

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: P191429

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4201.3 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

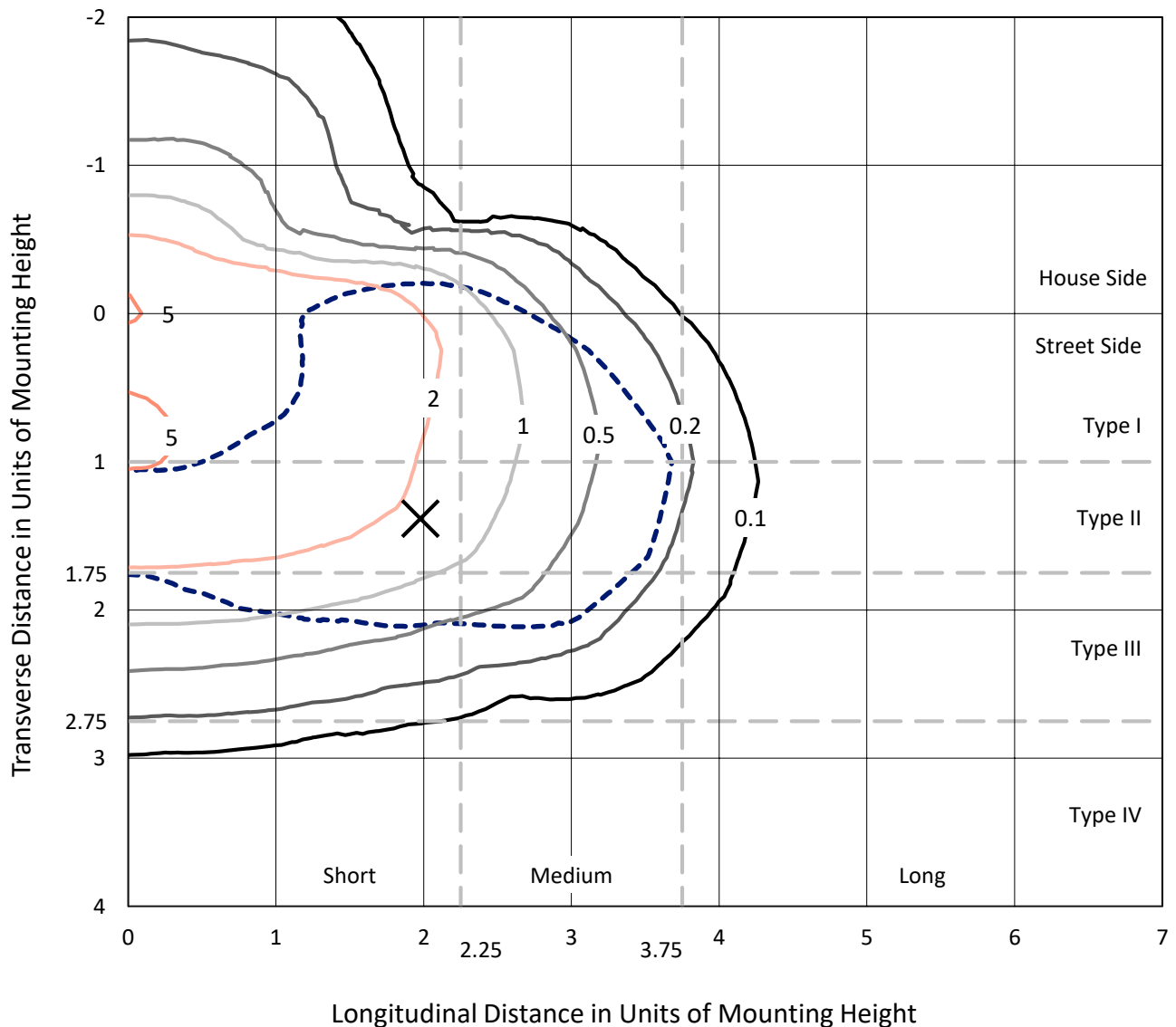
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

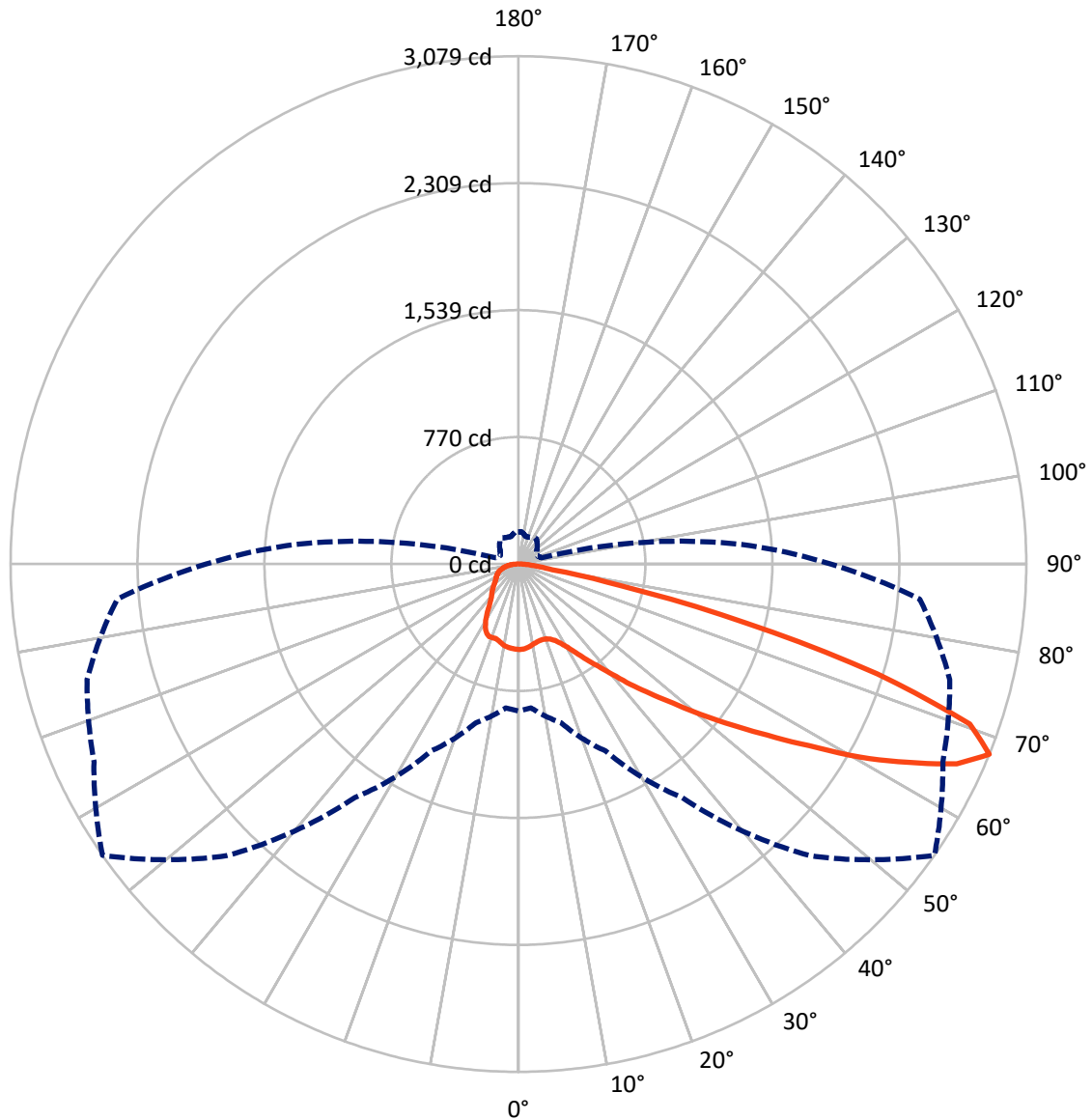
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	907.6	0.0	907.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	3293.7	0.0	3293.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	4201.3	0.0	4201.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	1.2
10°-20°	136.9	3.3
20°-30°	229.4	5.5
30°-40°	377.2	9.0
40°-50°	635.0	15.1
50°-60°	999.5	23.8
60°-70°	1192.8	28.4
70°-80°	512.2	12.2
80°-90°	69.8	1.7
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°	4201.3	100.0
0°-180°	4201.3	100.0



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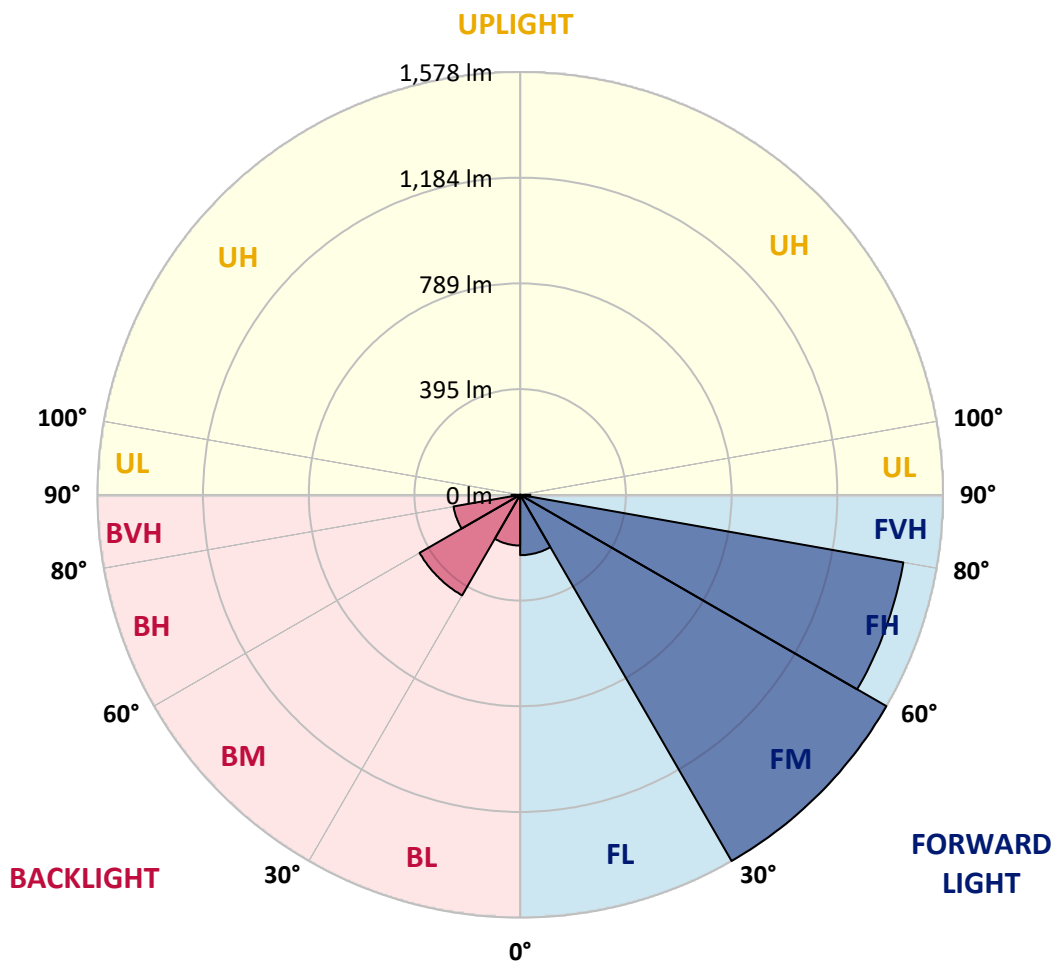
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.2	5.4			
FM	(30°-60°)	1578.3	37.6			
FH	(60°-80°)	1452.4	34.6			G1/1800
FVH	(80°-90°)	37.8	0.9			G1/100
BL	(0°-30°)	189.5	4.5	B1/500		
BM	(30°-60°)	433.4	10.3	B1/1000		
BH	(60°-80°)	252.6	6.0	B1/500		G1/500
BVH	(80°-90°)	32.0	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°	65°	75°	85°	90°
