

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: P192229

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192229
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-T3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4107 lumens
Efficiency: N/A
Efficacy: 120.8 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

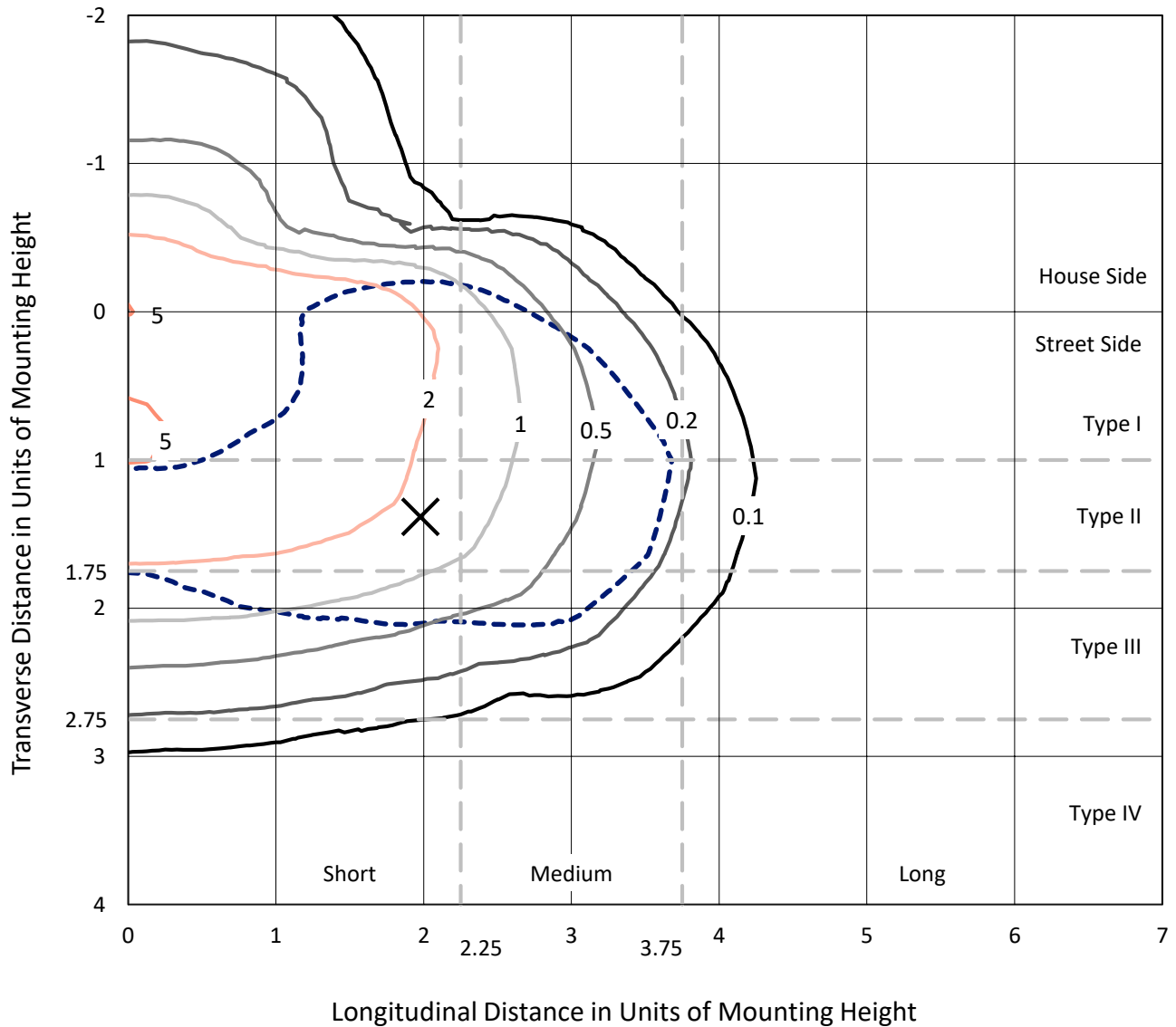


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Iso-Footcandle Lines of Horizontal Illumination

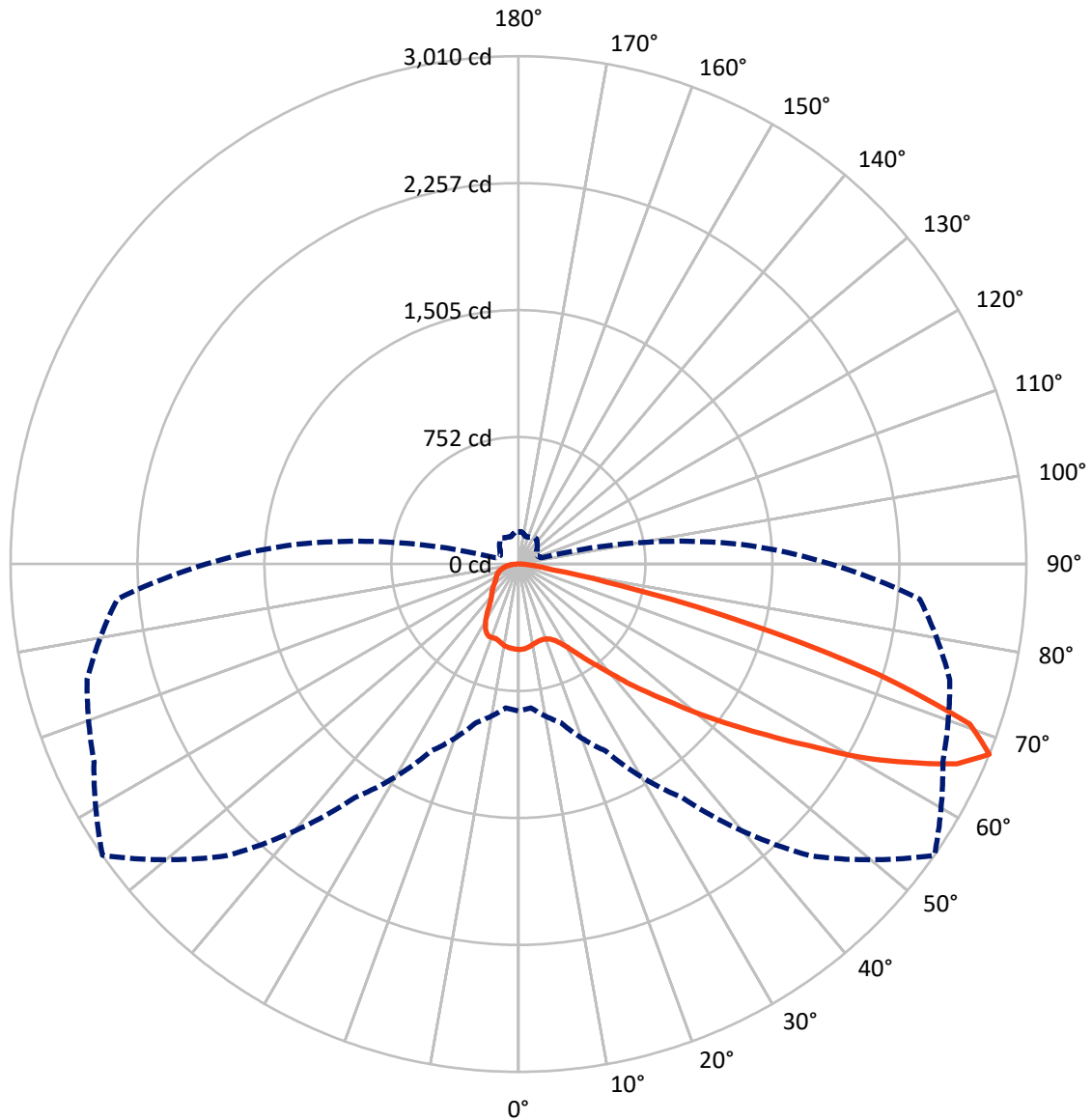
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	887.2	0.0	887.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3219.8	0.0	3219.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	4107.0	0.0	4107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	1.2
10°-20°	133.9	3.3
20°-30°	224.3	5.5
30°-40°	368.8	9.0
40°-50°	620.8	15.1
50°-60°	977.1	23.8
60°-70°	1166.0	28.4
70°-80°	500.7	12.2
80°-90°	68.3	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°	4107.0	100.0
0°-180°	4107.0	100.0



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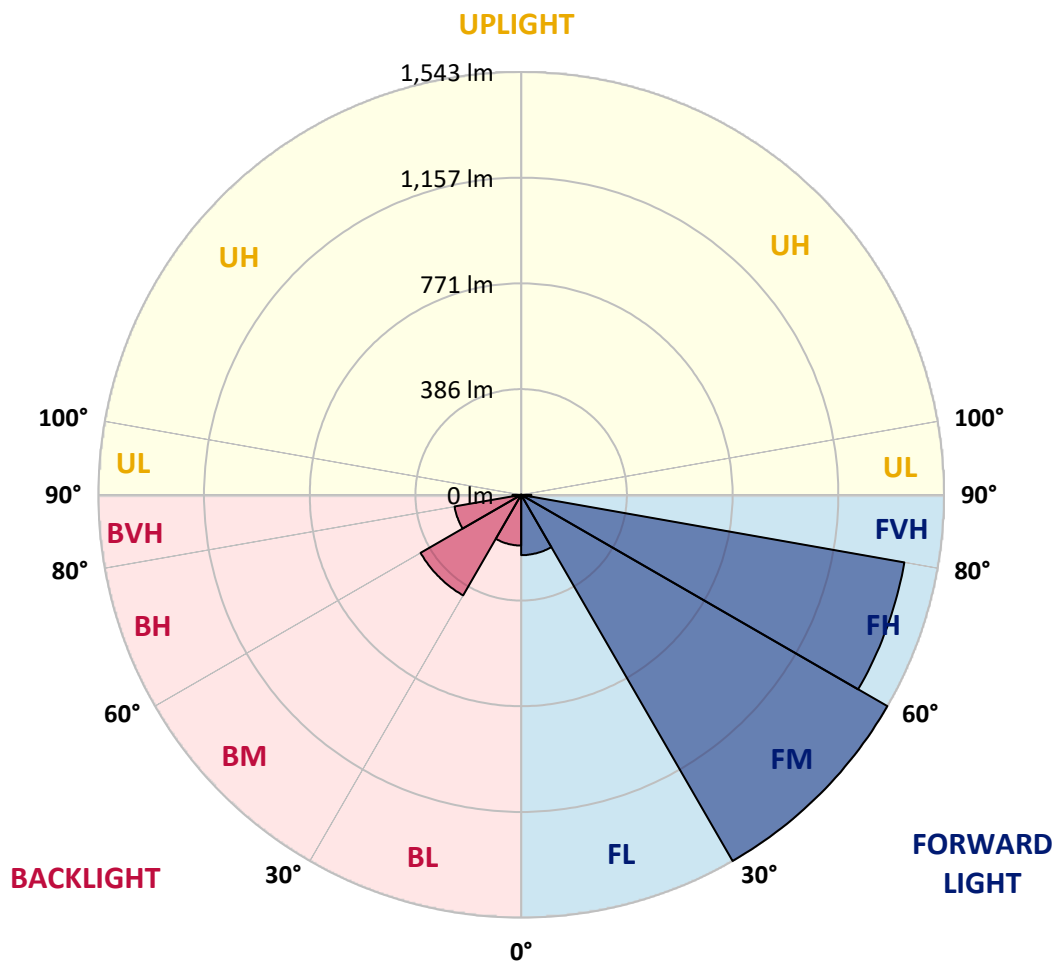
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.1	5.4			
FM	(30°-60°)	1542.9	37.6			
FH	(60°-80°)	1419.8	34.6			G1/1800
FVH	(80°-90°)	37.0	0.9			G1/100
BL	(0°-30°)	185.3	4.5	B1/500		
