

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: P191549

Luminaire Tested: **GAN-AF-01-LED-U-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4170.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

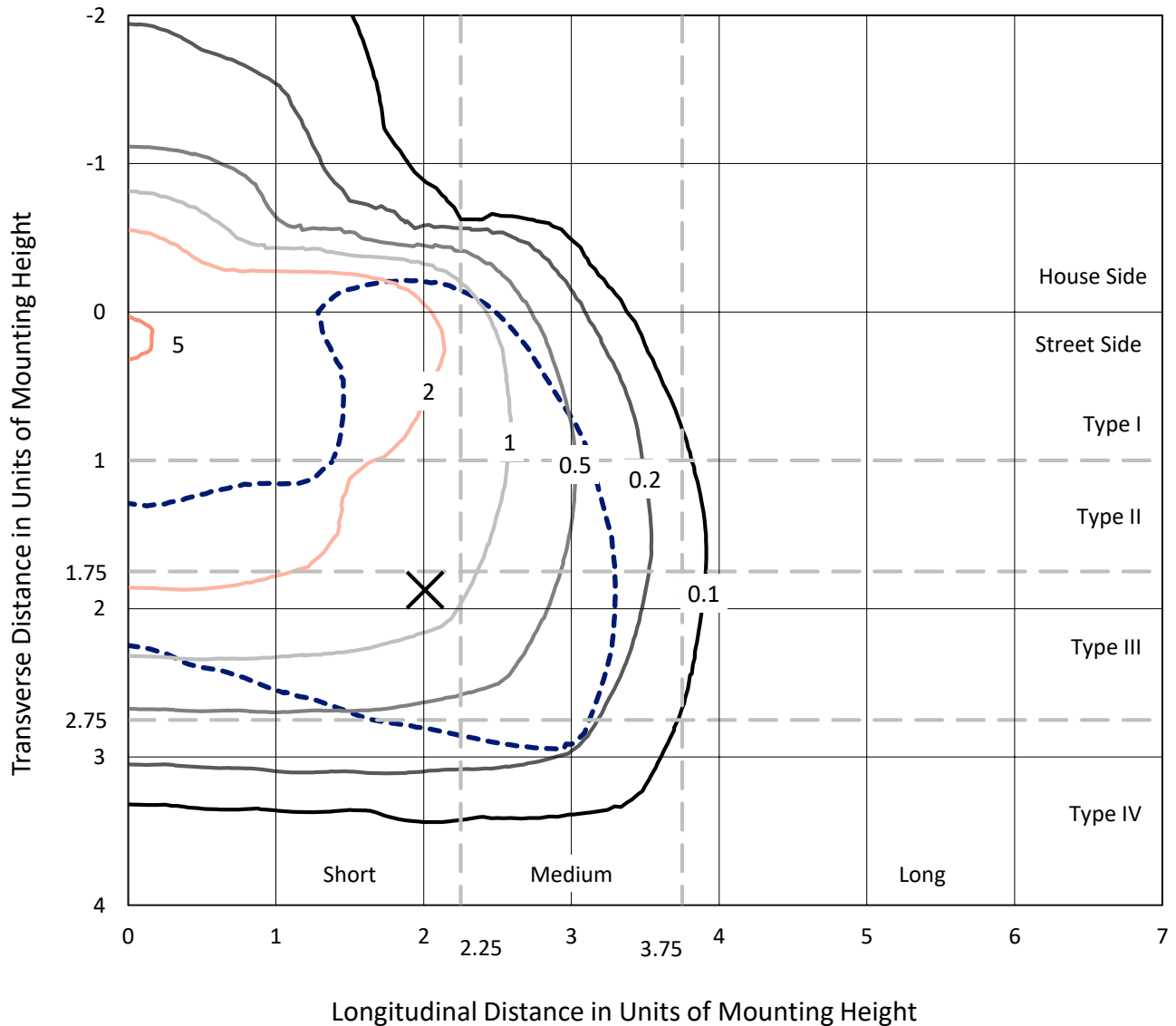
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

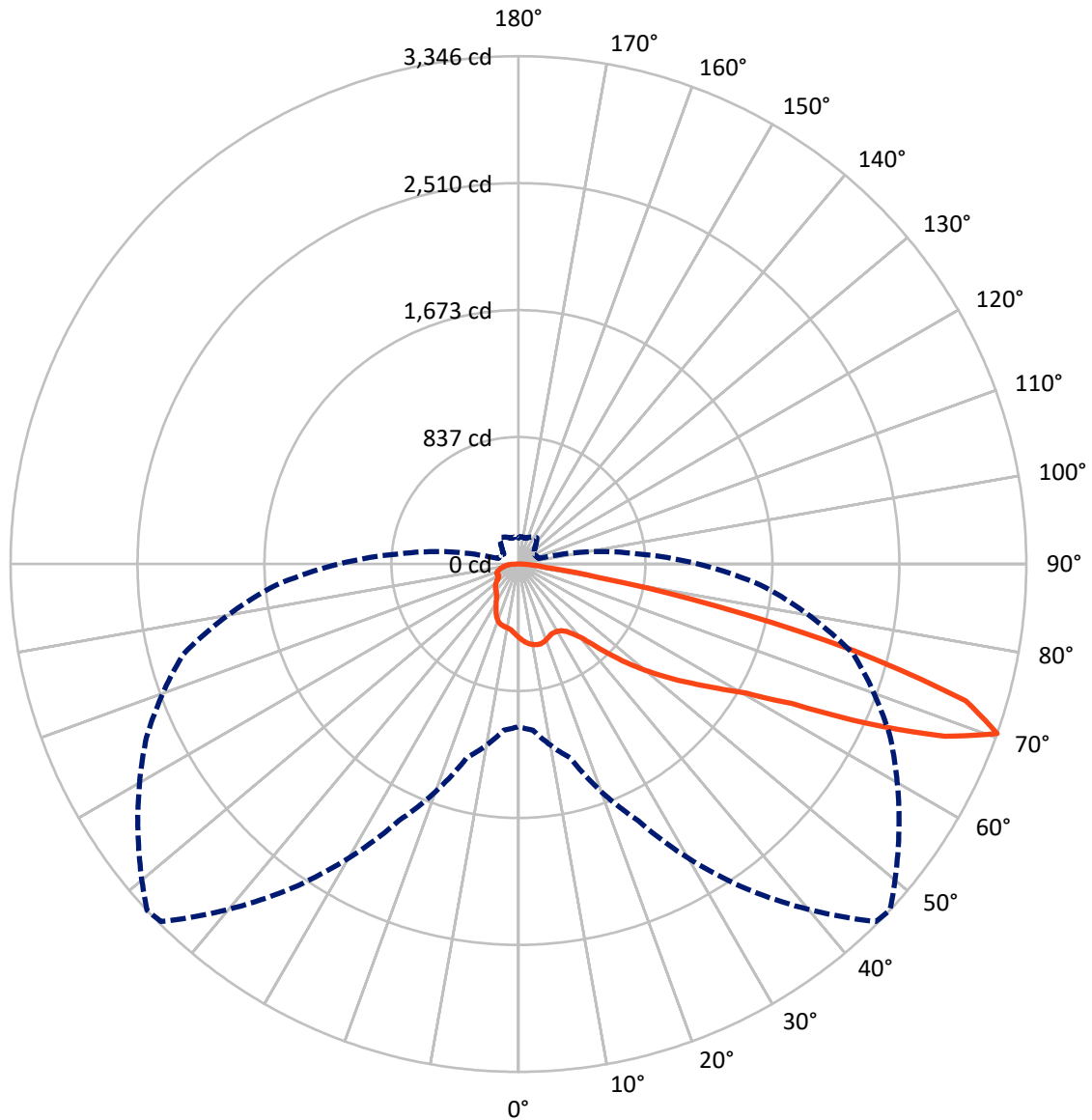
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.1	0.0	870.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3300.5	0.0	3300.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	4170.6	0.0	4170.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.1
10°-20°	136.0	3.3
20°-30°	200.9	4.8
30°-40°	292.0	7.0
40°-50°	525.4	12.6
50°-60°	910.3	21.8
60°-70°	1299.2	31.2
70°-80°	667.0	16.0
80°-90°	93.4	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°	4170.6	100.0
0°-180°	4170.6	100.0



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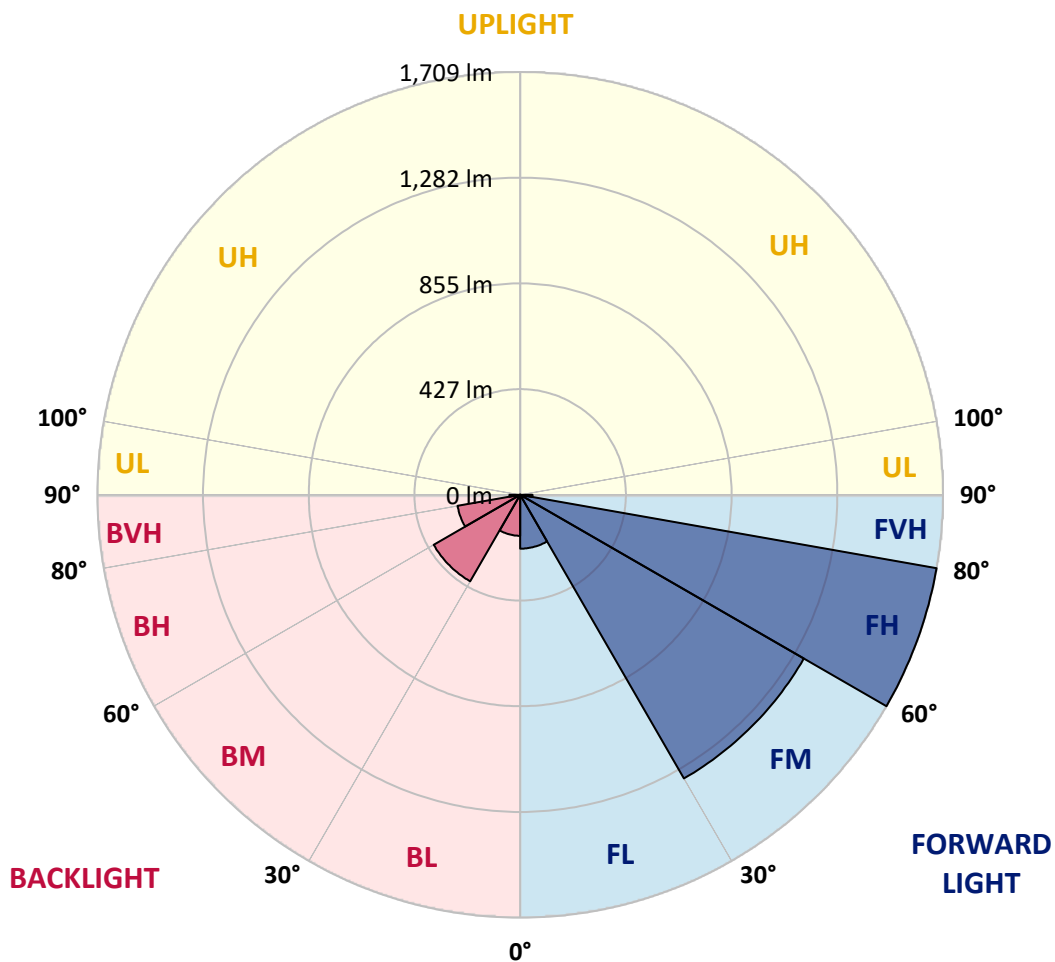
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.6	5.2			
FM	(30°-60°)	1323.9	31.7			
FH	(60°-80°)	1709.2	41.0			G1/1800
FVH	(80°-90°)	49.8	1.2			G1/100
BL	(0°-30°)	165.7	4.0	B1/500		
BM	(30°-60°)	403.9	9.7	B1/1000		
BH	(60°-80°)	257.0	6.2	B1/500		G1/500
BVH	(80°-90°)	43.6	1.0			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°	47°	55°	65°	75°	85°
