

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: P318505

Luminaire Tested: **GLEON-SA1A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587 lumens
Efficiency: N/A
Efficacy: 105.5 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

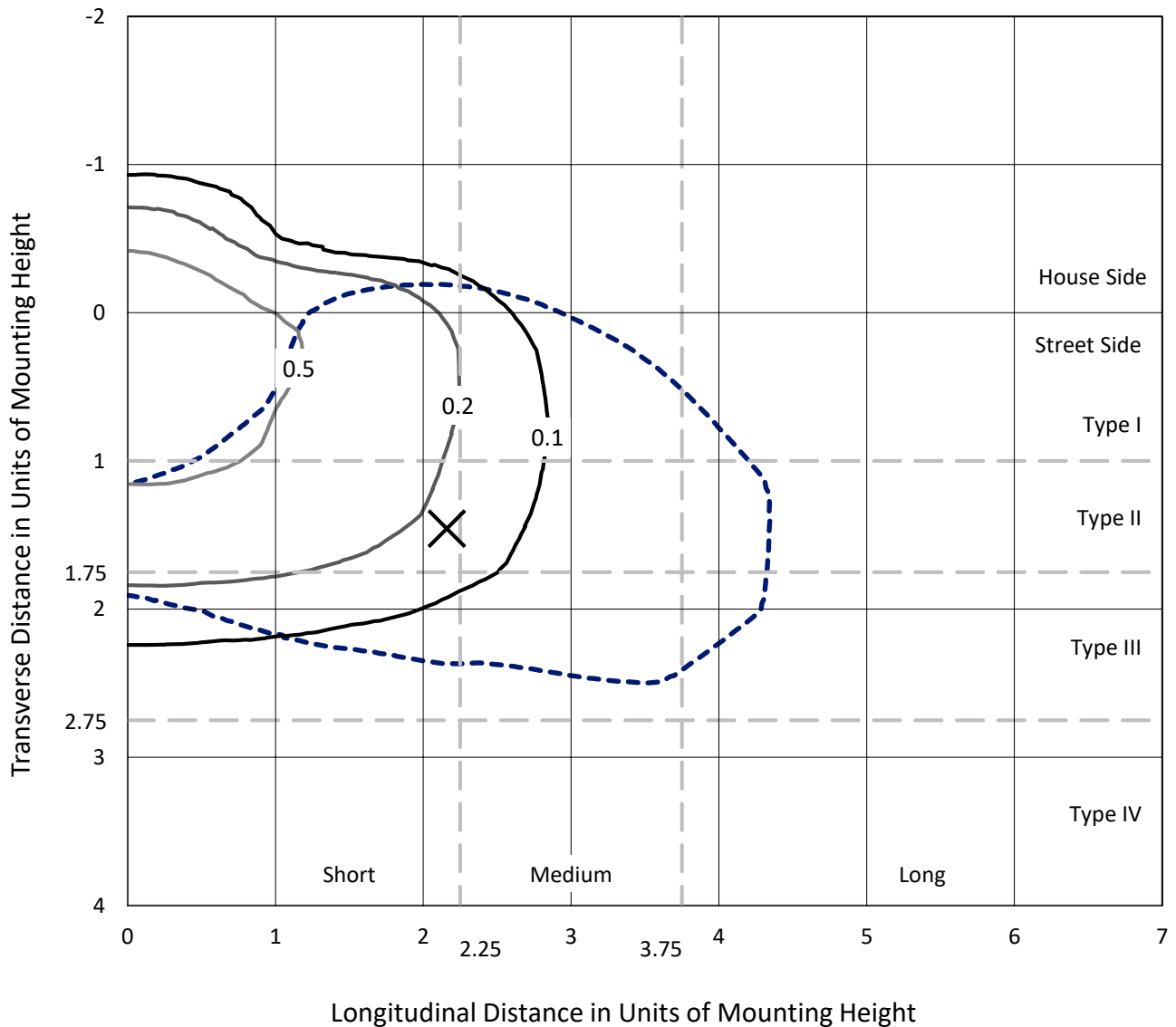
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

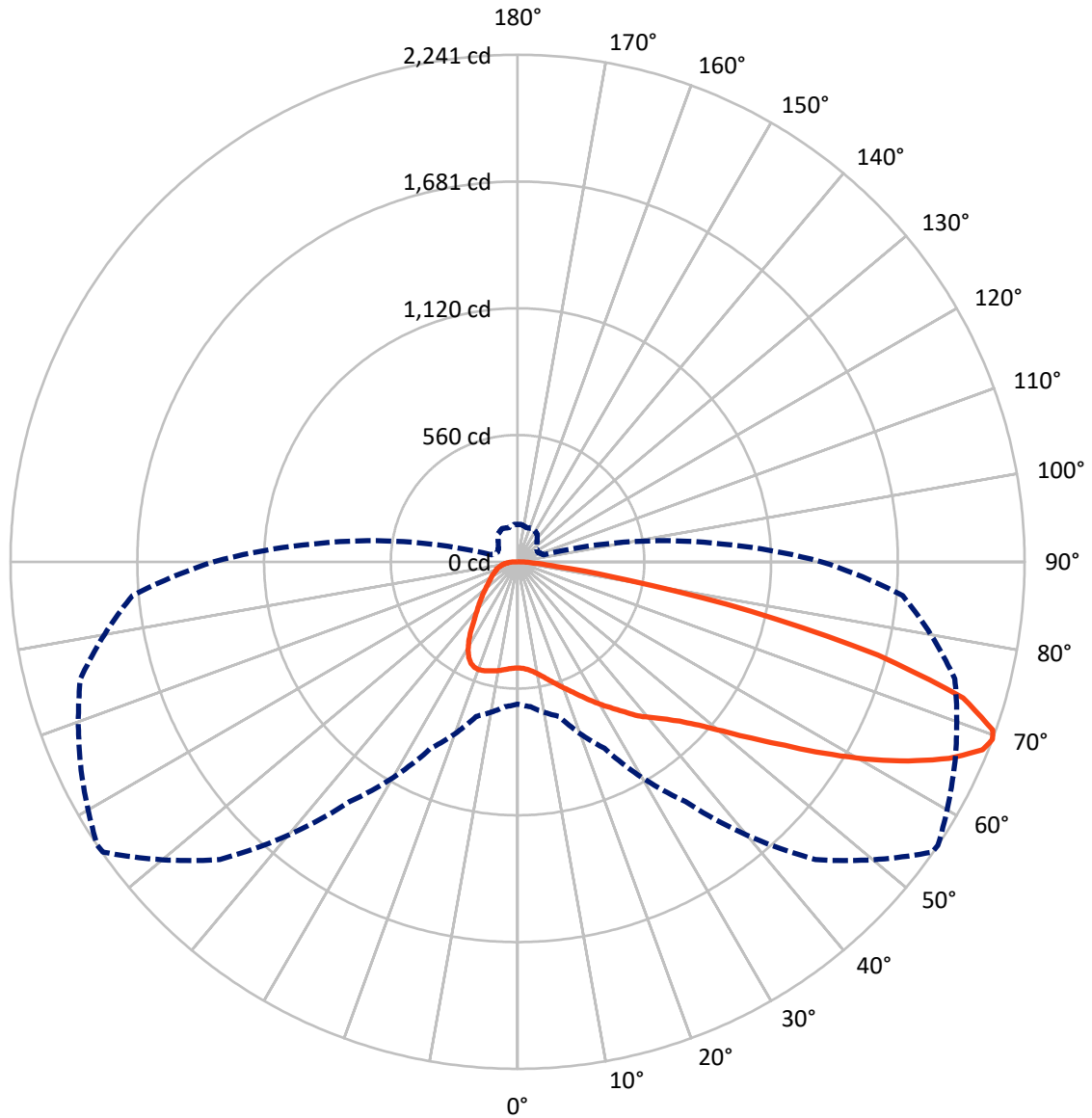
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.8	0.0	798.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2788.2	0.0	2788.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	3587.0	0.0	3587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.3
10°-20°	148.1	4.1
20°-30°	258.5	7.2
30°-40°	371.4	10.4
40°-50°	514.0	14.3
50°-60°	753.0	21.0
60°-70°	918.1	25.6
70°-80°	507.6	14.2
80°-90°	70.3	2.0
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°	3587.0	100.0
0°-180°	3587.0	100.0

Coefficient of Utilization



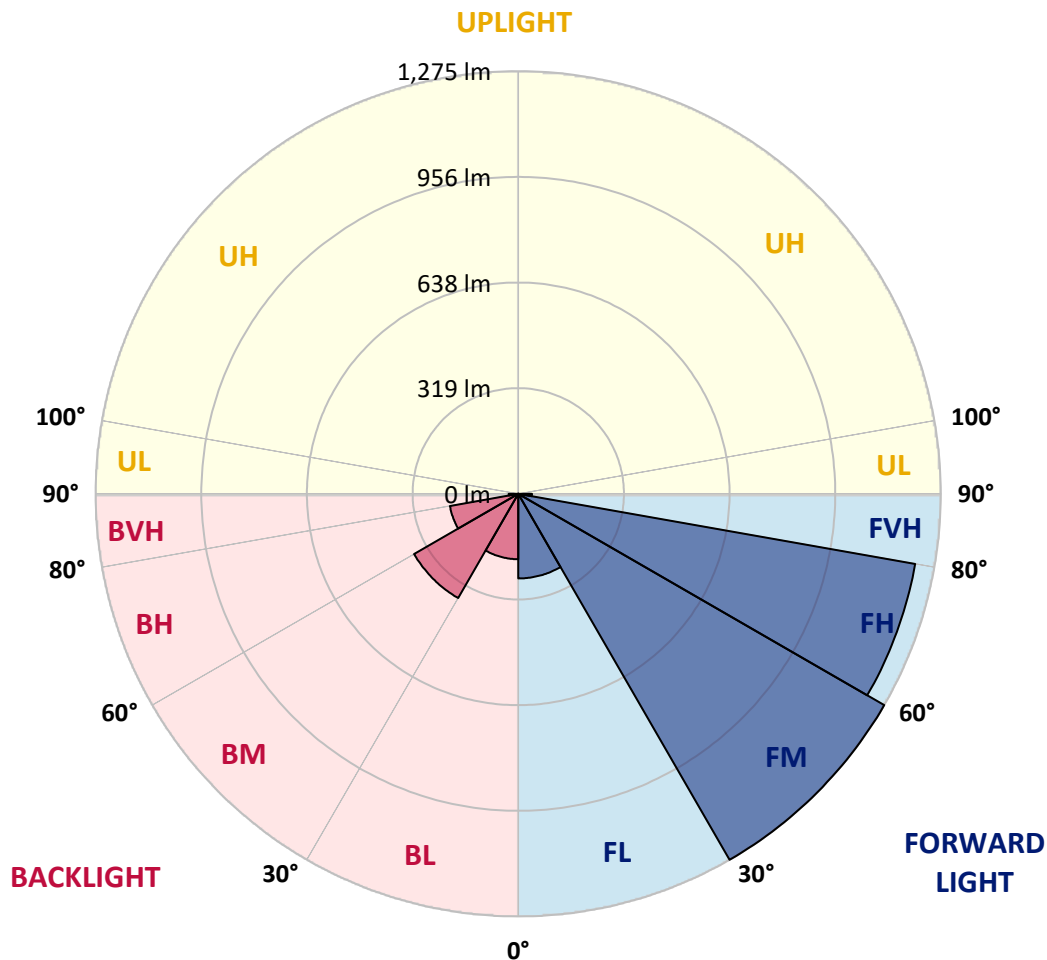
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.3	7.1			
FM (30°-60°)	1275.3	35.6			
FH (60°-80°)	1216.2	33.9			G1/1800
FVH (80°-90°)	41.4	1.2			G1/100
BL (0°-30°)	197.4	5.5	B1/500		
BM (30°-60°)	363.0	10.1	B1/1000		
BH (60°-80°)	209.5	5.8	B1/500		G1/500
BVH (80°-90°)	28.9	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	471.9	472.4	472.0	473.0	471.9	472.7	472.0	472.0	471.7	470.6	469.3
