

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: P194049

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3371 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

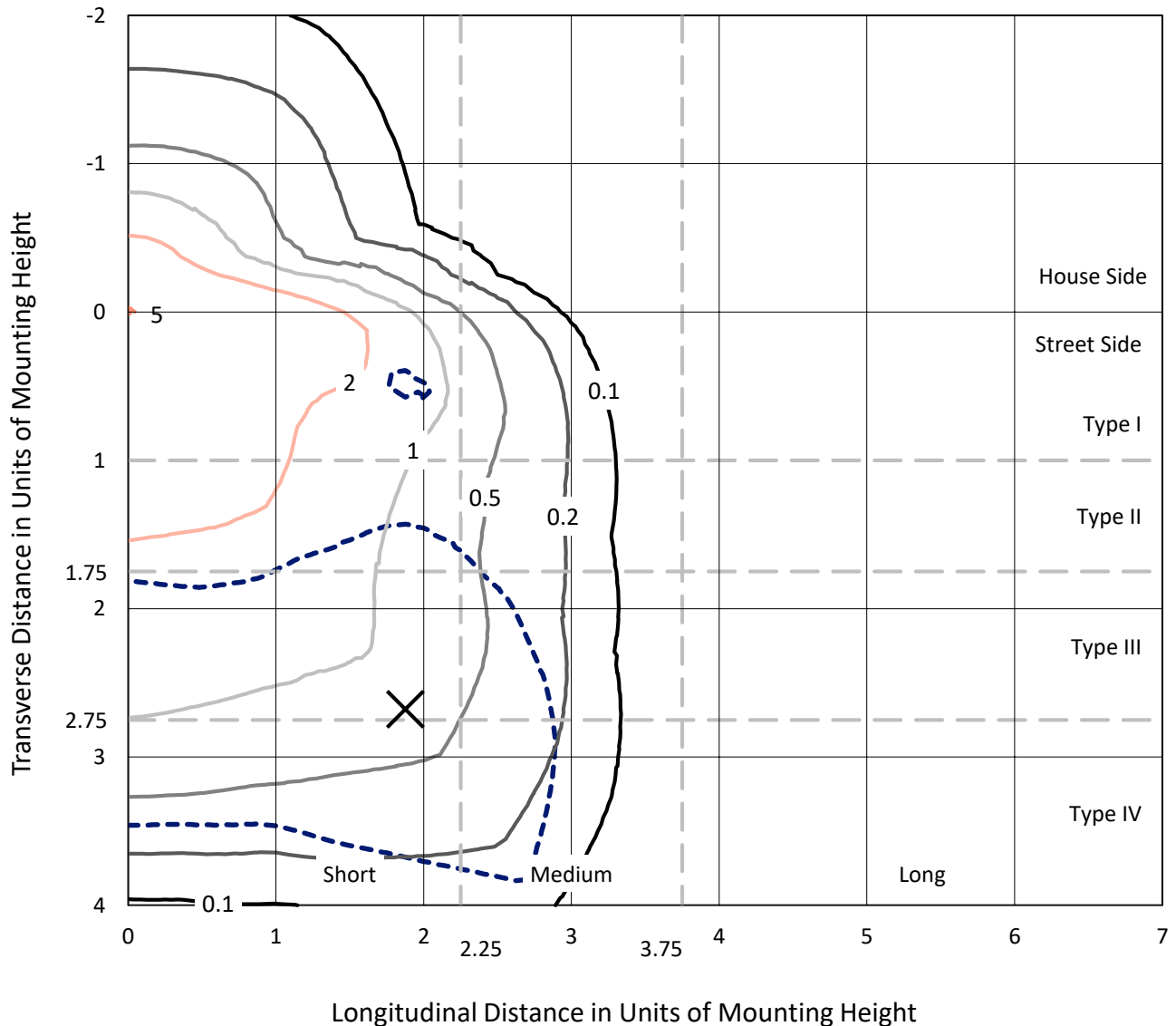


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

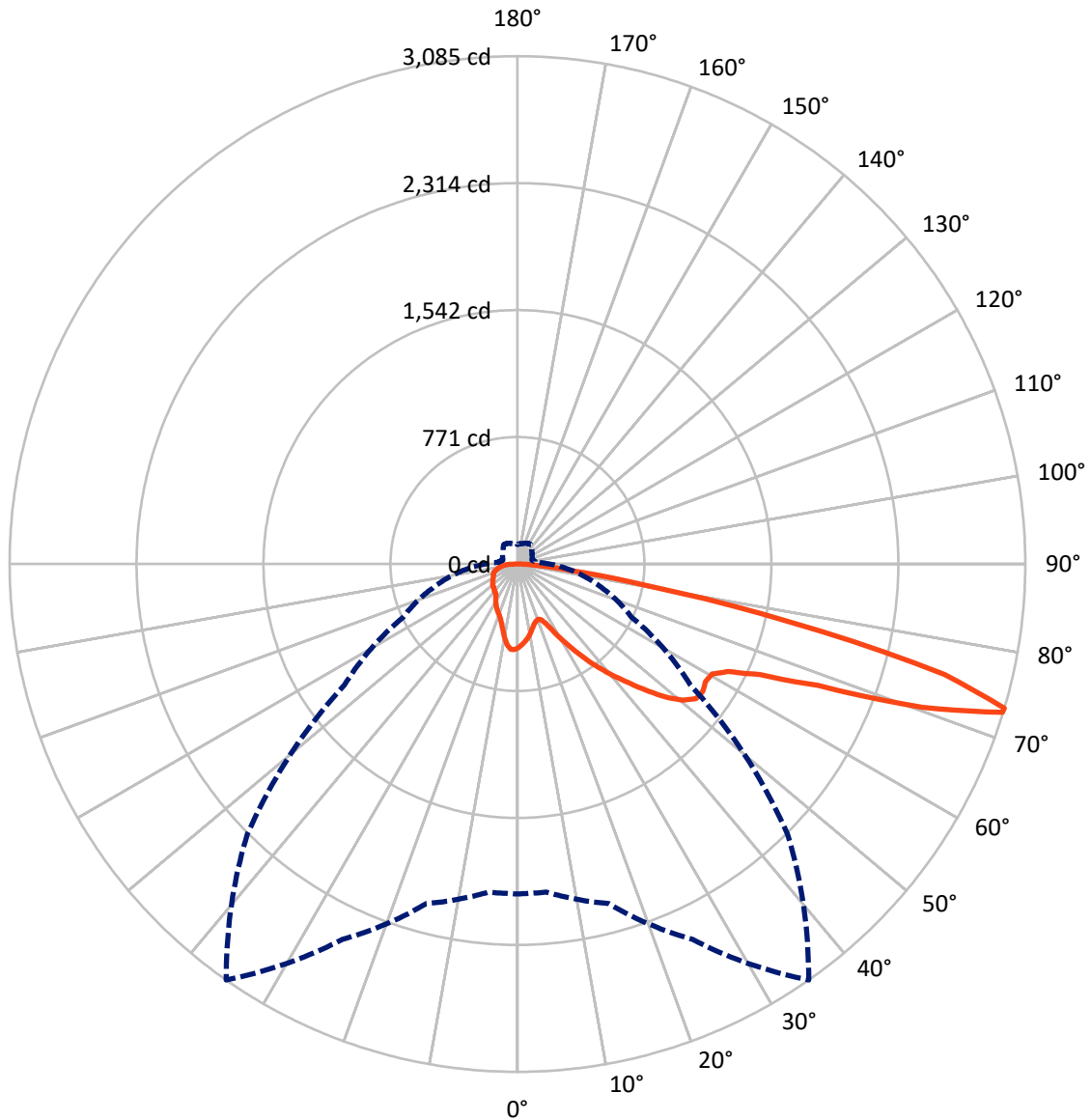


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.9	0.0	642.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	2728.1	0.0	2728.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	3371.0	0.0	3371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.4
10°-20°	115.0	3.4
20°-30°	185.8	5.5
30°-40°	311.6	9.2
40°-50°	480.4	14.3
50°-60°	644.5	19.1
60°-70°	858.6	25.5
70°-80°	654.8	19.4
80°-90°	74.2	2.2
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°	3371.0	100.0
0°-180°	3371.0	100.0

Coefficient of Utilization



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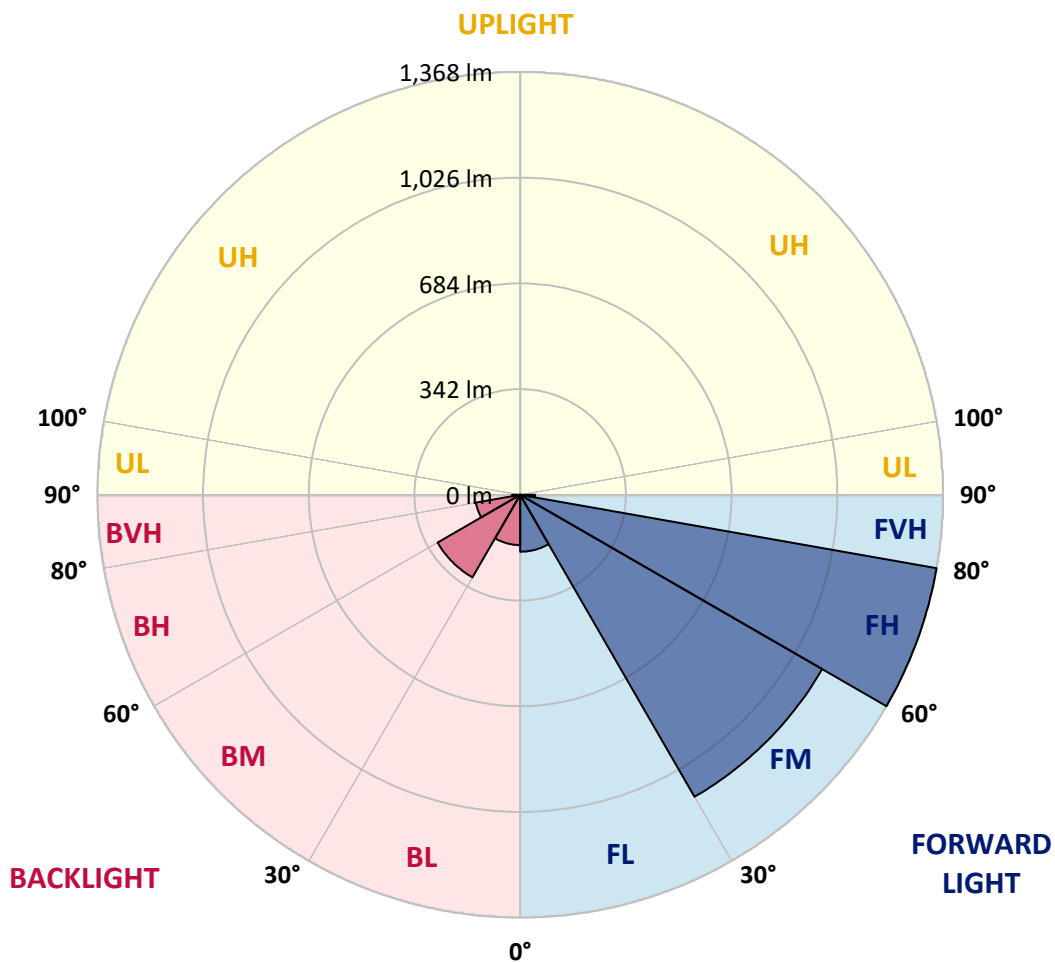
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.2	5.5			
FM	(30°-60°)	1128.0	33.5			
FH	(60°-80°)	1367.9	40.6			G1/1800
FVH	(80°-90°)	48.0	1.4			G1/100
BL	(0°-30°)	162.7	4.8	B1/500		
BM	(30°-60°)	308.5	9.2	B1/1000		
BH	(60°-80°)	145.5	4.3	B1/500		G1/500
BVH	(80°-90°)	26.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8