0°	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
2.5°	513.6	513.8	514.2	515.9	517.2	516.8	517.0	516.3	516.1	514.9	516.1
5°	507.1	507.7	507.9	510.6	512.2	512.6	512.0	511.0	509.7	508.5	509.1
7.5°	492.2	493.9	494.1	497.8	500.4	503.9	504.1	504.2	503.7	502.9	504.1
10°	482.9	483.3	483.1	485.8	487.8	491.6	493.9	497.8	499.4	499.8	500.6
12.5°	482.3	481.9	481.3	481.3	480.7	482.3	486.4	491.8	495.7	496.9	498.0
15°	488.9	488.7	486.6	483.5	479.7	478.5	481.9	488.0	493.1	495.7	496.7
17.5°	503.5	502.3	499.0	492.0	483.8	480.5	480.9	486.0	491.8	495.3	496.3
20°	530.2	530.2	523.3	510.4	495.5	487.8	484.2	487.2	492.9	497.6	499.0
22.5°	576.5	576.9	565.4	544.0	519.0	502.7	493.5	492.9	499.6	504.8	506.5
25°	642.0	640.5	624.2	593.7	555.8	528.7	512.8	509.1	514.9	520.7	522.7
27.5°	718.3	712.5	693.2	656.4	607.3	567.5	543.2	537.4	542.8	549.5	551.6
30°	793.8	787.8	764.9	724.7	670.0	619.7	584.8	575.3	583.0	592.5	593.7
32.5°	869.3	869.3	843.7	796.9	737.4	682.0	640.3	628.8	641.6	653.3	655.8
35°	959.6	960.0	935.3	878.8	815.0	756.3	710.2	701.9	721.2	729.3	735.6
37.5°	1070.6	1072.9	1041.0	972.8	902.8	841.1	786.3	775.0	794.2	816.3	836.7
40°	1190.5	1193.4	1158.3	1074.3	1004.2	939.8	880.5	860.0	892.0	934.3	960.4