BM	(30°-60°)	423.7	10.3	B1/1000		
BH	(60°-80°)	246.9	6.0	B1/500		G1/500
BVH	(80°-90°)	31.3	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°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	502.1	502.3	502.7	504.3	505.6	505.2	505.4	504.7	504.5	503.3	504.5
5°	495.7	496.3	496.5	499.1	500.7	501.1	500.5	499.5	498.3	497.1	497.7
7.5°	481.2	482.8	483.0	486.6	489.2	492.6	492.8	492.9	492.4	491.6	492.8
10°	472.1	472.5	472.3	474.9	476.9	480.6	482.8	486.6	488.2	488.6	489.4
12.5°	471.5	471.1	470.5	470.5	469.9	471.5	475.5	480.8	484.6	485.8	486.8
15°	477.9	477.7	475.7	472.7	468.9	467.8	471.1	477.1	482.0	484.6	485.6
17.5°	492.2	491.0	487.8	481.0	472.9	469.7	470.1	475.1	480.8	484.2	485.2
20°	518.3	518.3	511.6	498.9	484.4	476.9	473.3	476.3	481.8	486.4	487.8
22.5°	563.6	564.0	552.7	531.8	507.4	491.4	482.4	481.8	488.4	493.5	495.1
25°	627.6	626.1	610.2	580.4	543.3	516.8	501.3	497.7	503.3	509.0	511.0
27.5°	702.2	696.5	677.6	641.7	593.7	554.8	531.0	525.3	530.6	537.2	539.2
30°	776.0	770.1	747.7	708.4	655.0	605.8	571.7	562.4	569.9	579.2	580.4
32.5°	849.8	849.8	824.8	779.0	720.9	666.7	625.9	614.7	627.2	638.6	641.1
35°	938.1	938.5	914.3	859.1	796.7	739.3	694.3	686.2	705.0	712.9	719.1
37.5°	1046.6	1048.8	1017.6	951.0	882.5	822.2	768.7	757.6	776.4	798.0	817.9