5°	479.3	480.3	479.7	480.7	479.3	479.6	478.5	478.5	477.3	475.0	472.5
7.5°	490.9	492.1	491.6	492.5	490.7	490.7	489.2	489.1	486.9	483.0	480.2
10°	504.8	506.3	505.8	507.3	505.8	506.3	504.8	504.8	501.8	496.4	492.8
12.5°	524.9	526.8	525.4	525.3	524.7	525.7	524.4	524.2	521.5	514.0	509.1
15°	551.9	553.8	551.0	550.7	547.3	546.9	546.9	546.5	544.8	535.9	527.8
17.5°	582.9	583.5	581.0	577.1	572.6	569.8	569.4	570.4	570.4	560.0	547.0
20°	613.3	614.4	612.4	608.0	602.3	598.1	595.1	597.1	597.0	584.6	566.2
22.5°	646.4	649.0	646.0	640.3	633.7	629.0	623.8	625.5	625.6	610.4	585.0
25°	689.3	686.9	685.1	677.0	667.5	662.7	657.9	659.6	659.1	638.2	604.4
27.5°	727.2	727.7	725.2	716.7	705.7	695.1	694.8	695.9	694.1	667.2	622.7
30°	771.3	771.6	768.1	760.4	748.5	734.7	731.5	733.4	729.4	694.6	641.9
32.5°	815.2	816.4	812.6	803.3	793.7	777.0	770.6	771.8	761.9	722.6	661.8
35°	853.6	855.3	854.1	847.9	837.4	823.1	815.4	814.7	802.5	757.0	688.2
37.5°	892.8	894.4	893.0	887.8	883.6	868.4	864.4	864.4	843.1	792.1	721.6
40°	933.1	935.5	933.9	926.8	923.2	916.3	906.5	904.2	881.2	834.2	776.3
42.5°	970.5	973.7	980.2	976.0	968.7	969.6	950.0	948.8	932.0	896.5	844.8
45°	1023.6	1028.3	1039.2	1036.0	1034.5	1029.1	1005.7	1004.6	998.2	980.3	930.0
47.5°	1081.6	1088.0	1107.7	1108.3	1124.2	1114.0	1082.2	1078.4	1079.9	1080.6	1033.9
