

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: P301208

Luminaire Tested: **GAA-AF-02-LED-U-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-02-LED-U-T3R-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

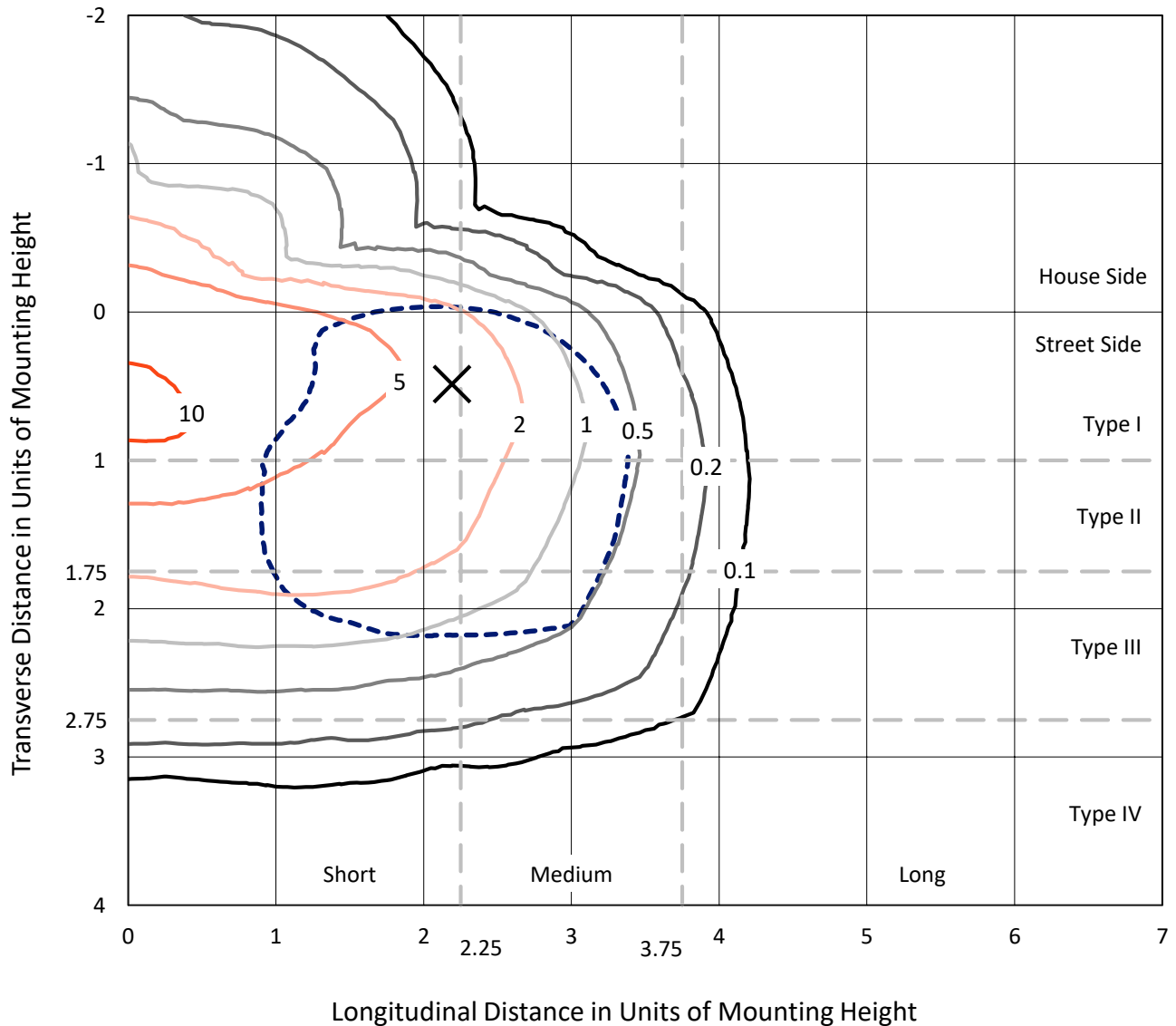
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

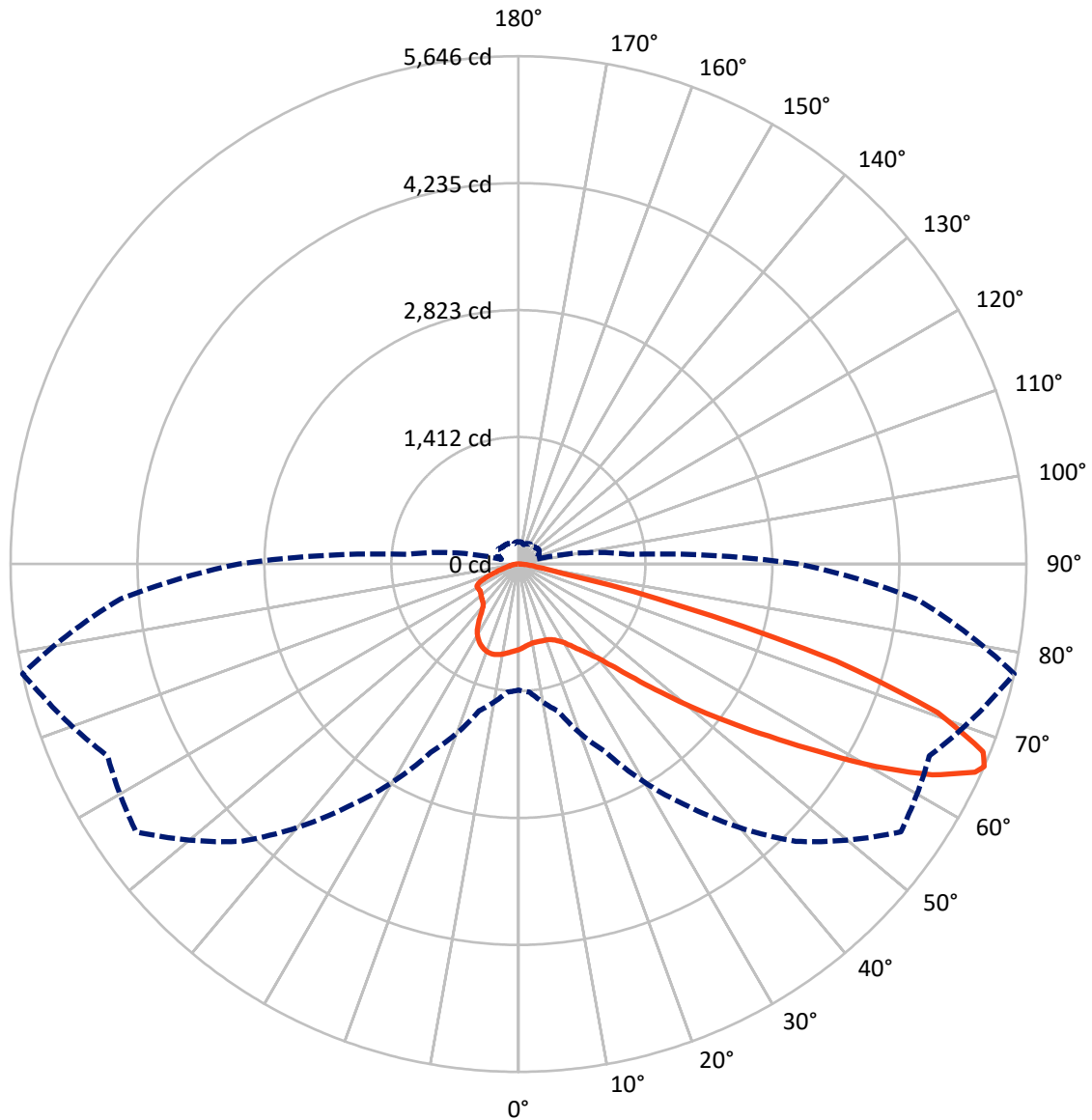
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1139.6	0.0	1139.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5530.9	0.0	5530.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	6670.5	0.0	6670.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.3
10°-20°	239.6	3.6
20°-30°	408.9	6.1
30°-40°	654.6	9.8
40°-50°	1011.2	15.2
50°-60°	1434.3	21.5
60°-70°	1918.7	28.8
70°-80°	833.3	12.5
80°-90°	85.0	1.3
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°	6670.5	100.0
0°-180°	6670.5	100.0

Coefficient of Utilization



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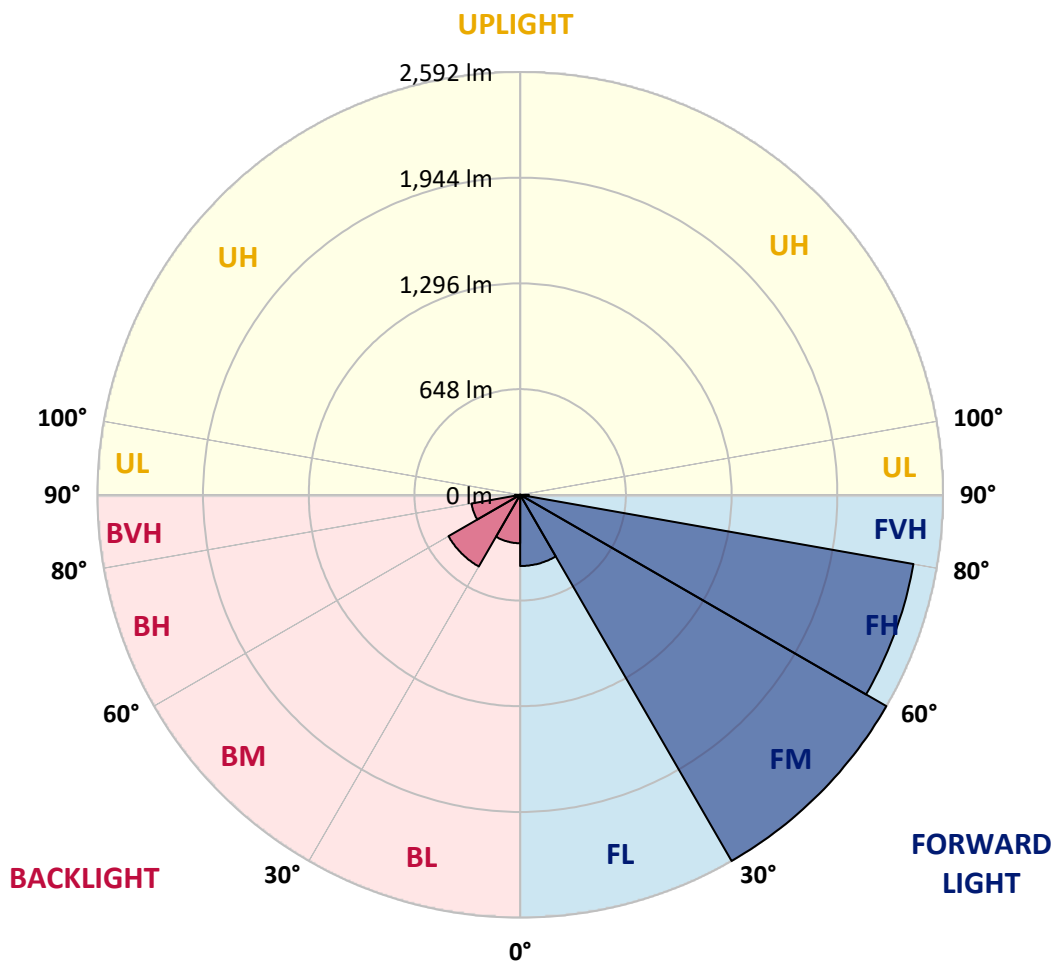
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.6	6.5			
FM	(30°-60°)	2592.5	38.9			
FH	(60°-80°)	2448.5	36.7			G2/5000
FVH	(80°-90°)	53.3	0.8			G1/100
BL	(0°-30°)	296.8	4.4	B1/500		
BM	(30°-60°)	507.6	7.6	B1/1000		
BH	(60°-80°)	303.5	4.5	B1/500		G1/500
BVH	(80°-90°)	31.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6
2.5°	840.9	846.5	851.3	855.7	864.5	879.0	895.7	909.2	928.8	932.6	943.0
