

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: P192579

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5023.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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: 28.75 FT

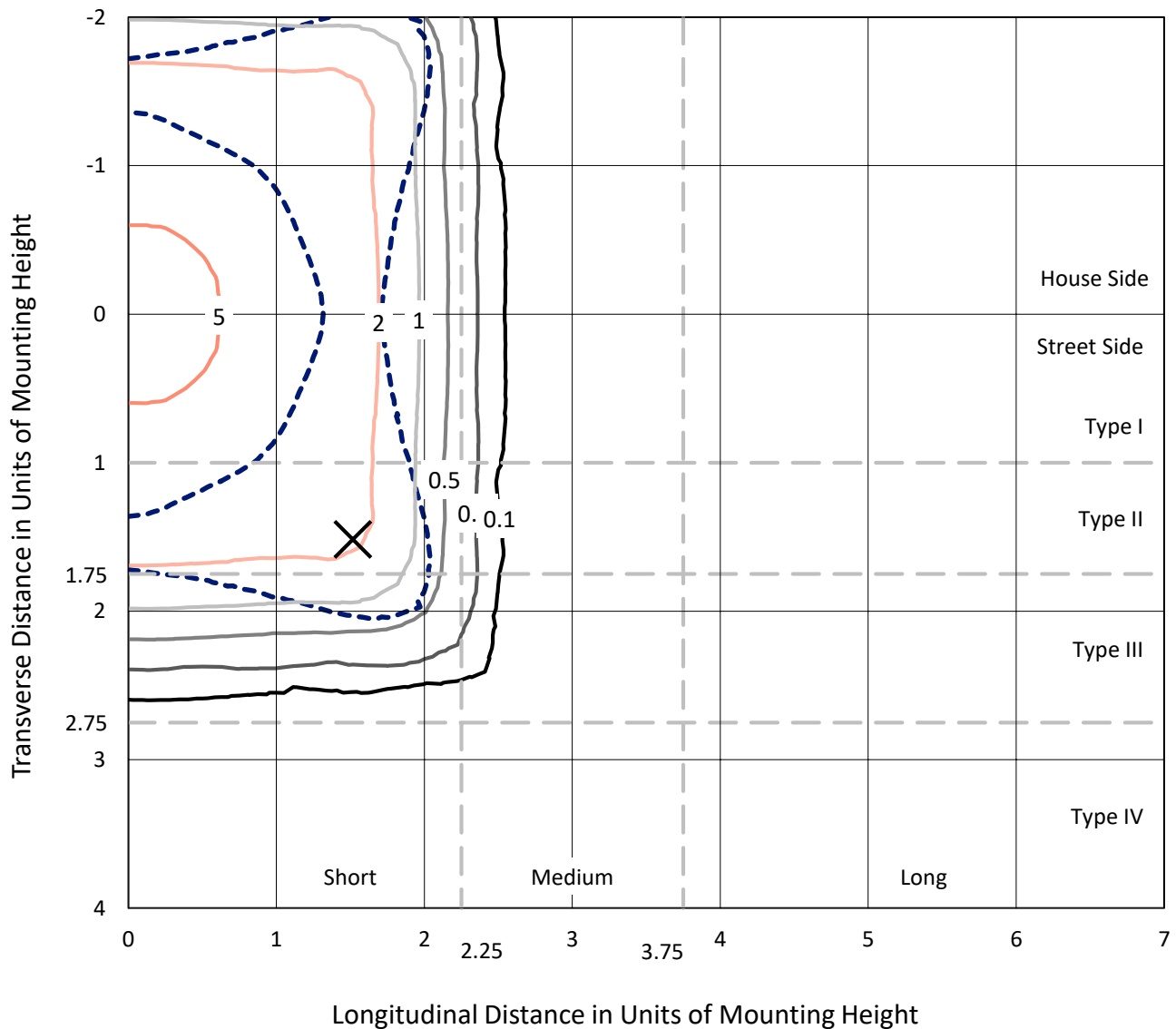


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

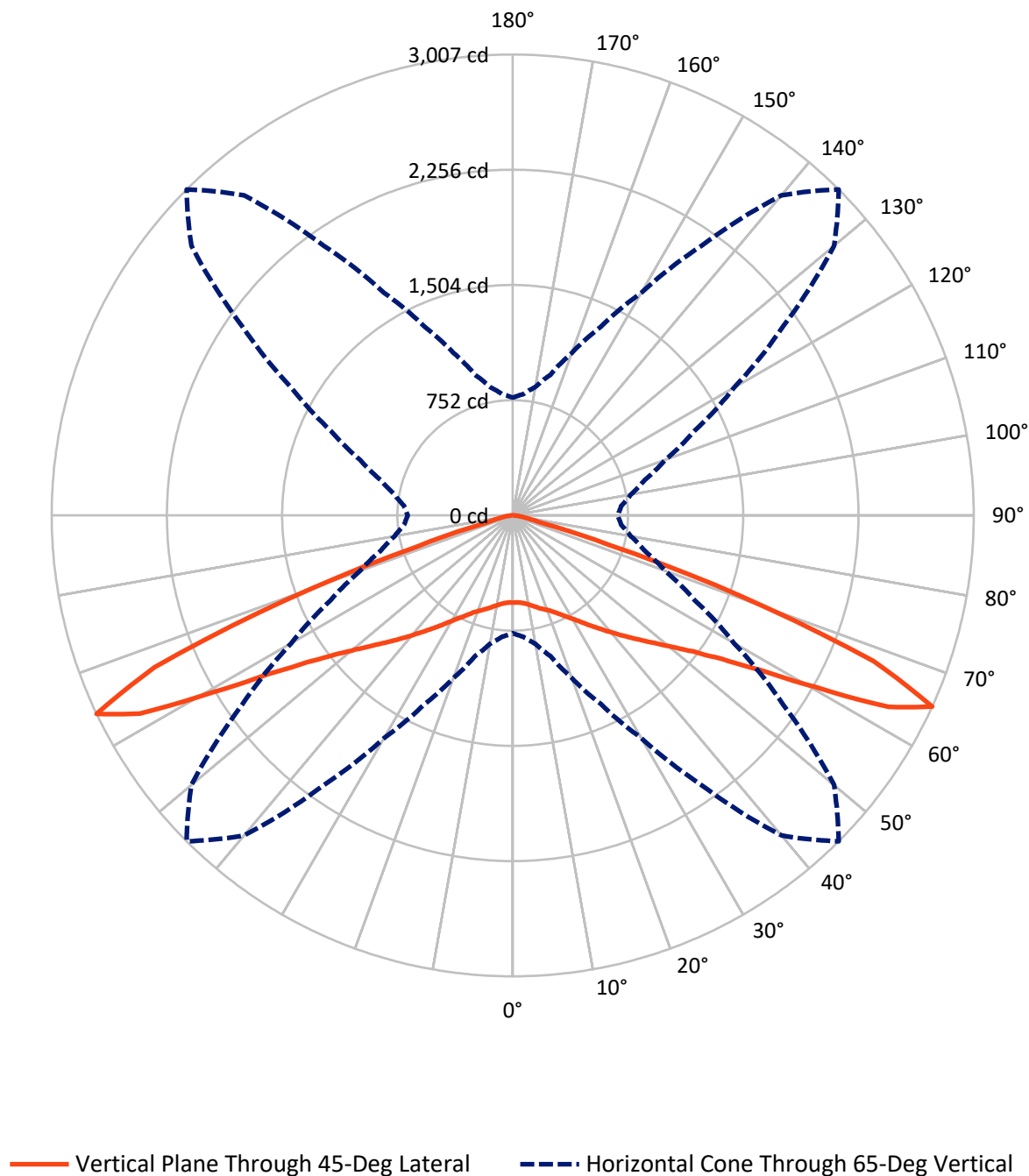


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2511.9	0.0	2511.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2511.9	0.0	2511.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5023.7	0.0	5023.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.1
10°-20°	177.7	3.5
20°-30°	332.3	6.6
30°-40°	561.9	11.2
40°-50°	918.8	18.3
50°-60°	1461.1	29.1
60°-70°	1320.7	26.3
70°-80°	167.1	3.3
80°-90°	28.8	0.6
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°	5023.7	100.0
0°-180°	5023.7	100.0

Coefficient of Utilization



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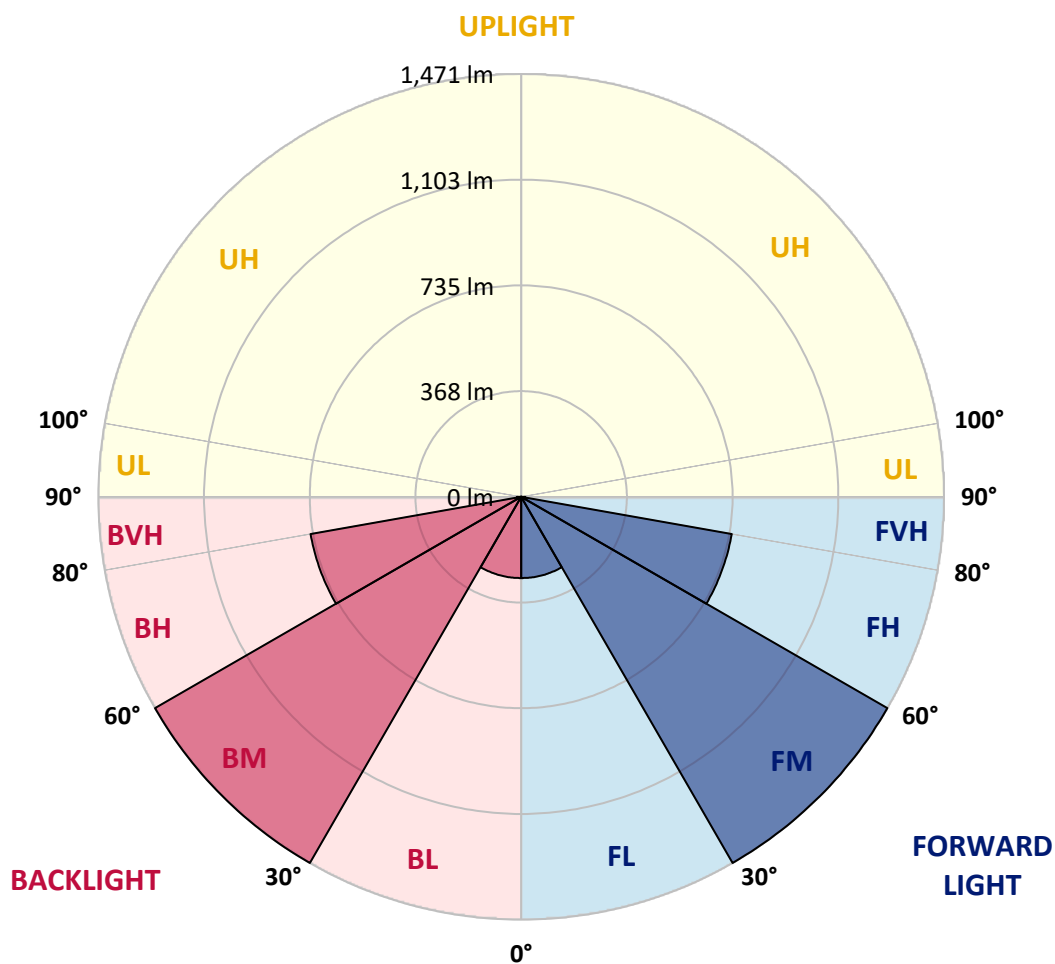
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.7	5.6			
FM	(30°-60°)	1470.9	29.3			
FH	(60°-80°)	743.9	14.8			G1/1800
FVH	(80°-90°)	14.4	0.3			G1/100
BL	(0°-30°)	282.7	5.6	B1/500		
