

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: STREETWORKS

Report Number: P268234

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268234
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: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 3589.3 lumens
Efficiency: N/A
Efficacy: 105.6 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: 28.75 FT

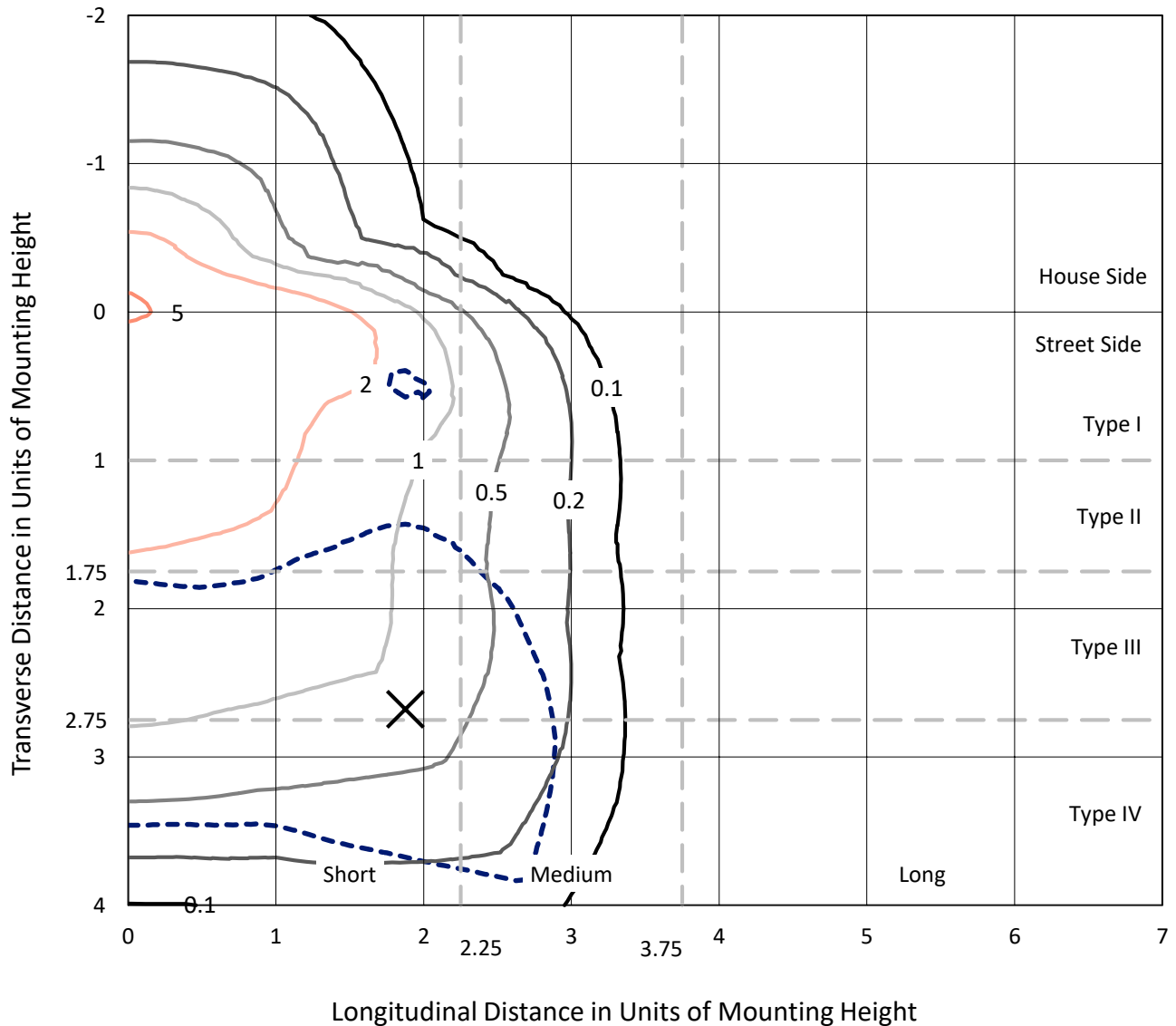


REPORT NUMBER: P268234

CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

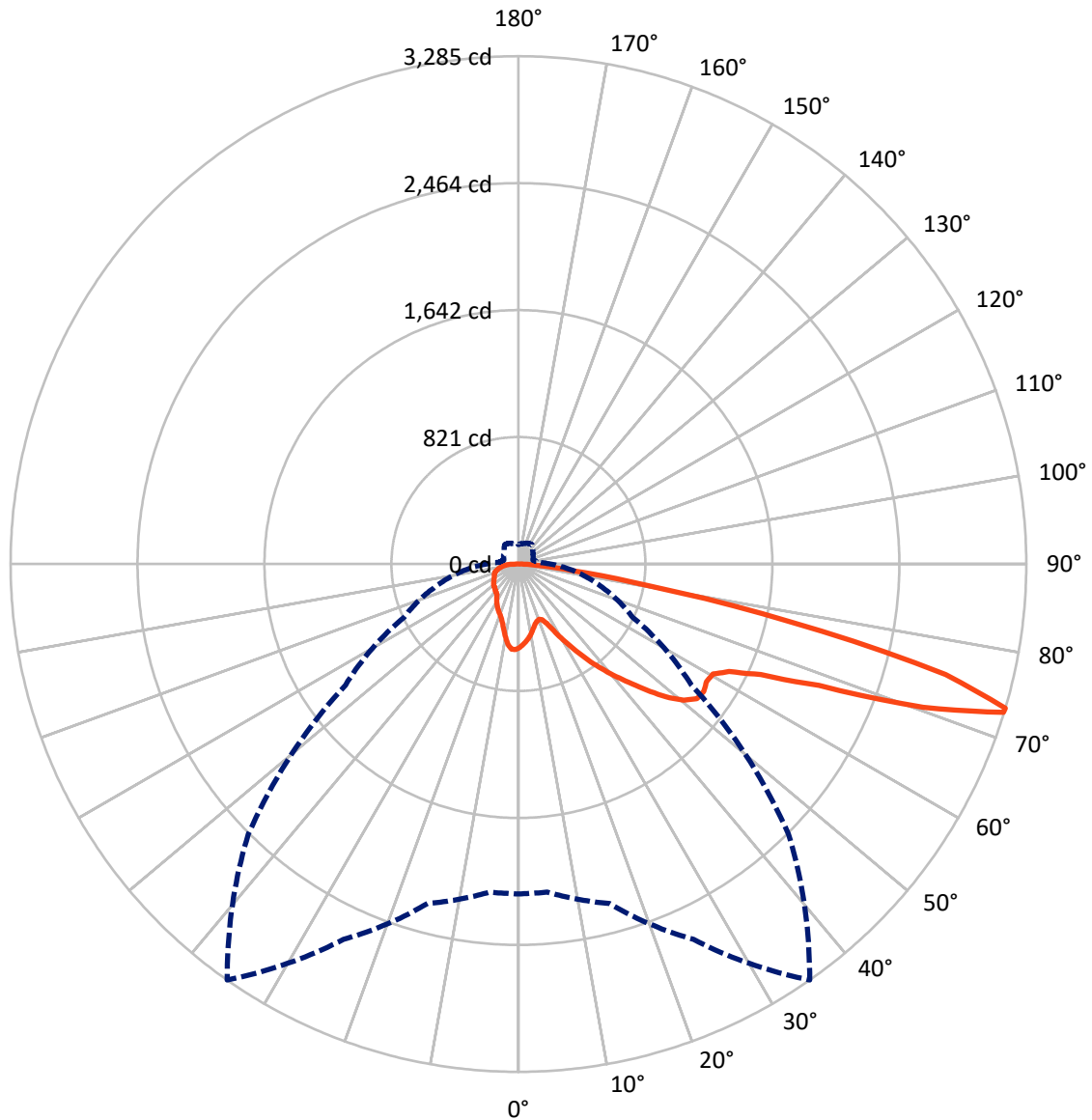


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P268234

CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.6	0.0	684.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	2904.7	0.0	2904.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	3589.3	0.0	3589.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.4
10°-20°	122.4	3.4
20°-30°	197.9	5.5
30°-40°	331.8	9.2
40°-50°	511.5	14.3
50°-60°	686.2	19.1
60°-70°	914.2	25.5
70°-80°	697.2	19.4
80°-90°	79.0	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°	3589.3	100.0
0°-180°	3589.3	100.0



