

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: P192309

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192309
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 4131 lumens
Efficiency: N/A
Efficacy: 121.5 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 (A_{in}): 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

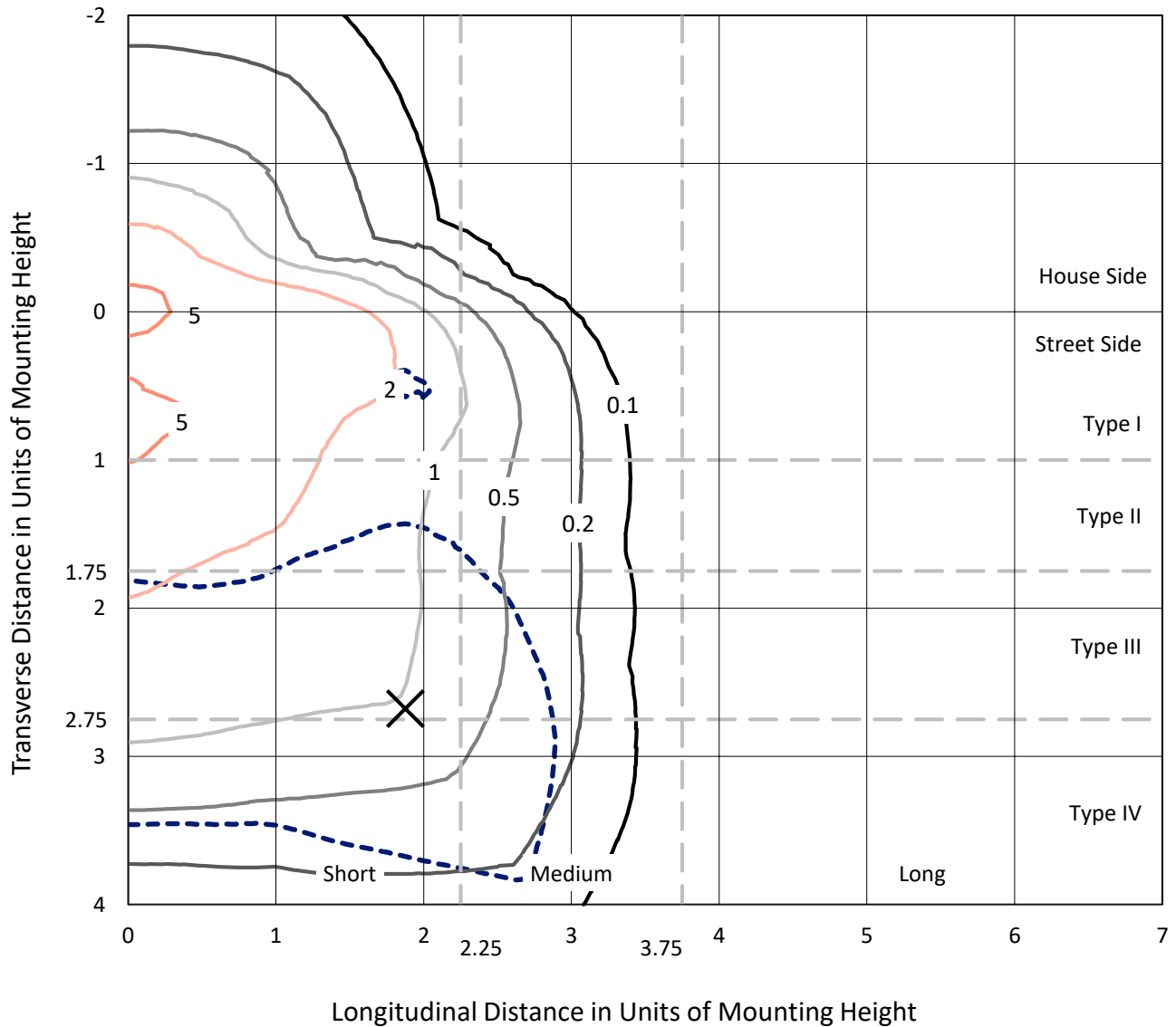


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

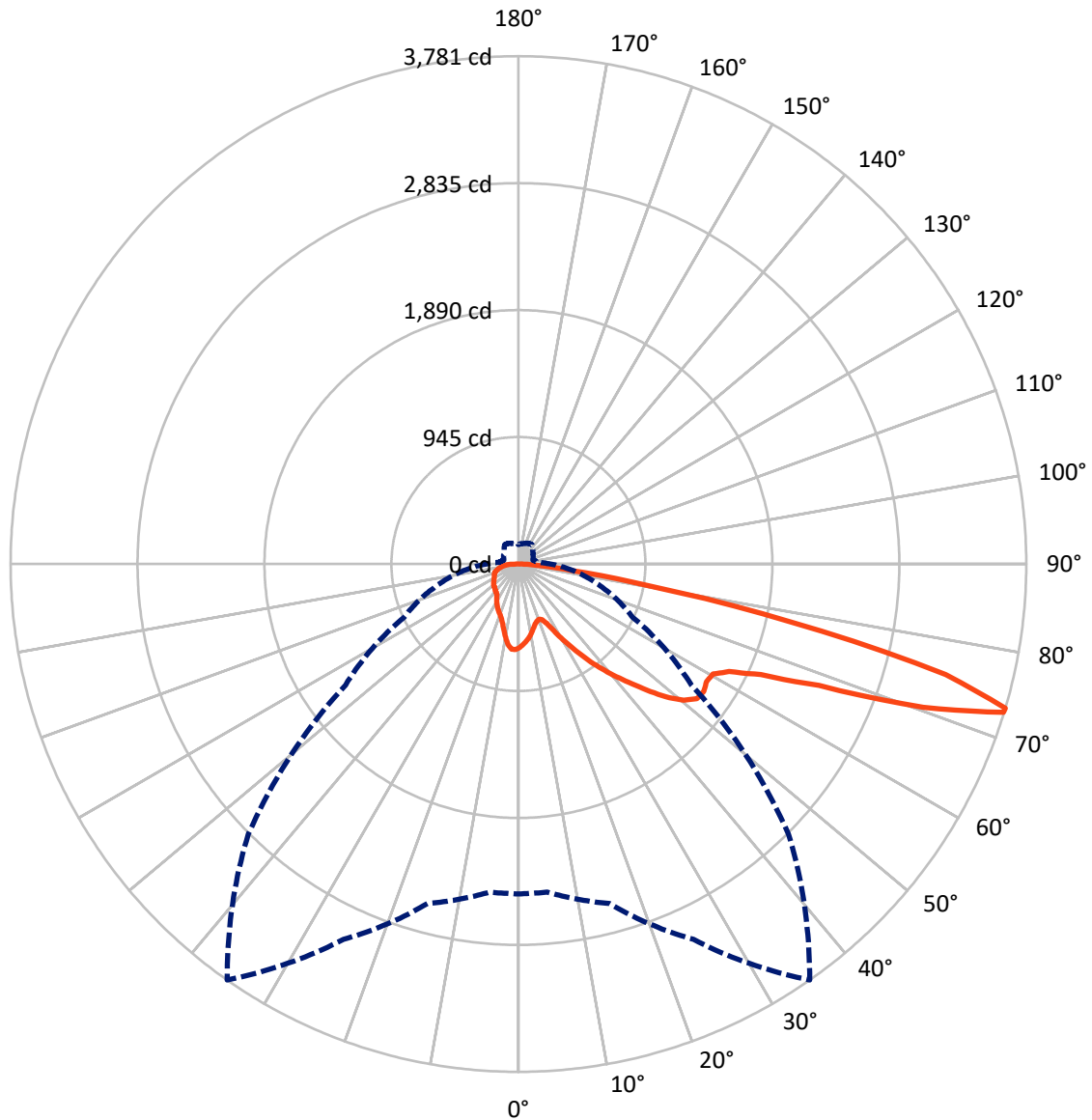


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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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	787.9	0.0	787.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3343.1	0.0	3343.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	4131.0	0.0	4131.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.4
10°-20°	140.9	3.4
20°-30°	227.7	5.5
30°-40°	381.9	9.2
40°-50°	588.7	14.3
50°-60°	789.8	19.1
60°-70°	1052.1	25.5
70°-80°	802.5	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°	4131.0	100.0
0°-180°	4131.0	100.0



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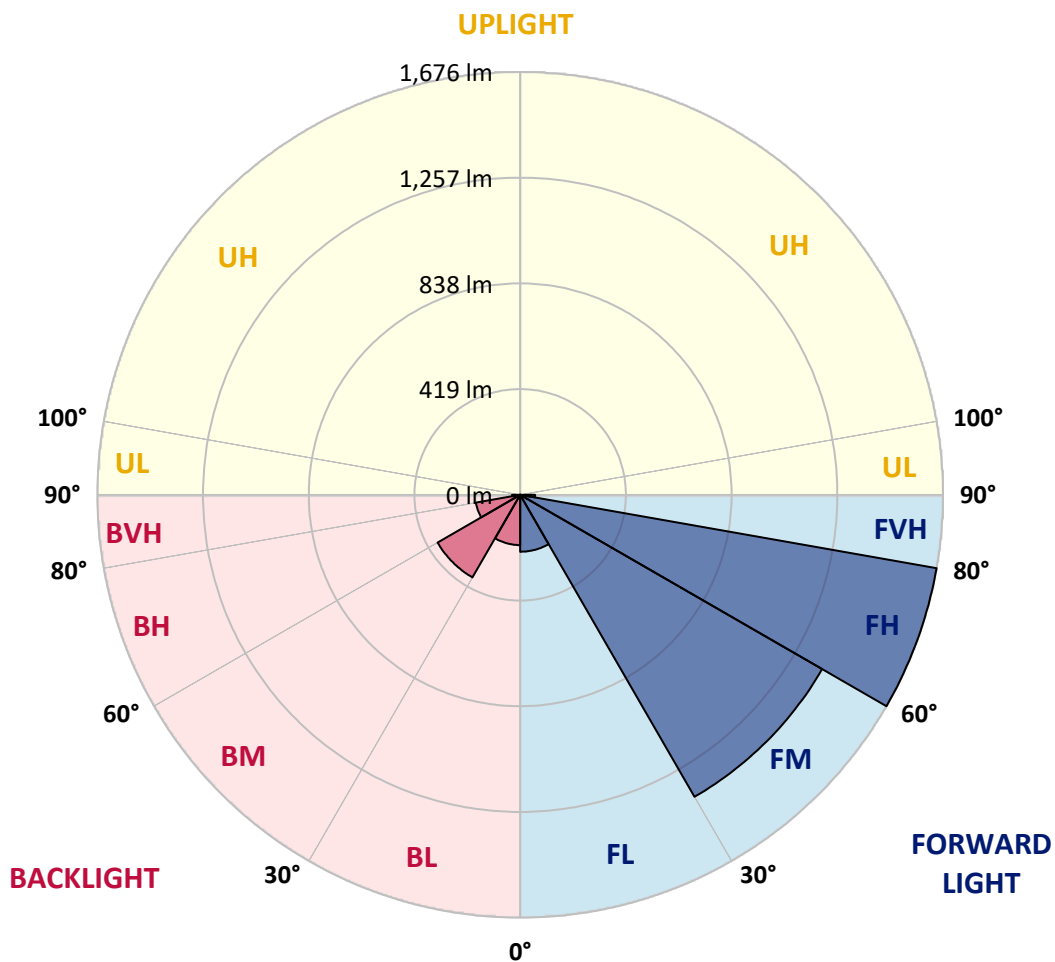
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.7	5.5			
FM	(30°-60°)	1382.3	33.5			
FH	(60°-80°)	1676.4	40.6			G1/1800
FVH	(80°-90°)	58.8	1.4			G1/100