42.5°	1305.0	1319.6	1285.7	1199.3	1124.0	1057.2	997.2	967.3	1007.5	1071.2	1093.9
45°	1470.4	1480.9	1421.9	1343.5	1272.8	1198.1	1118.5	1087.1	1143.2	1223.7	1228.3
47.5°	1580.6	1572.7	1542.6	1493.9	1449.1	1379.2	1259.6	1225.1	1299.8	1394.3	1368.1
50°	1639.2	1641.6	1637.5	1640.4	1642.0	1598.3	1432.4	1385.2	1474.3	1588.4	1528.2
52.5°	1694.0	1677.7	1691.1	1757.7	1838.0	1821.9	1620.6	1571.3	1661.4	1804.0	1697.5
55°	1692.8	1668.0	1711.6	1829.1	2003.4	2022.2	1831.8	1774.9	1859.2	2035.2	1876.8
57.5°	1632.9	1634.2	1701.3	1855.1	2118.7	2210.4	2076.9	1991.7	2069.0	2269.3	2040.6
60°	1550.5	1561.7	1658.5	1850.8	2211.0	2364.9	2377.6	2225.2	2274.5	2482.2	2176.1
62.5°	1417.6	1429.4	1562.9	1806.6	2197.0	2513.6	2649.5	2490.3	2489.5	2611.2	2215.9
65°	1208.0	1204.5	1344.8	1641.2	2079.6	2623.6	2919.6	2719.4	2651.4	2613.2	2135.9
67.5°	890.8	875.4	995.7	1250.0	1728.5	2500.4	3078.6	2838.7	2706.6	2441.4	1891.6
70°	462.3	446.8	544.2	729.9	1136.8	1951.5	2902.6	2777.0	2584.6	2046.5	1481.9
72.5°	197.6	195.0	234.6	320.2	549.9	1125.7	2276.0	2403.6	2217.8	1524.8	1018.9
75°	132.9	132.1	146.9	174.5	247.3	456.7	1424.4	1706.2	1622.6	945.4	573.1
77.5°	104.3	103.3	112.0	125.4	160.3	180.2	632.1	916.0	847.8	411.5	250.8
80°	81.5	80.8	86.2	93.5	115.3	113.6	208.0	364.5	282.0	157.6	121.9