2.5°	488.7	489.7	488.6	490.0	492.4	495.0	496.8	499.4	502.3	506.4	507.3
5°	465.7	467.2	467.2	469.8	474.5	478.7	482.6	486.8	492.9	499.9	502.6
7.5°	440.5	441.3	442.7	446.6	453.4	459.4	464.9	471.7	480.1	489.4	494.2
10°	410.0	411.2	413.4	418.9	428.2	436.4	444.4	453.7	464.4	475.9	482.1
12.5°	388.5	388.2	389.2	393.2	401.3	411.3	422.8	434.8	447.9	461.4	468.8
15°	381.2	379.4	375.7	374.8	379.1	389.2	402.4	417.2	432.9	449.1	458.3
17.5°	385.8	382.7	372.5	365.0	364.4	372.0	386.1	402.6	420.7	440.5	452.0
20°	414.3	407.0	381.9	364.6	358.6	362.3	374.6	392.1	413.4	439.7	454.4
22.5°	482.4	471.7	418.5	386.2	366.0	361.5	370.7	389.3	414.3	449.7	468.5
25°	581.6	566.4	481.3	440.3	398.5	374.4	376.5	395.6	425.7	473.0	495.7
27.5°	660.0	650.1	563.3	516.6	457.8	409.4	395.5	411.5	449.2	511.2	534.4
30°	706.6	700.6	651.1	603.0	533.4	465.1	431.7	441.3	486.0	564.2	583.3
32.5°	760.7	757.1	732.8	688.6	615.0	538.3	489.2	485.8	535.2	627.8	636.5
35°	816.7	815.6	801.3	769.6	702.6	634.7	565.4	542.5	588.8	693.8	688.3
37.5°	868.8	866.9	858.6	840.2	794.2	738.3	643.1	600.6	646.5	757.0	732.5
40°	964.8	949.6	921.3	907.3	886.8	825.6	704.8	654.8	706.4	817.2	770.7
42.5°	1081.8	1057.1	1004.3	985.2	982.3	894.4	746.9	707.4	766.8	876.9	808.3
45°	1174.0	1150.6	1105.2	1081.0	1091.7	956.7	789.2	763.6	829.0	939.6	847.0
