

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: P193979

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193979
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-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4110 lumens
Efficiency: N/A
Efficacy: 93.4 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): 44
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

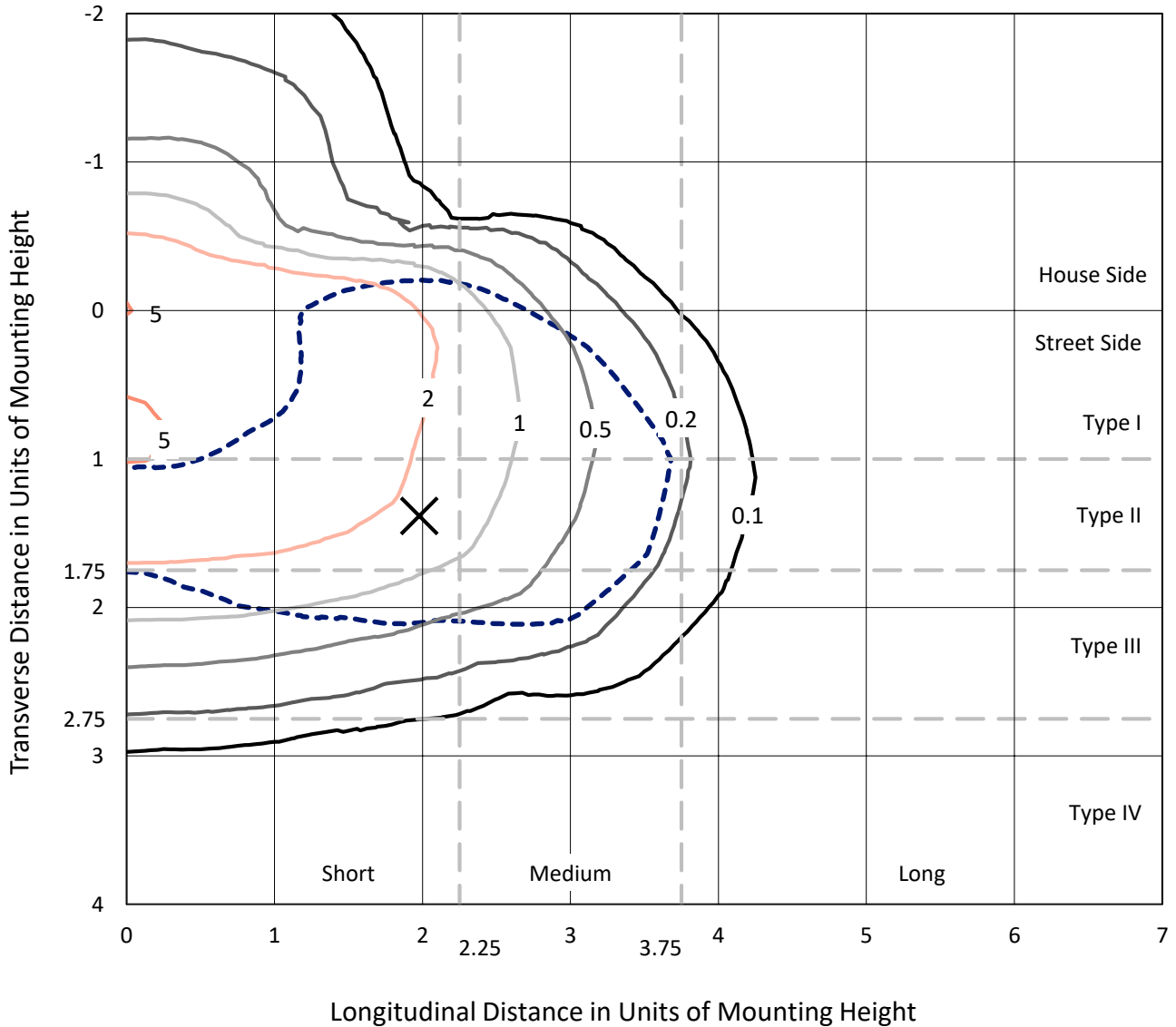


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Iso-Footcandle Lines of Horizontal Illumination

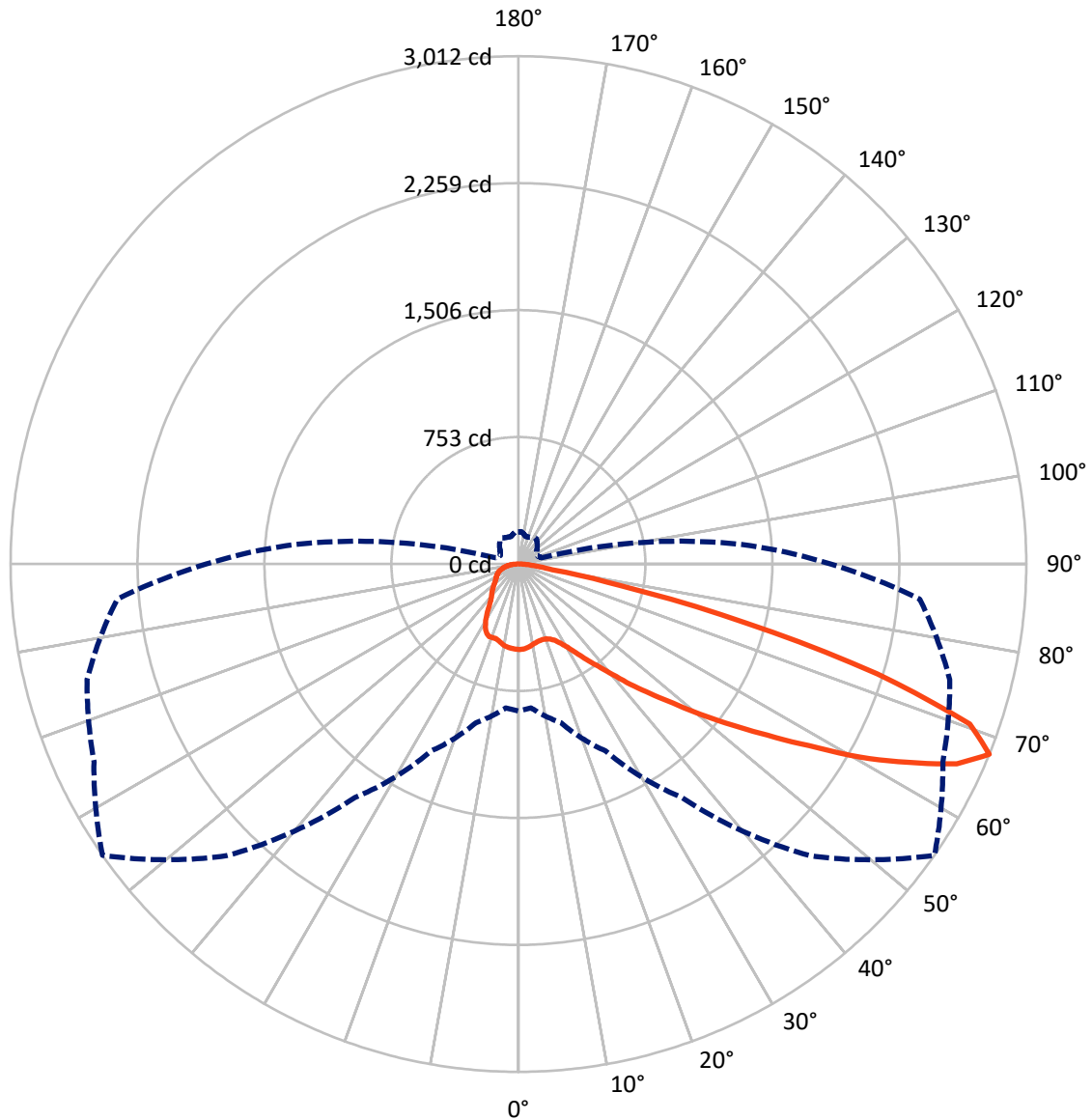
× Max cd
 - - - 1/2 Max cd



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	887.9	0.0	887.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3222.2	0.0	3222.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	4110.0	0.0	4110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	1.2
10°-20°	134.0	3.3
20°-30°	224.4	5.5
30°-40°	369.1	9.0
40°-50°	621.2	15.1
50°-60°	977.8	23.8
60°-70°	1166.9	28.4
70°-80°	501.1	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°	4110.0	100.0
0°-180°	4110.0	100.0



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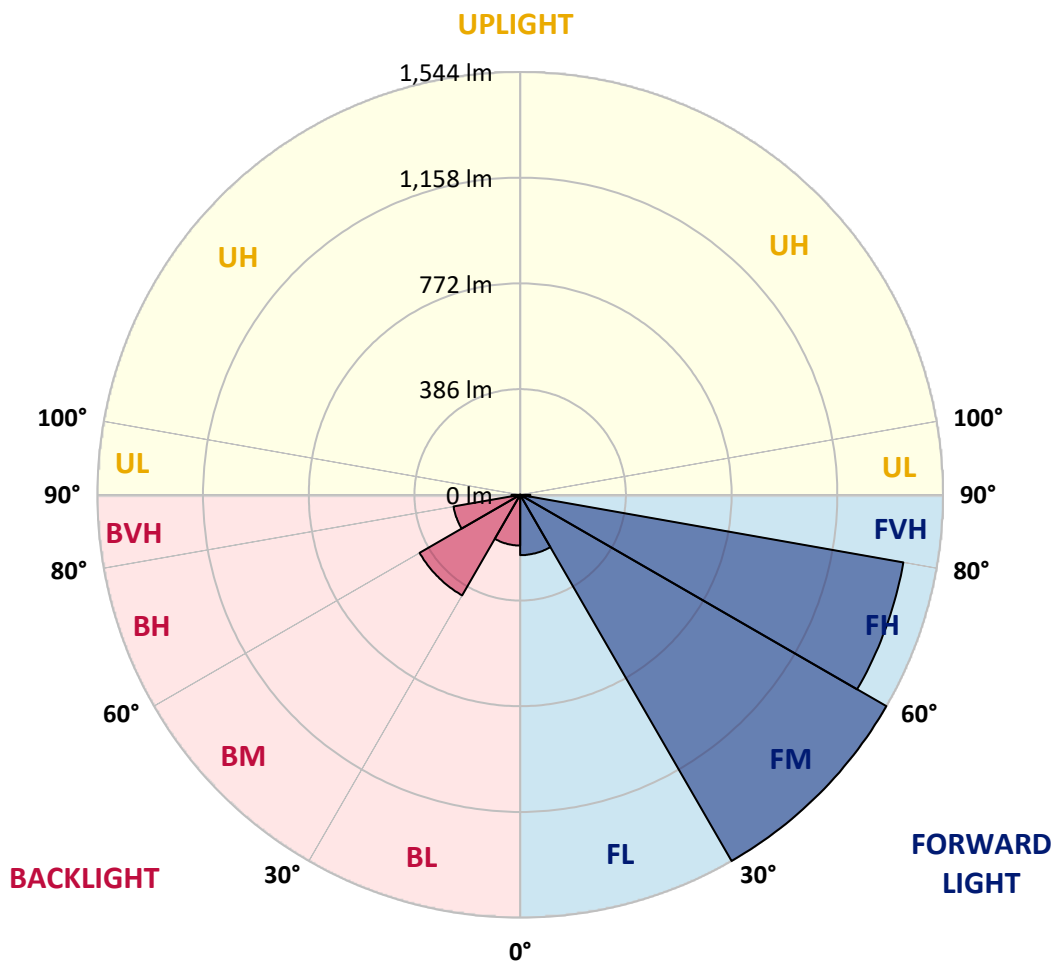
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.3	5.4			
FM	(30°-60°)	1544.0	37.6			
FH	(60°-80°)	1420.9	34.6			G1/1800