82.5°	64.3	64.3	68.7	68.9	81.7	77.5	108.5	160.5	140.9	92.0	74.7
85°	58.8	58.8	63.5	51.6	53.4	48.9	67.4	95.1	89.3	37.7	32.4
87.5°	29.7	28.8	53.4	45.6	29.1	26.0	32.8	46.0	49.5	20.9	16.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
2.5°	515.7	515.5	515.9	516.1	517.6	519.9	520.9	522.3	523.1	522.7
5°	509.5	509.9	511.6	512.8	515.7	519.2	521.3	522.9	524.4	523.8
7.5°	504.4	505.4	507.9	508.9	510.6	511.6	511.4	512.0	513.2	511.8
10°	501.7	502.9	504.6	503.3	499.4	493.9	488.9	486.2	487.0	486.0
12.5°	498.8	500.4	499.0	492.2	481.5	474.4	470.6	471.0	472.8	473.2
15°	497.2	497.8	491.6	479.2	468.1	467.1	469.1	468.7	468.9	468.9
17.5°	497.2	495.5	484.2	471.6	466.9	465.1	458.8	450.9	447.4	446.2
20°	499.8	495.5	481.7	473.4	463.3	447.6	431.0	416.4	409.9	408.1
22.5°	507.7	500.4	488.7	474.2	445.4	419.2	392.8	375.4	363.7	361.6
25°	523.8	515.7	502.3	463.5	417.0	379.6	349.6	330.1	318.3	316.8
27.5°	551.8	546.5	509.5	439.8	379.3	339.3	311.5	296.5	287.8	287.1
30°	593.9	591.3	505.8	404.6	332.8	300.1	286.7	278.0	271.5	271.3
32.5°	661.3	640.1	493.9	361.8	290.4	272.3	266.9	261.6	256.5	256.5
35°	748.0	679.3	471.2	316.0	264.6	256.9	250.0	241.7	235.0	234.6
37.5°	849.9	703.7	430.4	279.1	252.5	246.5	236.4	224.0	212.3	210.2
40°	952.7	711.1	373.0	256.2	244.7	236.2	223.8	209.2	197.8	197.2