0°	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0
2.5°	512.3	511.3	510.9	510.0	509.1	504.0	503.0	499.3	494.3	489.0	483.5
5°	546.1	545.8	543.6	539.5	533.1	521.8	519.2	510.2	498.3	486.7	475.2
7.5°	575.6	573.8	569.6	561.4	550.0	534.8	531.2	518.8	502.4	486.5	471.0
10°	597.3	596.3	587.0	575.8	561.0	544.2	539.9	526.1	508.1	487.9	468.5
12.5°	609.7	607.7	596.9	583.5	565.9	549.4	545.2	531.2	510.9	487.9	465.0
15°	608.9	607.5	596.7	582.2	564.3	549.8	546.1	532.0	510.2	485.9	460.5
17.5°	592.7	593.3	584.1	569.8	555.2	544.2	540.7	527.7	506.3	481.9	455.3
20°	564.3	567.1	561.0	548.2	540.1	532.7	530.4	519.5	499.9	476.0	449.6
22.5°	535.8	538.5	536.0	525.3	524.1	519.7	518.4	510.5	494.5	472.4	446.2
25°	515.0	517.4	517.0	507.7	511.3	511.1	510.0	506.3	493.3	472.4	446.8
27.5°	509.3	510.0	509.3	500.7	505.8	509.8	509.1	508.5	496.9	478.2	454.5
30°	528.8	527.5	521.3	504.0	508.7	514.3	513.5	513.9	507.9	493.7	471.8
32.5°	606.5	601.0	581.1	532.7	520.3	523.2	523.6	530.4	531.4	517.4	498.5
35°	722.7	716.7	690.9	609.3	556.2	545.6	545.6	555.8	561.8	551.5	540.1
37.5°	845.9	839.2	825.4	715.7	631.7	584.3	583.3	590.4	599.1	601.6	604.5
40°	985.9	978.8	982.6	834.9	736.9	651.5	637.1	632.1	655.6	671.2	693.9
42.5°	1139.1	1135.8	1137.2	967.8	856.8	752.0	731.4	705.3	733.7	761.5	809.2
45°	1280.9	1283.7	1282.4	1110.1	990.3	874.5	852.8	802.1	829.8	877.6	955.2