BM	(30°-60°)	1470.9	29.3	B2/2500		
BH	(60°-80°)	743.9	14.8	B2/1000		G1/1800
BVH	(80°-90°)	14.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4
2.5°	568.9	569.4	569.9	569.4	569.9	569.1	568.7	569.4	568.7	567.9	568.4
5°	573.8	574.0	574.0	573.4	574.0	573.6	572.9	573.8	573.2	572.4	572.9
7.5°	582.2	583.0	582.4	581.6	582.2	581.6	581.1	581.4	581.1	580.3	580.7
10°	593.2	593.9	593.4	593.2	593.6	593.4	592.9	592.6	592.9	592.1	592.1
12.5°	606.6	606.3	606.1	606.3	607.1	607.1	606.8	607.1	607.5	607.7	607.3
15°	619.7	620.1	620.1	620.1	621.5	622.8	623.6	624.0	624.9	625.2	624.2
17.5°	636.2	636.2	636.0	636.2	637.6	639.5	640.1	641.2	642.1	642.8	641.6
20°	654.6	655.0	655.0	655.4	657.4	659.5	659.5	659.9	659.5	659.9	659.3
22.5°	676.9	678.3	678.3	678.5	680.4	683.0	682.4	683.0	681.9	682.8	681.9
25°	706.1	708.2	707.7	707.7	709.1	710.7	711.1	712.5	712.2	713.4	712.7
27.5°	739.0	742.3	743.3	743.0	743.9	745.5	746.0	747.8	746.8	747.8	747.3
30°	778.6	780.0	781.9	782.6	783.7	785.3	785.3	785.6	784.5	785.8	786.5
32.5°	819.5	822.0	824.0	828.1	830.3	831.5	831.3	831.7	830.6	832.4	833.8
35°	873.6	875.5	878.6	881.8	884.7	884.5	883.7	883.9	883.9	885.5	886.9