BL	(0°-30°)	199.4	4.8	B1/500		
BM	(30°-60°)	378.1	9.2	B1/1000		
BH	(60°-80°)	178.3	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°	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
2.5°	598.9	600.1	598.7	600.5	603.5	606.6	608.8	612.0	615.6	620.5	621.7
5°	570.7	572.5	572.5	575.7	581.4	586.6	591.4	596.5	604.1	612.6	616.0
7.5°	539.8	540.8	542.6	547.3	555.7	563.0	569.7	578.1	588.4	599.7	605.6
10°	502.5	503.9	506.7	513.4	524.7	534.8	544.5	556.0	569.1	583.2	590.8
12.5°	476.1	475.7	476.9	481.9	491.8	504.1	518.2	532.8	548.9	565.4	574.5
15°	467.2	465.0	460.4	459.2	464.6	476.9	493.2	511.2	530.5	550.3	561.6
17.5°	472.7	469.0	456.5	447.3	446.5	455.9	473.1	493.4	515.6	539.8	553.9
20°	507.6	498.7	468.0	446.7	439.4	444.0	459.0	480.5	506.7	538.8	556.8
22.5°	591.2	578.1	512.8	473.3	448.5	443.0	454.3	477.1	507.6	551.1	574.1
25°	712.8	694.1	589.8	539.6	488.4	458.8	461.4	484.8	521.7	579.7	607.4
27.5°	808.8	796.7	690.3	633.0	561.0	501.7	484.6	504.3	550.5	626.5	654.8
30°	865.9	858.6	797.9	739.0	653.6	569.9	529.1	540.8	595.5	691.3	714.7
32.5°	932.2	927.8	898.0	843.9	753.6	659.6	599.5	595.3	655.8	769.3	780.0
35°	1000.8	999.4	982.0	943.1	861.0	777.8	692.9	664.8	721.5	850.2	843.5
37.5°	1064.7	1062.3	1052.2	1029.6	973.2	904.8	788.1	736.0	792.3	927.6	897.7
40°	1182.3	1163.7	1129.0	1111.9	1086.7	1011.7	863.7	802.4	865.7	1001.4	944.5