47.5°	1272.2	1235.6	1175.4	1182.7	1206.0	1015.6	832.2	824.0	897.1	1009.6	895.0
50°	1275.8	1247.8	1221.4	1264.9	1301.2	1069.9	886.1	887.3	980.5	1097.9	959.0
52.5°	1201.8	1195.8	1237.7	1306.2	1358.5	1112.8	947.5	952.7	1087.2	1199.2	1029.2
55°	1175.9	1169.1	1217.5	1291.8	1366.3	1148.2	1014.0	1023.4	1216.2	1306.0	1097.7
57.5°	1239.0	1224.0	1227.2	1285.0	1347.3	1187.1	1086.5	1105.5	1356.4	1399.5	1141.7
60°	1415.5	1383.3	1322.1	1320.6	1357.5	1245.3	1170.4	1193.5	1502.1	1444.1	1124.6
62.5°	1663.0	1630.8	1516.2	1441.5	1436.0	1341.5	1273.3	1279.5	1586.3	1383.6	1019.8
65°	1930.9	1902.1	1774.0	1668.7	1617.8	1500.8	1393.0	1317.9	1558.7	1217.0	836.6
67.5°	2256.1	2225.2	2115.1	2017.8	1968.9	1757.9	1477.0	1281.1	1384.1	942.8	601.4
70°	2483.6	2452.0	2408.6	2487.4	2607.1	2128.7	1487.8	1131.7	1033.8	626.6	362.0
72.5°	2186.8	2172.1	2251.3	2583.3	3081.5	2353.7	1344.9	824.0	600.4	332.7	209.5
73°	2003.6	2000.4	2135.4	2516.1	3084.9	2319.1	1282.3	765.9	514.9	294.3	191.5
75°	904.7	930.8	1226.7	1921.8	2680.2	1911.0	902.5	439.3	290.9	203.3	144.6
77.5°	217.4	226.5	383.8	912.7	1692.6	1138.8	408.9	217.2	186.0	143.6	105.5
80°	92.6	95.7	147.8	337.2	796.9	458.6	188.4	145.5	128.7	100.2	74.0
82.5°	51.5	54.7	83.9	153.0	321.7	156.4	114.9	101.3	84.7	60.4	48.1
