

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: P194059

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194059
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 4134 lumens
Efficiency: N/A
Efficacy: 94.0 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): 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

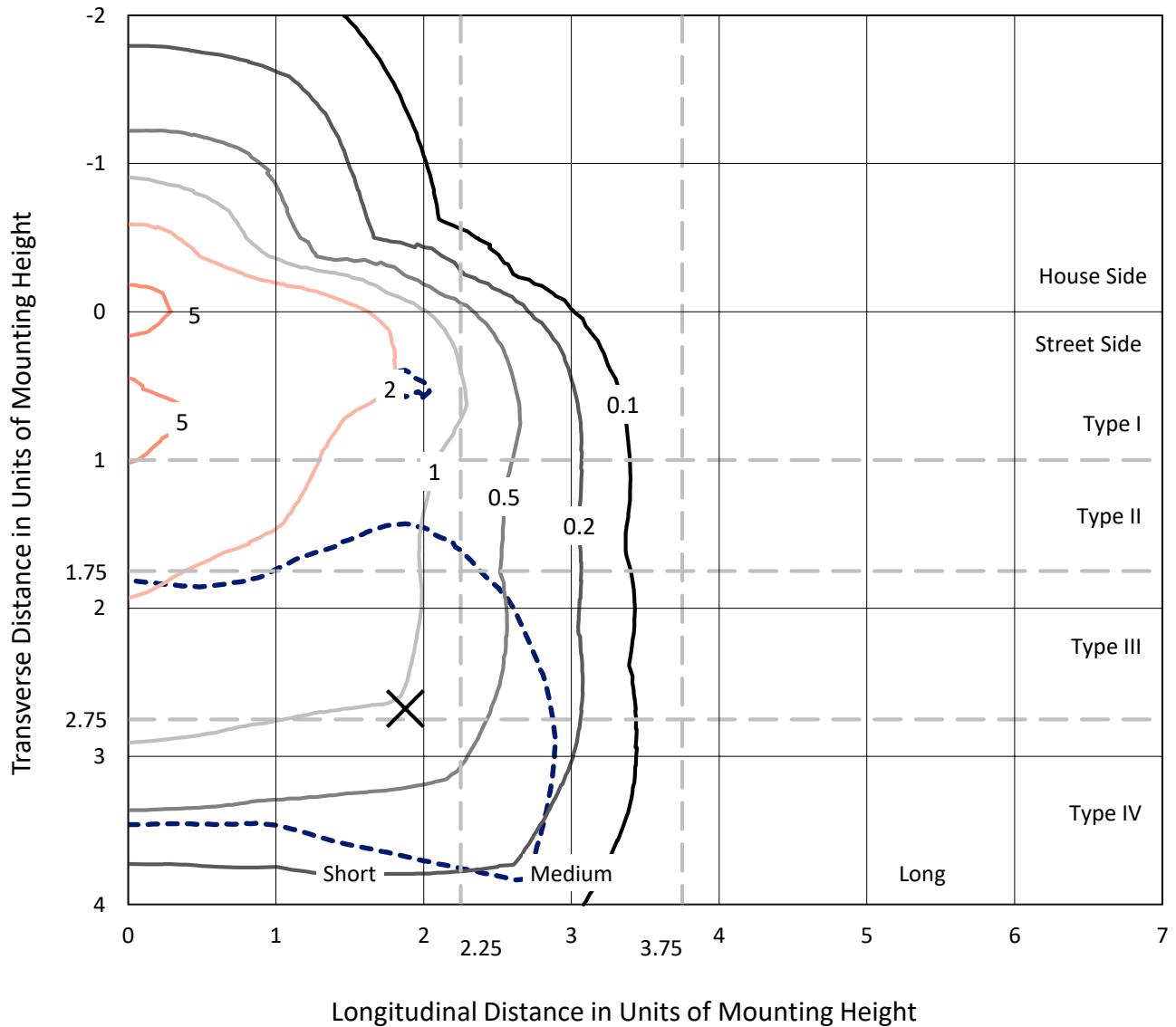


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

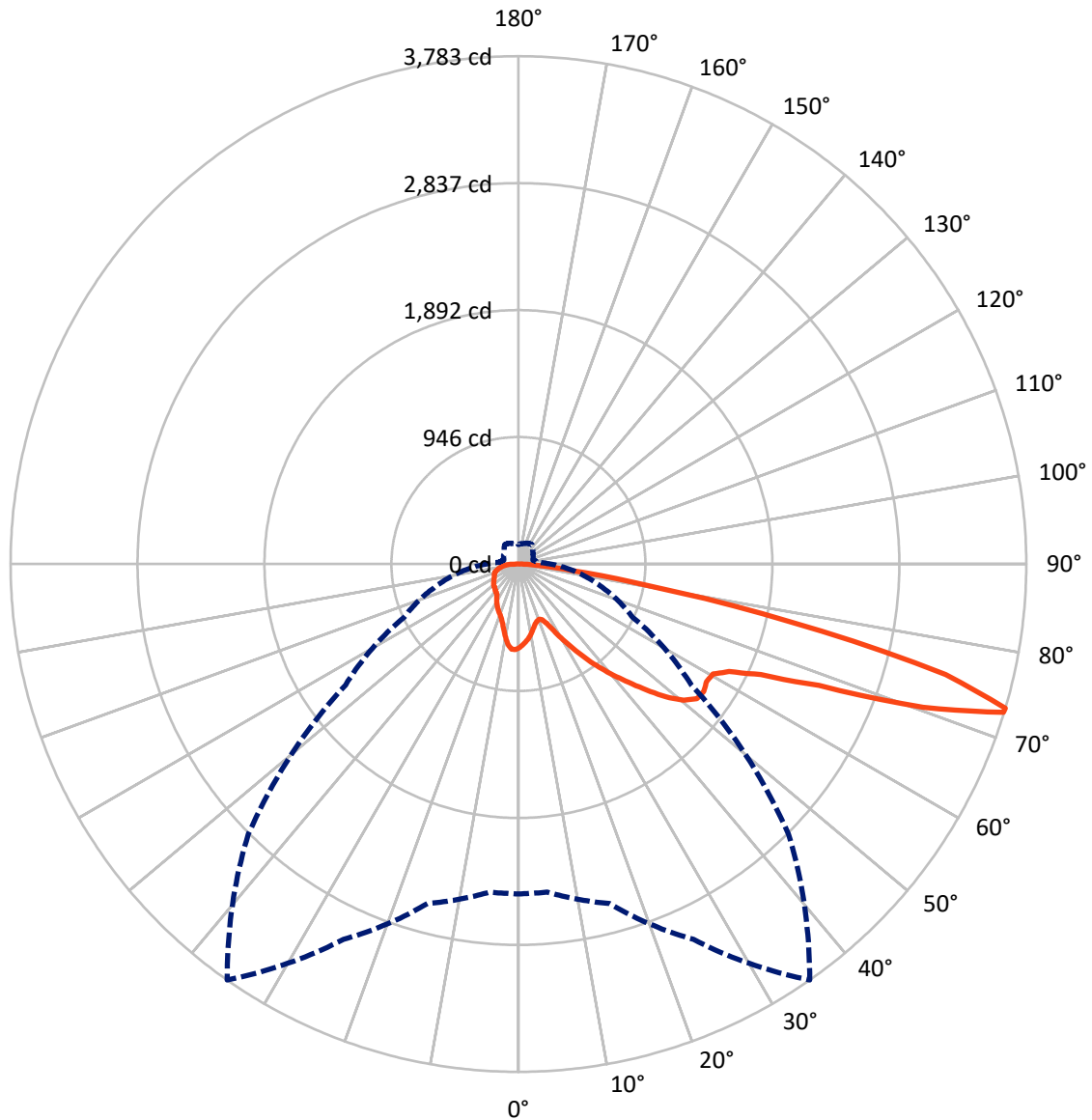


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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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	788.5	0.0	788.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3345.5	0.0	3345.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	4134.0	0.0	4134.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	141.0	3.4
20°-30°	227.9	5.5
30°-40°	382.2	9.2
40°-50°	589.1	14.3
50°-60°	790.4	19.1
60°-70°	1052.9	25.5
70°-80°	803.1	19.4
80°-90°	91.0	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°	4134.0	100.0
0°-180°	4134.0	100.0



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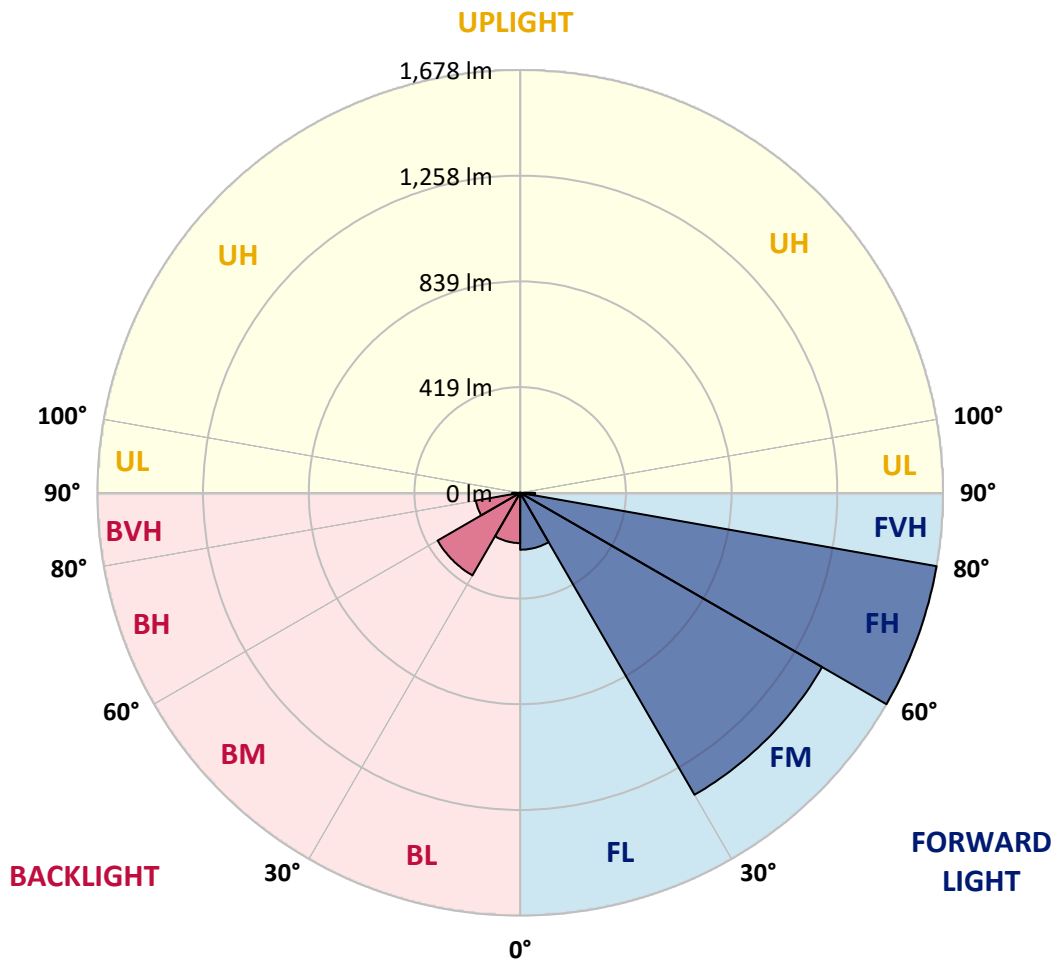
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.9	5.5			
FM	(30°-60°)	1383.3	33.5			
FH	(60°-80°)	1677.6	40.6			G1/1800
FVH	(80°-90°)	58.8	1.4			G1/100
BL	(0°-30°)	199.5	4.8	B1/500		