FVH	(80°-90°)	37.0	0.9			G1/100
BL	(0°-30°)	185.4	4.5	B1/500		
BM	(30°-60°)	424.0	10.3	B1/1000		
BH	(60°-80°)	247.1	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°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
2.5°	502.4	502.6	503.0	504.6	506.0	505.6	505.8	505.0	504.8	503.6	504.8
5°	496.1	496.7	496.9	499.5	501.1	501.4	500.9	499.9	498.7	497.5	498.1
7.5°	481.6	483.2	483.4	487.0	489.5	492.9	493.1	493.3	492.7	491.9	493.1
10°	472.5	472.9	472.7	475.2	477.2	481.0	483.2	487.0	488.5	488.9	489.7
12.5°	471.9	471.5	470.9	470.9	470.3	471.9	475.8	481.2	485.0	486.2	487.2
15°	478.2	478.0	476.0	473.1	469.3	468.1	471.5	477.4	482.4	485.0	486.0
17.5°	492.5	491.3	488.1	481.4	473.3	470.1	470.5	475.4	481.2	484.6	485.6
20°	518.7	518.7	512.0	499.3	484.8	477.2	473.7	476.6	482.2	486.8	488.1
22.5°	564.0	564.4	553.1	532.2	507.8	491.7	482.8	482.2	488.7	493.9	495.5
25°	628.1	626.5	610.6	580.9	543.7	517.1	501.6	498.1	503.6	509.4	511.4
27.5°	702.7	697.0	678.1	642.2	594.2	555.2	531.4	525.7	531.0	537.6	539.6
30°	776.6	770.6	748.2	708.9	655.5	606.3	572.1	562.8	570.3	579.7	580.9
32.5°	850.4	850.4	825.4	779.6	721.4	667.2	626.3	615.2	627.7	639.0	641.6
35°	938.8	939.2	915.0	859.8	797.2	739.9	694.8	686.7	705.5	713.5	719.6
37.5°	1047.4	1049.5	1018.4	951.7	883.2	822.8	769.2	758.1	777.0	798.6	818.5