40°	1163.8	1166.6	1132.3	1050.2	981.7	918.7	860.7	840.7	872.0	913.3	938.9
42.5°	1275.7	1290.0	1256.9	1172.4	1098.8	1033.5	974.8	945.6	984.9	1047.2	1069.4
45°	1437.4	1447.7	1390.0	1313.4	1244.2	1171.2	1093.4	1062.7	1117.6	1196.2	1200.7
47.5°	1545.1	1537.4	1508.0	1460.4	1416.6	1348.3	1231.3	1197.6	1270.6	1363.0	1337.4
50°	1602.4	1604.8	1600.8	1603.6	1605.2	1562.4	1400.3	1354.1	1441.2	1552.8	1493.9
52.5°	1656.0	1640.1	1653.2	1718.3	1796.8	1781.0	1584.2	1536.0	1624.1	1763.5	1659.4
55°	1654.8	1630.6	1673.2	1788.1	1958.5	1976.8	1790.7	1735.1	1817.5	1989.5	1834.7
57.5°	1596.3	1597.5	1663.1	1813.5	2071.2	2160.8	2030.3	1947.0	2022.6	2218.4	1994.8
60°	1515.7	1526.7	1621.3	1809.3	2161.4	2311.8	2324.3	2175.3	2223.5	2426.5	2127.3
62.5°	1385.8	1397.3	1527.8	1766.1	2147.7	2457.2	2590.1	2434.4	2433.6	2552.6	2166.2
65°	1180.9	1177.5	1314.6	1604.4	2032.9	2564.7	2854.1	2658.4	2591.9	2554.6	2088.0
67.5°	870.8	855.8	973.4	1222.0	1689.7	2444.3	3009.5	2775.0	2645.9	2386.6	1849.2
70°	451.9	436.8	532.0	713.5	1111.3	1907.7	2837.5	2714.7	2526.6	2000.6	1448.7
72.5°	193.2	190.6	229.3	313.0	537.6	1100.4	2224.9	2349.7	2168.0	1490.6	996.0
75°	129.9	129.1	143.6	170.6	241.8	446.5	1392.4	1667.9	1586.2	924.2	560.2
77.5°	102.0	101.0	109.5	122.6	156.7	176.2	617.9	895.4	828.8	402.3	245.2
80°	79.7	79.0	84.3	91.4	112.7	111.1	203.3	356.3	275.7	154.1	119.2