5°	763.7	763.7	767.4	774.1	786.0	807.8	830.5	860.8	903.3	913.3	941.1
7.5°	726.2	726.5	728.7	734.3	744.7	764.6	789.5	825.2	882.8	899.5	946.7
10°	740.0	736.9	732.1	729.4	730.9	742.5	766.2	805.9	870.2	891.6	959.4
12.5°	817.5	811.6	795.2	773.4	752.6	744.2	758.0	796.7	864.9	889.8	976.1
15°	944.3	941.8	911.2	866.1	815.7	773.4	764.0	793.3	865.4	892.0	996.0
17.5°	1103.2	1099.6	1059.4	993.8	911.5	829.3	785.1	796.2	867.6	895.7	1015.2
20°	1263.6	1252.8	1209.4	1131.2	1025.6	905.1	820.1	803.4	870.5	899.8	1035.4
22.5°	1383.3	1374.5	1335.4	1259.5	1137.8	993.1	867.1	816.0	879.7	911.8	1060.2
25°	1488.6	1489.2	1450.4	1377.0	1251.3	1086.5	927.6	849.7	902.9	936.3	1094.3
27.5°	1618.8	1611.2	1575.0	1502.1	1363.5	1180.6	1000.7	896.1	937.7	971.4	1139.0
30°	1774.4	1769.1	1727.2	1644.6	1487.9	1281.8	1084.2	949.9	982.4	1017.4	1197.6
32.5°	1957.5	1955.0	1911.5	1805.3	1631.6	1401.0	1182.3	1021.2	1049.2	1085.5	1281.8
35°	2172.5	2172.8	2121.5	1993.8	1788.9	1539.6	1293.4	1112.9	1130.5	1168.3	1382.1
37.5°	2304.9	2320.9	2301.7	2171.6	1967.0	1694.7	1437.8	1234.6	1223.2	1261.4	1489.5
40°	2333.2	2352.8	2413.6	2347.4	2166.2	1865.5	1565.8	1351.5	1337.3	1383.9	1627.9
42.5°	2293.5	2320.6	2449.3	2495.8	2377.7	2076.1	1737.9	1525.1	1507.2	1569.9	1800.0
45°	2269.9	2290.1	2438.9	2573.1	2561.1	2314.0	1957.0	1743.2	1736.6	1818.9	1998.6