50°	1135.0	1142.0	1174.3	1189.5	1227.0	1229.3	1178.5	1175.0	1180.8	1197.9	1155.0
52.5°	1177.6	1186.5	1226.8	1273.8	1338.1	1356.4	1297.0	1294.4	1298.7	1328.1	1291.9
55°	1208.9	1218.5	1262.4	1347.9	1450.7	1483.0	1433.4	1430.9	1433.7	1471.1	1440.8
57.5°	1216.2	1218.5	1282.2	1397.8	1545.7	1623.2	1600.3	1595.4	1582.1	1614.7	1605.2
60°	1181.9	1191.3	1265.8	1415.4	1619.3	1761.5	1774.8	1768.7	1731.2	1757.9	1750.2
62.5°	1112.5	1129.3	1204.9	1388.7	1648.0	1874.4	1946.0	1938.6	1874.1	1891.4	1854.5
65°	999.1	1006.2	1085.7	1296.6	1611.5	1946.7	2098.6	2094.9	2013.7	1986.6	1873.8
67.5°	796.2	809.6	877.1	1104.2	1461.8	1938.2	2216.6	2216.2	2104.9	2022.0	1805.5
69°	629.0	642.9	707.2	909.6	1293.5	1860.2	2236.4	2240.7	2130.6	2000.5	1707.9
70°	501.4	517.6	561.7	766.1	1144.1	1757.4	2219.9	2227.7	2125.6	1965.0	1617.8
72.5°	213.4	226.5	257.9	394.9	697.3	1312.3	2029.8	2059.2	2011.1	1798.4	1337.0
75°	93.2	97.2	111.5	161.0	309.5	714.2	1590.1	1644.5	1719.6	1520.2	996.0
77.5°	68.2	69.9	77.7	94.5	138.9	269.8	1022.5	1054.2	1240.1	1106.2	610.9
80°	52.8	54.0	60.1	69.4	90.7	109.1	466.4	493.5	697.3	568.2	254.4
82.5°	42.0	42.9	47.1	51.2	62.6	66.1	154.8	171.8	257.4	156.9	67.3
85°	39.0	40.0	41.5	37.3	40.2	38.8	67.0	70.1	77.7	61.7	28.2
87.5°	17.7	20.9	41.1	29.0	21.4	17.1	27.4	28.7	32.3	32.4	12.5