BM	(30°-60°)	378.4	9.2	B1/1000		
BH	(60°-80°)	178.4	4.3	B1/500		G1/500
BVH	(80°-90°)	32.2	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°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
2.5°	599.3	600.5	599.1	600.9	603.9	607.1	609.3	612.4	616.0	621.0	622.2
5°	571.1	572.9	572.9	576.1	581.9	587.0	591.8	597.0	604.5	613.0	616.4
7.5°	540.2	541.2	543.0	547.7	556.1	563.4	570.2	578.5	588.8	600.1	606.1
10°	502.9	504.2	507.0	513.8	525.1	535.2	544.9	556.5	569.6	583.6	591.2
12.5°	476.4	476.1	477.2	482.2	492.1	504.4	518.5	533.2	549.3	565.8	574.9
15°	467.5	465.3	460.8	459.6	464.9	477.2	493.5	511.6	530.8	550.7	562.0
17.5°	473.1	469.3	456.8	447.7	446.9	456.2	473.5	493.7	516.0	540.2	554.3
20°	508.0	499.1	468.3	447.1	439.7	444.3	459.4	480.8	507.0	539.2	557.2
22.5°	591.6	578.5	513.2	473.7	448.9	443.3	454.6	477.4	508.0	551.5	574.5
25°	713.3	694.6	590.2	540.0	488.8	459.2	461.8	485.2	522.1	580.1	607.9
27.5°	809.4	797.3	690.9	633.5	561.4	502.1	485.0	504.6	550.9	626.9	655.3
30°	866.5	859.2	798.4	739.5	654.1	570.3	529.5	541.2	596.0	691.8	715.3
32.5°	932.8	928.5	898.7	844.5	754.2	660.1	599.9	595.8	656.3	769.9	780.6
35°	1001.5	1000.1	982.7	943.8	861.6	778.4	693.4	665.2	722.0	850.9	844.1
37.5°	1065.5	1063.1	1053.0	1030.3	973.9	905.5	788.7	736.5	792.9	928.3	898.3
40°	1183.2	1164.5	1129.8	1112.7	1087.5	1012.5	864.4	803.0	866.3	1002.1	945.2