47.5°	2228.9	2247.2	2390.3	2591.1	2668.9	2532.1	2220.1	2009.9	2022.8	2130.6	2222.6
50°	2251.0	2258.5	2336.1	2545.4	2700.2	2691.9	2514.2	2318.7	2362.9	2497.5	2476.4
52.5°	2247.8	2267.4	2329.8	2470.4	2704.3	2790.6	2803.8	2663.2	2756.3	2910.7	2757.8
55°	1817.3	1853.2	2255.7	2451.5	2718.7	2887.3	3061.6	3026.3	3199.6	3379.6	3075.5
57.5°	1735.4	1758.1	1981.2	2491.2	2795.6	3072.0	3348.4	3426.0	3715.9	3924.9	3462.5
60°	1719.2	1747.3	1978.3	2539.7	2951.6	3373.0	3773.6	3909.8	4344.1	4572.9	3911.3
62.5°	1669.1	1699.4	1959.7	2533.3	3173.2	3789.4	4318.0	4424.2	4939.8	5162.3	4286.7
65°	1510.3	1538.7	1808.2	2431.6	3322.6	4233.8	4962.1	4895.7	5410.0	5577.3	4473.9
66°	1401.6	1429.3	1688.7	2311.9	3287.9	4359.8	5190.4	5041.6	5515.3	5646.4	4437.3
67.5°	1202.7	1224.4	1456.7	2043.6	3103.5	4395.2	5382.3	5151.2	5526.3	5572.7	4228.4
70°	759.9	766.2	946.7	1410.7	2349.4	3811.7	5090.1	4879.0	5070.6	4945.1	3544.8
72.5°	329.7	327.5	454.5	717.6	1330.1	2557.7	4117.5	4025.8	3977.6	3691.4	2481.4
75°	183.4	186.0	236.1	333.1	540.5	1256.3	2693.5	2577.5	2176.3	1857.0	1125.2
77.5°	147.2	150.7	195.7	236.4	242.7	438.1	1260.4	1025.6	617.4	495.5	312.6
80°	116.3	122.6	170.8	184.1	163.6	180.6	407.2	325.6	244.3	224.1	162.0
82.5°	92.0	96.5	146.6	139.3	114.4	121.7	195.1	190.1	158.9	144.7	93.6
85°	66.2	74.3	120.4	105.0	75.0	82.0	129.5	124.2	91.0	74.3	41.3
87.5°	27.1	35.3	85.1	69.7	41.9	38.2	64.6	60.8	43.1	31.5	20.5