37.5°	938.7	939.2	943.2	948.0	949.4	948.0	943.7	942.8	940.6	942.8	945.1
40°	1007.7	1009.3	1017.3	1020.4	1021.1	1018.6	1012.4	1008.9	1004.2	1006.8	1010.1
42.5°	1079.9	1083.2	1090.5	1096.0	1098.3	1096.6	1088.2	1082.8	1076.6	1078.1	1081.3
45°	1159.9	1163.9	1174.3	1179.5	1184.0	1181.3	1173.1	1164.9	1155.2	1156.0	1161.1
47.5°	1249.4	1253.3	1266.8	1275.5	1277.8	1277.4	1268.2	1256.9	1243.7	1243.3	1247.7
50°	1349.6	1353.6	1370.3	1383.7	1390.6	1389.8	1379.0	1363.0	1346.9	1347.1	1352.8
52.5°	1447.4	1452.4	1469.7	1492.8	1506.2	1515.9	1509.3	1494.2	1474.8	1475.2	1480.4
55°	1539.3	1547.4	1567.5	1598.7	1623.7	1650.7	1658.4	1658.0	1646.2	1649.6	1654.7
57.5°	1583.7	1596.0	1626.8	1676.1	1727.0	1782.0	1828.6	1863.4	1878.2	1900.6	1895.4
60°	1499.5	1518.9	1564.4	1637.0	1737.5	1852.4	1975.4	2095.7	2198.2	2275.7	2231.2
62.5°	1227.7	1253.1	1308.2	1401.4	1553.3	1737.1	1972.5	2256.9	2566.5	2753.3	2619.8
65°	768.2	794.6	850.6	950.3	1128.2	1356.7	1676.1	2147.2	2725.7	3007.4	2735.9
67.5°	299.5	313.9	344.1	408.0	541.6	744.9	1065.6	1600.1	2292.2	2538.9	2249.5
70°	150.1	151.6	157.2	169.0	197.6	256.6	390.6	741.9	1314.5	1587.6	1267.2
72.5°	108.5	108.7	111.6	116.7	125.8	139.1	164.4	227.0	427.5	653.4	400.7