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°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	470.1	469.7	470.3	468.8	470.7	470.6	469.9	470.2	471.4	471.3	471.4
5°	472.9	472.7	473.4	472.3	474.5	475.2	475.4	476.5	477.8	478.2	478.2
7.5°	480.1	480.1	480.4	479.0	480.4	480.3	479.7	480.8	482.2	482.3	482.2
10°	492.4	492.5	491.9	488.1	486.9	483.5	480.4	480.6	482.3	483.7	484.0
12.5°	508.0	507.5	504.8	497.7	492.5	485.8	482.5	482.4	484.1	485.3	485.6
15°	525.8	524.4	517.4	505.9	496.7	490.1	484.9	483.7	482.7	481.4	481.6
17.5°	542.6	539.5	527.8	511.8	502.2	493.3	483.3	475.2	469.7	466.5	465.5
20°	559.6	553.6	536.7	517.4	505.2	489.0	469.7	453.4	443.2	438.5	437.7
22.5°	575.2	565.5	544.9	523.2	502.8	474.4	444.1	420.4	406.3	400.0	400.5
25°	590.4	576.8	553.6	527.3	490.9	448.7	408.5	379.4	363.0	356.0	355.8
27.5°	603.8	588.3	563.0	523.9	468.8	412.1	366.4	338.0	324.4	318.3	317.3
30°	619.1	602.8	575.5	511.2	436.4	369.8	325.2	305.2	295.6	289.5	288.4
32.5°	637.7	622.4	585.7	488.1	395.1	325.7	293.1	279.1	270.4	263.6	262.3
35°	664.9	648.4	588.3	455.0	349.6	290.9	269.5	255.2	243.3	234.5	233.7
37.5°	699.0	680.9	582.4	412.1	305.5	268.3	249.9	232.2	216.7	204.4	202.4
40°	748.2	720.8	565.9	362.7	273.0	250.8	230.7	210.6	191.4	177.0	174.1
42.5°	807.3	767.6	540.7	313.5	249.1	233.2	211.7	186.7	168.4	158.2	156.7
45°	882.4	816.3	505.8	270.5	225.6	215.5	191.2	168.2	156.8	149.3	148.0