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°	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6
2.5°	949.6	957.1	967.0	973.0	976.1	978.3	981.8	981.5	982.4	982.7	984.0
5°	955.9	968.5	982.7	986.5	986.5	983.0	979.6	973.8	971.7	971.1	971.7
7.5°	972.3	986.2	998.5	994.1	984.6	970.7	952.8	937.0	928.5	925.7	925.1
10°	993.1	1009.8	1014.9	998.2	970.4	937.0	901.4	875.6	860.8	856.7	855.4
12.5°	1018.3	1034.1	1027.2	991.9	940.4	886.6	837.4	796.2	765.2	755.5	754.8
15°	1046.1	1058.4	1034.1	972.3	895.7	816.3	728.7	657.5	619.0	606.7	605.8
17.5°	1071.9	1078.2	1030.0	938.3	829.8	701.3	585.0	530.1	516.9	520.1	520.7
20°	1094.0	1094.0	1016.1	889.4	726.2	549.7	476.2	475.3	484.8	494.2	496.1
22.5°	1118.2	1103.7	991.9	820.4	579.3	449.8	439.1	447.8	458.5	468.9	470.6
25°	1148.2	1111.6	958.1	715.8	455.4	408.4	412.5	419.8	425.1	431.8	432.8
27.5°	1181.6	1121.7	913.7	571.7	395.3	382.7	385.8	388.3	387.6	390.2	390.8
30°	1221.6	1133.4	852.8	446.9	370.4	360.5	354.9	352.7	352.7	356.8	358.3
32.5°	1275.2	1150.7	765.5	383.0	358.3	344.8	326.6	318.3	321.5	335.3	338.5
35°	1334.2	1169.3	647.4	361.2	355.9	337.5	309.2	294.0	294.4	307.3	311.4
37.5°	1398.4	1193.0	517.8	357.1	361.5	337.9	300.0	279.2	270.7	270.7	272.4
40°	1480.7	1217.2	419.2	360.0	373.5	341.6	295.4	267.6	243.6	244.3	245.5
42.5°	1587.8	1238.0	366.3	365.9	388.0	346.7	295.0	252.1	231.3	245.5	258.4