82.5°	62.9	62.9	67.2	67.4	79.9	75.8	106.1	156.9	137.7	89.9	73.0
85°	57.5	57.5	62.1	50.4	52.2	47.8	65.9	93.0	87.3	36.9	31.7
87.5°	29.0	28.2	52.2	44.6	28.4	25.4	32.1	45.0	48.4	20.4	15.9
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°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	504.1	503.9	504.3	504.5	506.0	508.2	509.2	510.6	511.4	511.0
5°	498.1	498.5	500.1	501.3	504.1	507.6	509.6	511.2	512.6	512.0
7.5°	493.1	494.1	496.5	497.5	499.1	500.1	499.9	500.5	501.7	500.3
10°	490.4	491.6	493.3	492.0	488.2	482.8	477.9	475.3	476.1	475.1
12.5°	487.6	489.2	487.8	481.2	470.7	463.8	460.0	460.4	462.2	462.6
15°	486.0	486.6	480.6	468.4	457.6	456.6	458.6	458.2	458.4	458.4
17.5°	486.0	484.4	473.3	461.0	456.4	454.7	448.5	440.8	437.4	436.2
20°	488.6	484.4	470.9	462.8	452.9	437.6	421.3	407.1	400.7	398.9
22.5°	496.3	489.2	477.7	463.6	435.4	409.8	384.0	367.0	355.5	353.5
25°	512.0	504.1	491.0	453.1	407.6	371.1	341.8	322.7	311.2	309.7
27.5°	539.4	534.2	498.1	429.9	370.8	331.7	304.5	289.8	281.3	280.7
30°	580.6	578.0	494.5	395.5	325.3	293.4	280.3	271.8	265.4	265.2
32.5°	646.5	625.7	482.8	353.7	283.9	266.2	260.9	255.7	250.7	250.7
35°	731.2	664.1	460.6	308.9	258.7	251.1	244.4	236.3	229.7	229.3
37.5°	830.8	687.9	420.7	272.8	246.8	241.0	231.1	219.0	207.5	205.5