40°	1164.7	1167.5	1133.1	1050.9	982.4	919.3	861.4	841.3	872.7	914.0	939.6
42.5°	1276.6	1290.9	1257.8	1173.2	1099.6	1034.3	975.5	946.3	985.6	1048.0	1070.2
45°	1438.4	1448.8	1391.0	1314.4	1245.1	1172.0	1094.2	1063.4	1118.4	1197.0	1201.6
47.5°	1546.2	1538.5	1509.1	1461.5	1417.6	1349.3	1232.2	1198.4	1271.5	1364.0	1338.4
50°	1603.6	1606.0	1602.0	1604.8	1606.4	1563.5	1401.3	1355.1	1442.2	1554.0	1495.0
52.5°	1657.2	1641.3	1654.4	1719.5	1798.1	1782.3	1585.3	1537.1	1625.2	1764.8	1660.6
55°	1656.0	1631.8	1674.5	1789.4	1959.9	1978.2	1792.0	1736.4	1818.8	1990.9	1836.1
57.5°	1597.4	1598.6	1664.3	1814.8	2072.7	2162.4	2031.8	1948.4	2024.1	2220.0	1996.3
60°	1516.9	1527.8	1622.5	1810.7	2163.0	2313.5	2326.0	2176.9	2225.2	2428.2	2128.9
62.5°	1386.8	1398.3	1529.0	1767.4	2149.3	2459.0	2592.0	2436.2	2435.4	2554.5	2167.8
65°	1181.8	1178.4	1315.6	1605.6	2034.4	2566.6	2856.2	2660.3	2593.8	2556.5	2089.6
67.5°	871.5	856.4	974.1	1222.9	1690.9	2446.1	3011.7	2777.0	2647.8	2388.3	1850.6
70°	452.2	437.1	532.4	714.1	1112.1	1909.1	2839.6	2716.7	2528.5	2002.0	1449.8
72.5°	193.4	190.8	229.5	313.3	538.0	1101.2	2226.5	2351.4	2169.6	1491.6	996.7
75°	130.0	129.2	143.7	170.7	242.0	446.9	1393.4	1669.1	1587.3	924.9	560.6
77.5°	102.0	101.0	109.6	122.7	156.8	176.3	618.4	896.1	829.4	402.6	245.4
80°	79.8	79.0	84.4	91.5	112.8	111.2	203.5	356.5	275.9	154.2	119.3