47.5°	1405.1	1393.4	1411.6	1265.5	1139.9	1011.7	984.9	916.9	945.1	1003.9	1135.5
50°	1555.8	1554.2	1527.5	1472.8	1320.6	1149.4	1114.3	1035.6	1079.4	1161.2	1362.5
52.5°	1714.3	1684.9	1660.4	1634.2	1512.4	1290.7	1247.6	1153.9	1237.3	1340.2	1639.2
55°	1746.8	1733.6	1764.0	1808.1	1697.3	1437.3	1387.2	1302.2	1415.0	1544.7	1958.4
57.5°	1816.1	1815.9	1878.9	1957.4	1887.5	1592.9	1542.4	1481.3	1614.8	1779.0	2297.2
60°	1863.0	1876.2	1993.1	2145.4	2074.4	1772.8	1726.2	1688.2	1842.1	2041.0	2612.9
62.5°	1887.5	1905.5	2064.9	2221.7	2338.7	2072.0	2025.5	1970.6	2142.8	2328.2	2797.6
65°	1785.6	1820.6	2053.8	2287.7	2570.0	2557.2	2536.2	2439.6	2518.8	2555.3	2730.9
67.5°	1503.1	1539.0	1810.5	2226.2	2735.1	3025.1	3029.5	2864.6	2750.1	2574.8	2296.0
70°	1070.9	1099.1	1323.7	1866.5	2609.2	3330.8	3346.0	3060.4	2704.1	2283.4	1604.1
72.5°	508.5	525.7	738.4	1214.8	2070.6	3051.8	3081.2	2810.4	2299.3	1690.5	875.1
75°	186.9	192.1	249.6	516.8	1200.9	2250.6	2285.3	2014.6	1524.2	841.6	333.4
77.5°	112.0	115.5	140.0	218.1	472.4	1286.4	1337.7	1095.7	666.1	313.2	164.0
80°	78.4	80.7	100.5	135.7	223.2	490.2	535.8	447.2	265.4	198.2	119.3
82.5°	53.0	54.2	70.6	91.8	148.3	175.1	188.9	198.9	178.9	147.5	75.7
85°	34.7	35.9	47.9	60.5	94.3	90.5	92.5	117.0	130.6	100.2	42.0