42.5°	1325.7	1295.4	1230.7	1207.3	1203.7	1096.0	915.3	866.9	939.7	1074.6	990.5
45°	1438.6	1410.1	1354.3	1324.8	1337.8	1172.4	967.1	935.7	1015.9	1151.4	1037.9
47.5°	1559.0	1514.2	1440.4	1449.3	1477.9	1244.6	1019.9	1009.7	1099.4	1237.3	1096.8
50°	1563.4	1529.1	1496.7	1550.1	1594.5	1311.1	1085.9	1087.3	1201.6	1345.4	1175.2
52.5°	1472.7	1465.4	1516.8	1600.7	1664.8	1363.6	1161.1	1167.4	1332.3	1469.6	1261.3
55°	1441.0	1432.7	1492.0	1583.0	1674.3	1407.1	1242.6	1254.1	1490.4	1600.5	1345.2
57.5°	1518.4	1499.9	1503.9	1574.7	1651.1	1454.7	1331.5	1354.7	1662.2	1715.0	1399.1
60°	1734.6	1695.1	1620.1	1618.4	1663.6	1526.1	1434.3	1462.6	1840.7	1769.7	1378.1
62.5°	2037.9	1998.4	1858.0	1766.5	1759.8	1643.9	1560.4	1568.0	1943.9	1695.5	1249.8
65°	2366.2	2330.9	2174.0	2044.9	1982.6	1839.1	1707.0	1615.0	1910.2	1491.4	1025.2
67.5°	2764.8	2726.9	2592.0	2472.8	2412.8	2154.2	1810.0	1569.9	1696.1	1155.3	737.0
70°	3043.5	3004.8	2951.6	3048.2	3194.8	2608.6	1823.3	1386.8	1266.8	767.9	443.6
72.5°	2679.9	2661.8	2758.8	3165.7	3776.3	2884.4	1648.1	1009.7	735.8	407.7	256.7
73°	2455.3	2451.3	2616.8	3083.4	3780.5	2841.9	1571.3	938.5	631.0	360.6	234.7
75°	1108.7	1140.7	1503.3	2355.1	3284.5	2341.8	1105.9	538.4	356.5	249.2	177.1
77.5°	266.4	277.5	470.3	1118.4	2074.2	1395.6	501.1	266.2	227.9	176.0	129.3
80°	113.5	117.2	181.1	413.2	976.6	562.0	230.9	178.3	157.7	122.8	90.7