85°	29.1	30.9	49.0	85.5	136.3	62.8	68.8	67.3	47.8	31.1	23.6
87.5°	13.8	14.9	23.6	39.7	53.4	24.6	35.0	38.5	29.9	18.9	12.3
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°	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8
2.5°	508.5	511.4	514.8	516.6	518.2	520.1	522.1	522.1	522.4	522.5
5°	504.9	510.9	516.2	518.5	519.0	519.0	518.5	515.9	513.6	514.6
7.5°	497.5	506.2	510.7	509.9	503.8	496.6	490.7	483.4	479.7	479.0
10°	486.8	496.8	497.6	489.5	474.3	459.1	446.5	434.2	428.3	426.9
12.5°	475.0	484.2	479.0	462.3	437.9	415.7	399.7	387.2	381.7	380.3
15°	465.4	471.7	458.6	432.4	401.6	378.2	364.9	355.7	351.8	350.6
17.5°	460.4	461.7	437.7	402.3	369.6	350.0	341.7	337.4	335.9	335.1
20°	462.8	453.7	417.8	374.3	343.3	329.6	327.6	326.5	326.2	325.7
22.5°	475.0	451.3	399.5	347.7	320.4	314.4	316.0	315.8	315.5	315.2
25°	496.6	453.4	381.7	322.5	301.1	299.8	302.7	302.7	301.4	301.4
27.5°	525.3	457.8	361.8	298.5	283.6	283.8	286.0	285.4	283.9	283.0
30°	560.3	460.5	338.5	277.0	267.3	266.6	267.3	264.5	260.1	259.8
32.5°	596.0	457.1	311.5	257.9	249.9	248.5	248.0	244.1	239.1	237.6
35°	628.4	444.7	283.9	242.7	233.4	230.2	232.5	231.2	226.6	225.5
37.5°	652.1	421.5	259.2	229.2	221.6	220.8	222.3	222.7	217.4	216.3
40°	667.9	390.1	238.0	217.9	219.3	216.3	211.4	208.0	206.4	205.9