40°	931.3	695.1	364.6	250.5	239.2	230.9	218.8	204.5	193.4	192.8
42.5°	1023.6	681.4	305.1	235.3	231.7	220.6	207.9	195.2	186.5	186.3
45°	1101.0	645.9	255.1	220.8	223.8	211.3	200.0	189.6	182.9	181.5
47.5°	1173.8	595.7	220.0	205.5	215.8	206.1	196.6	186.9	180.3	179.3
50°	1258.3	541.5	195.4	190.6	208.9	204.3	199.4	189.2	178.3	177.1
52.5°	1360.6	494.7	176.2	177.5	203.5	206.7	206.5	196.0	176.9	175.4
55°	1474.9	442.8	161.7	166.8	201.3	211.1	208.3	202.3	178.1	175.8
57.5°	1587.4	382.1	151.6	158.7	198.2	210.7	199.8	191.2	180.9	177.5
60°	1671.7	300.5	143.8	151.6	191.2	204.1	190.4	179.1	180.3	177.7
62.5°	1677.2	232.3	134.5	145.4	180.7	197.6	184.3	173.8	182.9	180.5
65°	1578.6	175.6	125.6	138.1	169.4	193.4	178.3	170.8	188.3	185.7
67.5°	1329.1	141.2	118.0	130.5	158.1	184.7	173.0	168.0	193.0	188.5
70°	959.5	120.4	110.7	121.4	148.0	174.8	168.2	163.1	180.1	173.0
72.5°	590.7	104.3	102.4	109.3	140.2	164.4	161.1	153.7	162.3	156.5
75°	295.0	90.5	93.0	97.4	129.3	152.7	149.2	141.8	143.0	141.8
77.5°	141.2	77.4	82.1	85.5	115.3	139.5	135.7	128.1	126.8	127.0
80°	89.5	64.7	69.2	71.6	103.0	124.0	120.2	112.7	128.5	119.2
82.5°	55.9	52.6	53.8	58.1	89.7	107.9	103.0	96.2	115.8	91.6
85°	30.9	36.7	38.3	42.1	69.0	90.3	85.3	76.8	68.8	67.6
87.5°	18.4	21.8	22.4	25.2	46.4	65.3	57.7	54.8	45.4	45.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)