82.5°	63.1	67.1	102.8	187.5	394.2	191.6	140.8	124.2	103.8	74.0	58.9
85°	35.7	37.9	60.1	104.7	167.0	77.0	84.3	82.5	58.5	38.1	29.0
87.5°	16.9	18.3	29.0	48.6	65.5	30.2	42.8	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°	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5	623.5
2.5°	623.1	626.7	630.8	633.0	635.0	637.4	639.8	639.8	640.2	640.4
5°	618.7	626.1	632.6	635.4	636.0	636.0	635.4	632.2	629.4	630.6
7.5°	609.6	620.3	625.9	624.9	617.3	608.6	601.3	592.4	587.8	587.0
10°	596.5	608.8	609.8	599.9	581.2	562.6	547.1	532.0	524.9	523.1
12.5°	582.0	593.3	587.0	566.6	536.6	509.4	489.8	474.5	467.8	466.0
15°	570.3	578.1	562.0	529.9	492.2	463.4	447.1	435.8	431.1	429.7
17.5°	564.2	565.8	536.4	493.0	452.9	428.9	418.8	413.4	411.6	410.6
20°	567.2	556.0	512.0	458.6	420.8	403.9	401.5	400.1	399.7	399.1
22.5°	582.0	553.1	489.6	426.1	392.6	385.2	387.2	387.0	386.6	386.2
25°	608.6	555.7	467.8	395.2	369.0	367.4	371.0	371.0	369.4	369.4
27.5°	643.7	561.0	443.4	365.8	347.6	347.8	350.5	349.7	348.0	346.8
30°	686.6	564.4	414.8	339.4	327.5	326.7	327.5	324.1	318.8	318.4
32.5°	730.4	560.2	381.7	316.0	306.3	304.5	303.9	299.2	293.0	291.2
35°	770.1	544.9	348.0	297.4	286.1	282.1	284.9	283.3	277.7	276.3
37.5°	799.1	516.6	317.6	280.9	271.6	270.6	272.4	273.0	266.4	265.0
40°	818.5	478.1	291.6	267.0	268.8	265.0	259.1	254.9	252.9	252.3