45°	1707.0	1248.4	342.9	371.3	399.7	349.8	290.0	249.6	232.9	275.1	299.7
47.5°	1844.1	1242.4	330.0	373.1	402.5	349.8	284.3	255.7	243.9	318.6	347.4
50°	1994.5	1225.1	317.4	369.4	401.6	349.2	289.6	261.6	248.0	326.2	346.0
52.5°	2171.3	1210.6	304.1	361.2	394.9	345.7	295.9	259.1	235.1	296.6	310.4
55°	2372.9	1214.7	289.3	349.6	384.5	339.2	293.7	249.0	221.6	261.3	269.8
57.5°	2630.8	1263.6	271.7	334.8	370.4	328.1	285.9	244.3	217.5	237.0	242.1
60°	2918.5	1348.6	249.6	319.9	352.7	310.4	279.9	246.5	219.4	235.1	237.6
62.5°	3129.7	1398.1	230.7	298.1	328.8	290.9	272.4	249.3	224.4	241.7	241.1
65°	3187.0	1316.8	207.1	266.3	296.3	270.4	262.8	252.4	226.6	247.1	244.3
66°	3106.7	1229.2	196.7	251.5	279.9	260.3	258.1	252.1	225.7	247.7	243.0
67.5°	2911.6	1049.5	178.7	229.8	253.7	245.3	250.6	249.3	223.1	247.1	240.5
70°	2374.6	716.1	152.9	191.3	211.2	215.9	236.1	239.2	214.9	236.1	221.6
72.5°	1659.1	436.2	135.2	148.5	170.8	184.1	216.2	225.3	203.9	206.1	192.3
75°	801.8	231.7	122.6	115.1	132.6	153.8	192.3	206.4	186.6	172.4	167.4
77.5°	249.9	141.5	104.0	92.7	104.0	124.2	160.7	180.9	166.1	144.4	142.5
80°	134.3	104.0	80.1	74.3	82.3	97.4	126.3	151.0	142.8	129.5	115.7
82.5°	88.6	67.5	59.3	57.6	62.7	74.3	93.9	125.1	125.1	111.0	80.7
85°	45.7	41.3	40.7	40.7	43.8	49.5	63.9	96.5	102.8	58.6	48.6
87.5°	22.7	23.7	22.0	23.0	24.6	24.2	30.5	48.6	58.0	35.6	29.6
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)