75°	83.0	84.0	85.7	88.5	93.4	100.0	109.2	130.8	162.1	188.0	158.1
77.5°	64.0	65.9	67.0	69.6	72.6	77.1	79.8	88.0	102.3	107.7	106.1
80°	48.7	50.4	53.0	55.0	57.2	59.3	58.4	62.2	69.6	74.1	71.8
82.5°	31.0	32.9	40.4	42.4	43.2	44.7	43.0	43.2	46.6	49.3	46.6
85°	20.0	21.2	25.6	28.0	28.2	29.2	28.5	26.8	26.8	24.5	27.6
87.5°	9.2	9.4	11.6	13.6	14.1	12.7	12.4	12.0	9.7	9.2	9.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	568.4	568.4	568.4	568.4	568.4	568.4	568.4	568.4
2.5°	568.2	568.7	568.9	569.6	569.9	569.9	570.2	570.6
5°	572.6	573.4	573.6	574.6	574.8	574.6	575.0	575.2
7.5°	580.7	581.8	582.4	583.2	582.6	583.5	583.8	583.8
10°	592.4	593.6	593.9	594.8	594.4	594.8	594.8	594.4
12.5°	607.9	608.2	607.5	608.2	607.3	607.7	607.1	606.6
15°	625.2	624.4	622.8	622.8	621.3	621.5	621.3	621.1
17.5°	641.9	640.5	639.2	638.8	637.6	637.4	636.7	636.7
20°	660.2	659.5	658.9	657.8	656.6	655.4	655.2	655.8
22.5°	682.4	682.1	682.1	681.6	679.9	678.8	678.1	678.1
25°	712.0	709.8	709.8	709.6	708.9	708.2	706.8	707.5
27.5°	745.3	744.2	745.1	744.9	744.2	744.2	743.3	743.3
30°	786.5	786.1	787.4	786.3	783.9	783.7	782.8	781.6
32.5°	834.0	833.6	835.8	834.3	830.6	828.4	826.5	825.6
35°	886.9	887.3	889.8	889.0	884.7	883.3	880.0	879.4