82.5°	62.9	62.9	67.3	67.5	80.0	75.8	106.2	157.0	137.8	89.9	73.1
85°	57.6	57.6	62.1	50.4	52.2	47.8	65.9	93.1	87.3	36.9	31.8
87.5°	29.0	28.2	52.2	44.7	28.4	25.4	32.2	45.1	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°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
2.5°	504.4	504.2	504.6	504.8	506.4	508.6	509.6	511.0	511.8	511.4
5°	498.5	498.9	500.5	501.6	504.4	508.0	510.0	511.6	513.0	512.4
7.5°	493.5	494.5	496.9	497.9	499.5	500.5	500.3	500.9	502.0	500.7
10°	490.7	491.9	493.7	492.3	488.5	483.2	478.2	475.6	476.4	475.4
12.5°	487.9	489.5	488.1	481.6	471.1	464.1	460.4	460.8	462.5	462.9
15°	486.4	487.0	481.0	468.7	458.0	457.0	459.0	458.6	458.8	458.8
17.5°	486.4	484.8	473.7	461.3	456.8	455.0	448.8	441.1	437.7	436.5
20°	488.9	484.8	471.3	463.1	453.2	437.9	421.6	407.4	401.0	399.2
22.5°	496.7	489.5	478.0	463.9	435.7	410.1	384.3	367.3	355.7	353.8
25°	512.4	504.4	491.3	453.4	407.9	371.4	342.0	323.0	311.5	309.9
27.5°	539.8	534.6	498.5	430.2	371.0	331.9	304.7	290.0	281.5	280.9
30°	581.1	578.5	494.9	395.8	325.6	293.6	280.5	272.0	265.6	265.4
32.5°	647.0	626.1	483.2	354.0	284.1	266.4	261.0	255.9	250.9	250.9
35°	731.7	664.6	461.0	309.1	258.9	251.3	244.6	236.4	229.9	229.5
37.5°	831.4	688.4	421.0	273.0	247.0	241.2	231.3	219.2	207.6	205.7