42.5°	1326.7	1296.3	1231.6	1208.2	1204.6	1096.8	916.0	867.5	940.4	1075.4	991.2
45°	1439.7	1411.1	1355.3	1325.7	1338.8	1173.3	967.8	936.4	1016.6	1152.2	1038.7
47.5°	1560.2	1515.3	1441.5	1450.4	1479.0	1245.5	1020.6	1010.5	1100.2	1238.2	1097.6
50°	1564.5	1530.2	1497.8	1551.2	1595.7	1312.0	1086.7	1088.1	1202.4	1346.4	1176.0
52.5°	1473.8	1466.5	1517.9	1601.9	1666.0	1364.6	1161.9	1168.3	1333.3	1470.6	1262.2
55°	1442.1	1433.7	1493.1	1584.2	1675.5	1408.1	1243.5	1255.0	1491.5	1601.7	1346.2
57.5°	1519.5	1501.0	1505.0	1575.9	1652.3	1455.7	1332.5	1355.7	1663.4	1716.2	1400.2
60°	1735.9	1696.4	1621.3	1619.5	1664.8	1527.2	1435.3	1463.7	1842.1	1771.0	1379.1
62.5°	2039.4	1999.9	1859.3	1767.8	1761.1	1645.1	1561.6	1569.1	1945.3	1696.8	1250.7
65°	2367.9	2332.6	2175.6	2046.3	1984.0	1840.5	1708.3	1616.2	1911.6	1492.5	1026.0
67.5°	2766.8	2728.9	2593.9	2474.6	2414.6	2155.7	1811.3	1571.1	1697.3	1156.2	737.5
70°	3045.7	3007.0	2953.8	3050.5	3197.2	2610.5	1824.6	1387.9	1267.8	768.5	443.9
72.5°	2681.8	2663.7	2760.8	3168.0	3779.0	2886.5	1649.3	1010.5	736.3	408.0	256.9
73°	2457.1	2453.1	2618.7	3085.6	3783.2	2844.0	1572.5	939.2	631.5	360.9	234.8
75°	1109.5	1141.5	1504.4	2356.8	3286.9	2343.5	1106.8	538.8	356.7	249.3	177.3
77.5°	266.6	277.7	470.7	1119.3	2075.7	1396.6	501.5	266.4	228.1	176.1	129.4
80°	113.6	117.3	181.2	413.5	977.3	562.4	231.1	178.5	157.8	122.9	90.7