37.5°	944.9	948.7	953.2	954.1	950.5	949.6	946.0	944.2
40°	1012.9	1017.9	1024.7	1026.3	1022.5	1021.8	1016.8	1014.3
42.5°	1085.4	1093.8	1102.3	1103.7	1099.9	1096.2	1091.5	1089.6
45°	1166.4	1176.4	1187.4	1190.3	1184.6	1180.2	1174.1	1174.1
47.5°	1257.1	1269.8	1282.2	1290.1	1284.9	1280.2	1272.9	1268.2
50°	1364.4	1381.8	1398.1	1406.0	1397.8	1388.9	1376.1	1372.0
52.5°	1498.9	1517.8	1532.0	1527.7	1515.0	1502.6	1488.6	1482.9
55°	1670.7	1677.1	1677.1	1661.1	1635.7	1614.8	1592.9	1585.6
57.5°	1885.6	1861.1	1823.4	1775.7	1715.7	1663.5	1628.2	1611.5
60°	2137.9	2020.3	1887.5	1756.9	1649.6	1561.1	1508.7	1484.7
62.5°	2306.3	1998.5	1732.1	1522.5	1368.2	1261.6	1189.1	1160.9
65°	2155.3	1666.7	1310.0	1059.3	891.0	782.6	710.7	684.4
67.5°	1578.7	1044.4	697.6	500.0	366.3	292.3	262.8	250.5
70°	708.6	367.7	225.4	176.0	151.8	139.3	133.9	131.9
72.5°	213.6	154.6	130.3	117.7	107.9	101.8	97.5	96.9
75°	128.9	107.3	95.3	87.7	81.6	76.7	74.3	73.6
77.5°	90.1	78.7	73.2	67.7	63.1	59.3	57.2	55.5
80°	63.3	57.9	55.2	52.2	49.1	45.7	42.6	41.2
82.5°	42.4	41.2	41.2	39.4	36.7	33.5	27.4	25.9
85°	27.4	27.1	27.6	26.8	24.9	21.5	17.7	16.7
87.5°	12.7	12.9	14.3	14.1	13.6	11.3	9.0	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)