REPORT NUMBER: P268234

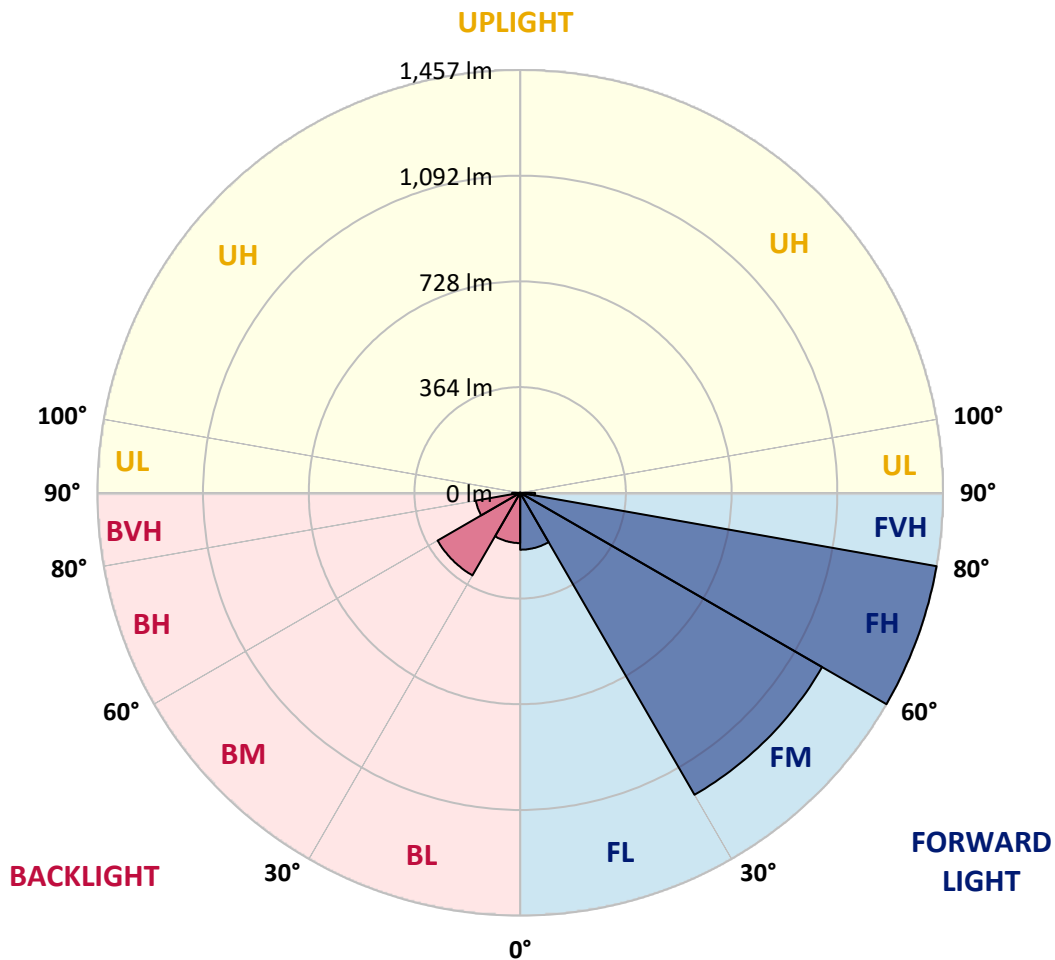
CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.1	5.5			
FM	(30°-60°)	1201.0	33.5			
FH	(60°-80°)	1456.5	40.6			G1/1800
FVH	(80°-90°)	51.1	1.4			G1/100
BL	(0°-30°)	173.2	4.8	B1/500		
BM	(30°-60°)	328.5	9.2	B1/1000		
BH	(60°-80°)	154.9	4.3	B1/500		G1/500
BVH	(80°-90°)	27.9	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