47.5°	968.2	870.9	469.1	235.5	205.7	198.9	174.7	159.9	150.9	144.9	143.8
50°	1073.6	932.6	430.1	206.9	185.7	179.1	166.9	155.3	148.2	143.6	142.5
52.5°	1192.4	1002.1	402.1	184.2	169.2	164.3	162.9	152.9	147.0	143.6	142.5
55°	1320.5	1073.0	371.8	165.2	154.8	156.2	160.1	153.1	149.1	144.9	143.3
57.5°	1448.6	1146.1	338.1	149.1	143.5	150.1	158.3	153.6	150.3	146.2	144.7
60°	1549.9	1192.4	285.8	135.7	134.4	143.5	153.8	149.9	145.6	145.7	145.4
62.5°	1597.3	1190.0	228.1	123.7	125.4	134.4	146.7	144.1	140.5	145.3	145.7
65°	1570.7	1130.7	177.6	112.8	115.8	125.1	139.3	141.2	142.5	151.7	153.0
67.5°	1459.2	1015.2	137.5	103.3	107.0	118.6	140.0	153.8	155.5	165.2	165.1
69°	1343.9	907.0	119.5	98.4	102.7	120.2	149.6	161.9	155.8	166.2	164.7
70°	1247.3	821.4	109.9	95.0	100.7	123.1	156.1	161.8	154.0	162.9	160.4
72.5°	960.6	590.9	93.2	88.8	94.0	117.8	157.9	158.2	149.6	151.4	147.2
75°	658.9	373.4	81.3	80.4	83.9	106.1	152.0	151.1	138.4	135.9	132.5
77.5°	363.3	189.7	69.1	72.4	74.8	94.0	138.2	136.9	126.4	121.2	120.0
80°	140.1	83.0	58.3	64.4	65.9	81.4	121.1	120.0	111.2	104.5	102.7
82.5°	52.9	43.5	48.2	55.7	55.2	67.2	102.6	101.9	93.4	83.7	80.7
85°	24.5	26.1	38.2	46.0	42.4	49.8	82.1	83.2	72.8	61.2	61.2
87.5°	10.4	14.6	27.1	34.7	28.5	33.6	60.2	57.5	52.8	36.6	34.4
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)