40°	932.0	695.6	364.9	250.7	239.4	231.1	219.0	204.7	193.6	193.0
42.5°	1024.3	681.9	305.3	235.4	231.9	220.7	208.0	195.3	186.6	186.4
45°	1101.8	646.4	255.3	220.9	223.9	211.4	200.1	189.8	183.0	181.6
47.5°	1174.6	596.1	220.2	205.7	216.0	206.3	196.7	187.0	180.4	179.5
50°	1259.2	541.9	195.5	190.8	209.0	204.5	199.5	189.4	178.5	177.3
52.5°	1361.6	495.1	176.3	177.7	203.7	206.9	206.7	196.1	177.1	175.5
55°	1476.0	443.1	161.8	167.0	201.5	211.2	208.4	202.5	178.3	175.9
57.5°	1588.5	382.3	151.7	158.8	198.3	210.8	199.9	191.4	181.0	177.7
60°	1672.9	300.7	143.9	151.7	191.4	204.3	190.6	179.3	180.4	177.9
62.5°	1678.4	232.5	134.6	145.5	180.8	197.7	184.4	173.9	183.0	180.6
65°	1579.8	175.7	125.7	138.2	169.5	193.6	178.5	170.9	188.4	185.8
67.5°	1330.0	141.3	118.1	130.6	158.2	184.8	173.1	168.1	193.2	188.6
70°	960.2	120.5	110.8	121.5	148.1	174.9	168.3	163.2	180.3	173.1
72.5°	591.2	104.4	102.4	109.4	140.3	164.6	161.2	153.8	162.4	156.6
75°	295.2	90.5	93.1	97.5	129.4	152.9	149.3	141.9	143.1	141.9
77.5°	141.3	77.4	82.2	85.6	115.3	139.6	135.8	128.2	126.9	127.0
80°	89.5	64.7	69.3	71.7	103.0	124.1	120.3	112.8	128.6	119.3
82.5°	56.0	52.6	53.8	58.2	89.7	108.0	103.0	96.3	115.9	91.7
85°	31.0	36.7	38.3	42.1	69.1	90.3	85.4	76.8	68.9	67.7
87.5°	18.5	21.8	22.4	25.2	46.5	65.3	57.8	54.8	45.5	45.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)