REPORT NUMBER: P268234

CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	520.4	521.3	520.2	521.7	524.3	527.0	529.0	531.7	534.9	539.2	540.2
5°	495.9	497.4	497.4	500.1	505.1	509.7	513.8	518.3	524.8	532.2	535.2
7.5°	468.9	469.9	471.4	475.6	482.7	489.1	495.1	502.2	511.2	521.0	526.1
10°	436.5	437.8	440.2	446.1	455.9	464.8	473.1	483.1	494.4	506.7	513.3
12.5°	413.7	413.3	414.4	418.7	427.2	438.0	450.2	462.9	476.9	491.3	499.2
15°	405.9	404.0	400.0	398.9	403.7	414.4	428.5	444.2	460.9	478.2	488.0
17.5°	410.7	407.6	396.6	388.6	388.0	396.2	411.1	428.8	448.0	468.9	481.2
20°	441.1	433.3	406.7	388.2	381.8	385.7	398.8	417.4	440.2	468.1	483.7
22.5°	513.7	502.2	445.6	411.2	389.8	384.8	394.7	414.6	441.1	478.8	498.7
25°	619.3	603.1	512.5	468.8	424.4	398.7	401.0	421.2	453.4	503.6	527.8
27.5°	702.7	692.2	599.8	550.0	487.4	435.9	421.0	438.2	478.3	544.4	568.9
30°	752.4	746.0	693.2	642.1	567.9	495.1	459.8	469.9	517.5	600.6	621.0
32.5°	809.9	806.0	780.3	733.2	654.9	573.1	520.8	517.2	569.9	668.3	677.7
35°	869.6	868.3	853.2	819.4	748.1	675.9	602.0	577.6	626.8	738.8	732.8
37.5°	925.1	923.0	914.2	894.5	845.7	786.1	736.1	684.8	639.5	688.5	806.0
40°	1027.3	1011.1	980.9	966.0	944.2	879.0	820.8	750.4	697.3	752.2	870.1
42.5°	1151.8	1125.5	1069.3	1049.0	1045.8	952.4	795.3	753.1	816.5	933.7	860.5
45°	1250.0	1225.2	1176.7	1151.1	1162.3	1018.7	840.3	813.1	882.7	1000.4	901.8
47.5°	1354.6	1315.7	1251.5	1259.2	1284.0	1081.4	886.1	877.4	955.3	1075.0	953.0
50°	1358.3	1328.6	1300.4	1346.7	1385.5	1139.1	943.5	944.7	1044.0	1169.0	1021.1
52.5°	1279.6	1273.3	1317.9	1390.8	1446.5	1184.9	1008.8	1014.4	1157.6	1276.9	1095.9
55°	1252.1	1244.8	1296.3	1375.5	1454.7	1222.6	1079.7	1089.6	1294.9	1390.7	1168.8
57.5°	1319.3	1303.3	1306.7	1368.2	1434.6	1263.9	1156.8	1177.0	1444.2	1490.1	1215.6
60°	1507.1	1472.9	1407.6	1406.1	1445.5	1326.0	1246.2	1270.8	1599.3	1537.7	1197.4
62.5°	1770.6	1736.3	1614.3	1534.8	1529.1	1428.3	1355.8	1362.4	1689.0	1473.2	1086.0
65°	2056.0	2025.3	1889.0	1776.7	1722.6	1597.9	1483.2	1403.2	1659.7	1295.8	890.8
67.5°	2402.2	2369.3	2252.1	2148.4	2096.5	1871.7	1572.7	1364.0	1473.7	1003.9	640.3
70°	2644.4	2610.7	2564.7	2648.6	2775.9	2266.6	1584.3	1204.9	1100.8	667.3	385.5
72.5°	2328.4	2312.7	2397.0	2750.5	3281.1	2506.1	1432.0	877.4	639.4	354.2	223.0
73°	2133.4	2129.9	2273.6	2679.0	3284.7	2469.3	1365.2	815.4	548.2	313.4	203.9
75°	963.3	991.1	1306.1	2046.2	2853.7	2034.8	960.8	467.7	309.7	216.5	153.9
77.5°	231.5	241.1	408.6	971.7	1802.2	1212.5	435.4	231.4	198.0	152.9	112.4
80°	98.6	101.9	157.4	359.1	848.4	488.3	200.6	155.0	137.0	106.7	78.8
82.5°	54.7	58.3	89.3	163.0	342.4	166.5	122.3	107.8	90.1	64.3	51.3
85°	31.0	32.9	52.2	91.0	145.2	66.8	73.2	71.8	50.8	33.1	25.2
87.5°	14.6	15.9	25.2	42.2	57.0	26.2	37.2	41.1	31.9	20.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268234

