	6.6	7.5	6.6	4.9	3.6	3.6	5.8	2.1	1.5	1.1	1.1
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)