42.5°	834.2	438.0	269.8	260.5	269.4	258.5	245.6	238.8	242.4	244.0
45°	852.2	398.9	251.5	252.3	266.4	250.9	236.3	229.7	231.1	231.5
47.5°	877.0	351.3	231.9	239.2	256.5	245.8	230.5	221.2	214.6	211.7
50°	911.3	295.0	211.5	224.6	246.8	242.0	221.6	211.7	199.6	196.8
52.5°	935.1	242.4	194.6	212.3	238.1	234.5	214.4	201.6	188.9	186.5
55°	922.3	201.4	179.9	198.6	226.5	225.2	208.5	191.2	181.3	179.3
57.5°	857.8	175.4	168.6	185.7	212.5	217.2	200.6	182.5	175.4	174.0
60°	734.8	159.1	161.5	177.0	201.0	209.3	192.6	177.7	173.0	172.0
62.5°	570.1	148.2	156.1	170.6	192.0	203.7	188.3	177.1	175.4	174.2
65°	408.5	139.5	150.4	164.3	183.9	198.6	186.7	176.4	176.8	175.8
67.5°	277.5	131.7	143.4	157.1	176.0	194.0	184.5	173.6	178.5	177.3
70°	194.2	124.2	135.3	148.0	166.0	187.7	180.5	169.4	169.0	164.3
72.5°	151.6	114.3	124.2	135.3	153.3	178.7	172.6	160.1	153.5	148.6
73°	144.6	111.9	121.4	132.5	150.6	176.6	170.4	157.5	150.2	145.6
75°	119.6	101.6	110.3	120.2	138.7	166.2	159.7	145.8	136.5	133.7
77.5°	94.0	86.9	95.2	104.1	122.2	151.2	143.8	130.5	125.4	123.0
80°	69.6	72.0	79.4	87.3	105.9	135.1	128.5	115.3	138.3	132.5
82.5°	49.0	54.6	61.3	68.4	88.9	119.4	111.5	97.8	101.2	84.1
85°	29.0	35.7	42.1	48.2	64.1	99.0	92.0	78.0	63.9	60.9
87.5°	16.9	19.8	21.6	28.0	44.0	74.6	64.9	57.7	33.1	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)