42.5°	680.7	357.4	220.2	212.5	219.8	210.9	200.4	194.9	197.8	199.1
45°	695.4	325.5	205.3	205.9	217.4	204.8	192.8	187.5	188.6	188.9
47.5°	715.7	286.7	189.2	195.2	209.3	200.6	188.1	180.5	175.2	172.7
50°	743.7	240.7	172.6	183.2	201.4	197.5	180.8	172.7	162.9	160.6
52.5°	763.1	197.8	158.8	173.2	194.3	191.3	175.0	164.5	154.1	152.2
55°	752.6	164.3	146.8	162.0	184.9	183.7	170.1	156.1	148.0	146.3
57.5°	700.0	143.1	137.6	151.5	173.4	177.3	163.7	148.9	143.1	142.0
60°	599.6	129.8	131.8	144.4	164.0	170.8	157.2	145.0	141.2	140.3
62.5°	465.2	120.9	127.4	139.2	156.7	166.3	153.6	144.6	143.1	142.1
65°	333.3	113.8	122.7	134.0	150.1	162.0	152.3	143.9	144.2	143.4
67.5°	226.5	107.5	117.0	128.2	143.6	158.3	150.5	141.6	145.7	144.7
70°	158.5	101.3	110.4	120.8	135.5	153.1	147.3	138.2	137.9	134.0
72.5°	123.7	93.2	101.3	110.4	125.1	145.9	140.8	130.6	125.3	121.2
73°	118.0	91.3	99.1	108.1	122.9	144.1	139.1	128.5	122.5	118.8
75°	97.6	82.9	90.0	98.1	113.2	135.7	130.3	119.0	111.4	109.1
77.5°	76.7	70.9	77.7	85.0	99.7	123.4	117.4	106.5	102.3	100.4
80°	56.8	58.8	64.8	71.2	86.4	110.2	104.9	94.1	112.8	108.1
82.5°	40.0	44.5	50.0	55.8	72.5	97.5	91.0	79.8	82.6	68.6
85°	23.6	29.1	34.3	39.3	52.3	80.8	75.1	63.6	52.1	49.7
87.5°	13.8	16.2	17.6	22.8	35.9	60.9	52.9	47.1	27.0	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)