87.5°	19.8	20.7	28.8	32.2	46.2	38.4	38.8	61.7	83.6	67.5	25.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0
2.5°	482.1	479.5	473.5	469.9	466.5	465.6	464.2	464.0	463.8	463.8	463.2
5°	471.4	466.9	457.8	452.7	448.4	448.1	447.8	448.8	449.2	449.6	449.0
7.5°	464.4	458.4	447.0	439.7	434.7	433.4	435.5	440.1	443.1	444.4	443.8
10°	460.2	452.7	439.5	431.6	427.3	426.7	429.3	434.9	441.1	443.6	443.3
12.5°	455.3	446.8	432.8	424.4	422.1	423.3	426.7	431.8	438.2	442.1	442.3
15°	450.4	440.5	426.1	418.8	417.8	419.4	422.7	426.5	431.6	435.5	435.9
17.5°	444.6	434.2	419.8	412.2	411.4	412.2	412.5	414.5	417.8	421.5	422.5
20°	438.2	427.7	412.7	405.2	401.5	398.3	394.7	395.1	396.1	399.7	400.5
22.5°	433.8	423.3	407.2	396.9	387.1	377.4	370.1	369.1	369.5	372.6	373.6
25°	434.2	423.1	405.8	387.9	366.6	351.0	341.3	339.6	339.4	341.7	343.1
27.5°	442.1	431.0	411.1	378.8	344.3	321.2	310.9	309.6	308.0	308.6	310.3
30°	459.8	449.4	423.8	369.5	320.2	292.0	281.2	280.0	277.7	276.7	277.9
32.5°	488.6	480.1	442.5	360.6	296.0	267.0	256.0	253.4	252.0	250.8	251.7
35°	536.4	532.9	467.5	350.8	274.8	247.8	237.8	233.7	231.7	233.9	235.6
37.5°	611.5	613.6	500.1	335.6	258.3	235.0	226.7	222.0	218.9	220.8	222.6
40°	717.9	719.2	536.2	314.0	244.1	227.4	218.5	214.3	210.0	206.7	206.5
42.5°	857.4	843.0	571.7	290.7	227.6	222.8	212.9	207.6	201.1	192.1	190.4