CATALOG NUMBER: GAN-AF-01-LED-U-T4FT-7027-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8	541.8
2.5°	541.4	544.6	548.1	550.0	551.6	553.7	556.0	556.0	556.2	556.4
5°	537.5	544.0	549.7	552.1	552.5	552.5	552.1	549.4	546.9	548.0
7.5°	529.7	539.0	543.8	542.9	536.4	528.8	522.5	514.6	510.6	510.0
10°	518.3	529.0	529.8	521.2	504.9	488.8	475.4	462.3	456.1	454.5
12.5°	505.7	515.5	510.0	492.4	466.2	442.7	425.5	412.3	406.5	404.9
15°	495.5	502.2	488.3	460.4	427.7	402.6	388.4	378.6	374.6	373.3
17.5°	490.1	491.6	466.1	428.3	393.5	372.6	363.9	359.2	357.6	356.7
20°	492.8	483.1	444.9	398.5	365.6	351.0	348.8	347.6	347.4	346.7
22.5°	505.7	480.6	425.3	370.2	341.0	334.7	336.4	336.2	336.0	335.5
25°	528.8	482.7	406.5	343.3	320.5	319.2	322.3	322.3	321.0	321.0
27.5°	559.4	487.4	385.3	317.8	302.0	302.2	304.5	303.8	302.3	301.3
30°	596.6	490.4	360.4	295.0	284.6	283.9	284.6	281.7	276.9	276.7
32.5°	634.7	486.7	331.7	274.6	266.1	264.6	264.0	259.9	254.6	253.1
35°	669.1	473.4	302.3	258.4	248.6	245.1	247.6	246.1	241.4	240.0
37.5°	694.3	448.9	276.0	244.1	236.0	235.0	236.7	237.2	231.5	230.2
40°	711.2	415.3	253.4	232.0	233.6	230.2	225.1	221.5	219.7	219.2
42.5°	724.8	380.6	234.4	226.4	234.1	224.5	213.3	207.5	210.7	212.0
45°	740.5	346.7	218.6	219.2	231.5	218.1	205.4	199.7	200.9	201.1
47.5°	762.0	305.2	201.5	207.9	222.9	213.5	200.3	192.1	186.5	184.0
50°	791.9	256.2	183.8	195.1	214.4	210.3	192.5	184.0	173.5	170.9
52.5°	812.4	210.7	169.2	184.4	206.8	203.7	186.3	175.1	164.1	162.1
55°	801.3	174.9	156.3	172.6	196.9	195.7	181.2	166.1	157.6	155.9
57.5°	745.4	152.4	146.6	161.3	184.6	188.7	174.2	158.6	152.4	151.2
60°	638.4	138.2	140.2	153.7	174.6	181.8	167.4	154.5	150.2	149.5
62.5°	495.3	128.7	135.6	148.2	166.8	177.1	163.6	153.9	152.4	151.4
65°	354.9	121.2	130.7	142.7	159.8	172.6	162.2	153.3	153.6	152.7
67.5°	241.1	114.4	124.7	136.5	152.9	168.6	160.3	150.8	155.1	154.1
70°	168.7	107.8	117.6	128.5	144.3	163.0	156.8	147.2	146.9	142.7
72.5°	131.7	99.4	107.8	117.6	133.2	155.2	149.9	139.1	133.4	129.0
73°	125.7	97.1	105.6	115.2	130.9	153.4	148.1	136.8	130.4	126.5
75°	103.9	88.3	95.8	104.5	120.6	144.4	138.8	126.8	118.5	116.2
77.5°	81.7	75.5	82.7	90.5	106.2	131.3	125.0	113.5	109.0	106.9
80°	60.5	62.5	68.9	75.8	92.0	117.4	111.7	100.2	120.2	115.2
82.5°	42.6	47.4	53.3	59.5	77.3	103.8	96.8	85.0	87.9	73.1
85°	25.2	31.0	36.6	42.0	55.7	86.0	79.9	67.7	55.4	52.9
87.5°	14.6	17.2	18.8	24.3	38.3	64.8	56.4	50.1	28.7	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)