82.5°	63.1	67.1	102.8	187.6	394.5	191.8	140.9	124.3	103.8	74.0	59.0
85°	35.7	37.9	60.2	104.8	167.2	77.0	84.4	82.6	58.6	38.1	29.0
87.5°	16.9	18.3	29.0	48.6	65.5	30.2	42.9	47.2	36.7	23.2	15.1
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°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
2.5°	623.6	627.1	631.3	633.5	635.5	637.8	640.2	640.2	640.6	640.8
5°	619.2	626.5	633.1	635.9	636.5	636.5	635.9	632.7	629.9	631.1
7.5°	610.1	620.8	626.3	625.3	617.8	609.1	601.7	592.8	588.2	587.4
10°	597.0	609.3	610.3	600.3	581.7	563.0	547.5	532.4	525.3	523.5
12.5°	582.5	593.8	587.4	567.0	537.0	509.8	490.1	474.9	468.1	466.3
15°	570.7	578.5	562.4	530.2	492.5	463.7	447.5	436.1	431.4	430.0
17.5°	564.6	566.2	536.8	493.3	453.2	429.2	419.1	413.7	411.9	410.9
20°	567.6	556.5	512.4	459.0	421.1	404.2	401.8	400.4	400.0	399.4
22.5°	582.5	553.5	489.9	426.4	392.9	385.5	387.5	387.3	386.9	386.5
25°	609.1	556.1	468.1	395.5	369.2	367.7	371.2	371.2	369.6	369.6
27.5°	644.2	561.4	443.7	366.1	347.8	348.0	350.8	350.0	348.2	347.0
30°	687.1	564.8	415.1	339.7	327.8	327.0	327.8	324.4	319.0	318.6
32.5°	731.0	560.6	382.0	316.2	306.5	304.7	304.1	299.4	293.2	291.4
35°	770.7	545.3	348.2	297.6	286.3	282.3	285.1	283.5	277.9	276.5
37.5°	799.6	516.9	317.8	281.1	271.8	270.8	272.6	273.2	266.6	265.2
40°	819.1	478.4	291.8	267.2	269.0	265.2	259.3	255.1	253.1	252.5