42.5°	1047.1	697.0	312.1	240.7	237.0	225.7	212.7	199.7	190.8	190.6
45°	1126.3	660.7	261.0	225.9	228.9	216.1	204.6	194.0	187.1	185.7
47.5°	1200.7	609.4	225.0	210.2	220.8	210.8	201.1	191.2	184.4	183.4
50°	1287.2	553.9	199.9	195.0	213.7	209.0	204.0	193.5	182.4	181.2
52.5°	1391.8	506.1	180.2	181.6	208.2	211.4	211.2	200.5	181.0	179.4
55°	1508.8	453.0	165.4	170.6	205.9	215.9	213.1	206.9	182.2	179.8
57.5°	1623.8	390.9	155.1	162.3	202.7	215.5	204.4	195.6	185.1	181.6
60°	1710.1	307.4	147.1	155.1	195.6	208.8	194.8	183.2	184.4	181.8
62.5°	1715.7	237.6	137.6	148.7	184.8	202.1	188.5	177.8	187.1	184.6
65°	1614.8	179.6	128.5	141.3	173.3	197.8	182.4	174.7	192.6	190.0
67.5°	1359.6	144.4	120.7	133.5	161.7	188.9	177.0	171.9	197.4	192.8
70°	981.5	123.2	113.2	124.2	151.4	178.8	172.1	166.8	184.2	177.0
72.5°	604.3	106.7	104.8	111.8	143.4	168.2	164.8	157.2	166.0	160.1
75°	301.8	92.6	95.1	99.6	132.3	156.2	152.6	145.1	146.3	145.1
77.5°	144.4	79.2	84.0	87.5	117.9	142.7	138.8	131.0	129.7	129.9
80°	91.6	66.2	70.8	73.2	105.4	126.8	123.0	115.3	131.4	121.9
82.5°	57.2	53.8	55.0	59.4	91.8	110.4	105.4	98.4	118.5	93.7
85°	31.6	37.5	39.2	43.1	70.6	92.4	87.3	78.6	70.4	69.2
87.5°	18.8	22.3	22.9	25.8	47.5	66.8	59.0	56.1	46.4	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)