45°	1023.1	972.5	598.7	264.0	209.2	217.1	206.5	199.3	189.1	179.3	178.3
47.5°	1213.7	1111.4	611.9	236.2	191.9	208.8	198.9	187.3	174.5	169.6	169.0
50°	1446.7	1276.4	618.3	209.2	177.0	197.8	187.7	174.1	163.4	162.3	161.7
52.5°	1711.9	1474.9	620.2	187.1	164.6	183.6	178.5	165.4	156.8	157.6	157.6
55°	1989.4	1679.8	592.7	171.0	153.2	169.0	172.5	161.9	154.8	158.0	159.3
57.5°	2244.3	1861.4	505.8	158.7	142.4	157.8	170.2	165.2	160.3	173.5	174.3
60°	2439.8	1968.8	377.8	147.5	134.5	154.0	176.2	177.6	178.7	210.2	214.5
62.5°	2480.9	1933.1	259.7	138.8	130.8	157.2	186.9	187.1	185.7	207.6	210.2
65°	2292.7	1707.2	188.9	133.9	127.9	163.2	196.0	191.7	182.4	199.1	194.2
67.5°	1820.9	1286.2	157.2	130.2	123.4	162.8	205.7	196.0	180.6	195.0	187.1
70°	1181.9	777.7	140.0	127.3	118.0	155.0	211.4	195.6	175.3	181.4	172.1
72.5°	576.6	347.8	128.5	122.8	112.6	144.2	211.2	191.9	169.8	169.4	164.4
75°	225.7	159.3	117.8	116.1	103.3	132.1	205.5	186.7	163.4	156.8	155.0
77.5°	132.1	113.6	104.4	106.1	92.1	119.9	197.2	177.6	154.4	146.7	144.6
80°	96.2	85.0	89.1	91.8	78.8	107.7	186.1	166.3	144.4	148.3	145.5
82.5°	61.7	54.8	72.2	74.9	65.6	95.3	173.9	154.6	130.4	118.5	115.7
85°	31.4	34.7	53.8	57.0	50.5	78.4	159.1	139.0	114.7	98.6	100.2
87.5°	17.7	23.7	34.3	38.4	35.7	60.3	129.0	114.7	93.5	76.1	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)