42.5°	834.8	438.3	270.0	260.7	269.6	258.7	245.8	239.0	242.6	244.2
45°	852.8	399.2	251.7	252.5	266.6	251.1	236.4	229.9	231.3	231.7
47.5°	877.7	351.6	232.1	239.4	256.7	246.0	230.7	221.4	214.8	211.8
50°	912.0	295.2	211.6	224.7	247.0	242.2	221.7	211.8	199.7	196.9
52.5°	935.8	242.6	194.7	212.4	238.2	234.7	214.6	201.7	189.0	186.6
55°	922.9	201.5	180.1	198.7	226.7	225.3	208.6	191.4	181.4	179.5
57.5°	858.4	175.5	168.7	185.8	212.6	217.4	200.7	182.6	175.5	174.1
60°	735.3	159.2	161.6	177.1	201.1	209.4	192.8	177.9	173.1	172.1
62.5°	570.5	148.3	156.2	170.7	192.2	203.9	188.4	177.3	175.5	174.3
65°	408.8	139.6	150.5	164.4	184.0	198.7	186.8	176.5	176.9	175.9
67.5°	277.7	131.8	143.5	157.2	176.1	194.2	184.6	173.7	178.7	177.5
70°	194.4	124.3	135.4	148.1	166.2	187.8	180.7	169.5	169.1	164.4
72.5°	151.7	114.3	124.3	135.4	153.5	178.9	172.7	160.2	153.7	148.7
73°	144.7	112.0	121.5	132.6	150.7	176.7	170.5	157.6	150.3	145.7
75°	119.7	101.6	110.4	120.3	138.8	166.4	159.8	145.9	136.6	133.8
77.5°	94.1	87.0	95.3	104.2	122.3	151.3	143.9	130.6	125.5	123.1
80°	69.7	72.1	79.4	87.3	106.0	135.2	128.6	115.3	138.4	132.6
82.5°	49.0	54.6	61.3	68.5	88.9	119.5	111.6	97.9	101.2	84.2
85°	29.0	35.7	42.1	48.2	64.1	99.1	92.1	78.0	63.9	60.9
87.5°	16.9	19.9	21.6	28.0	44.1	74.6	64.9	57.8	33.2	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)