

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: P268326

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268326
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-03-LED-U-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10730.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 96
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

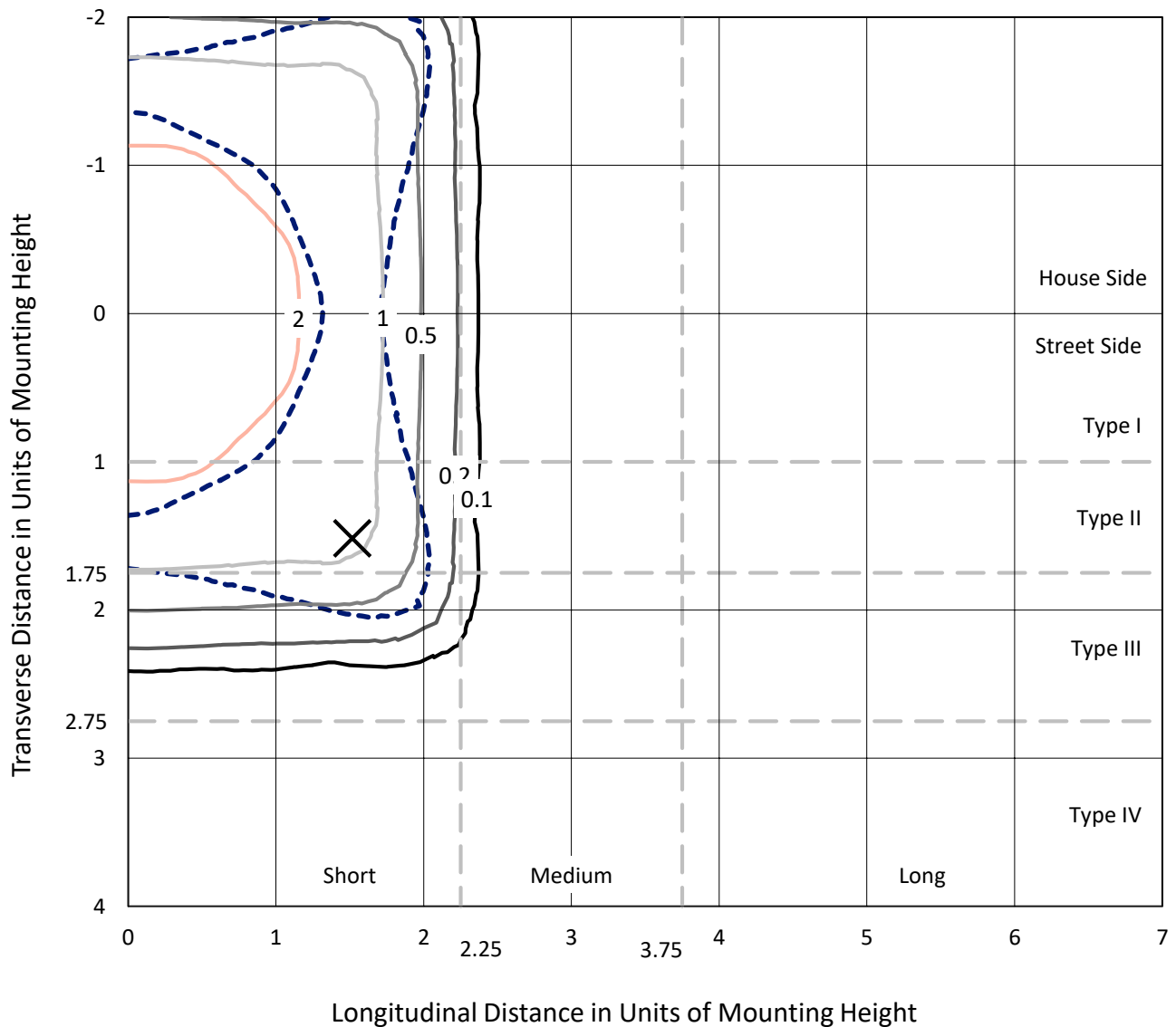


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

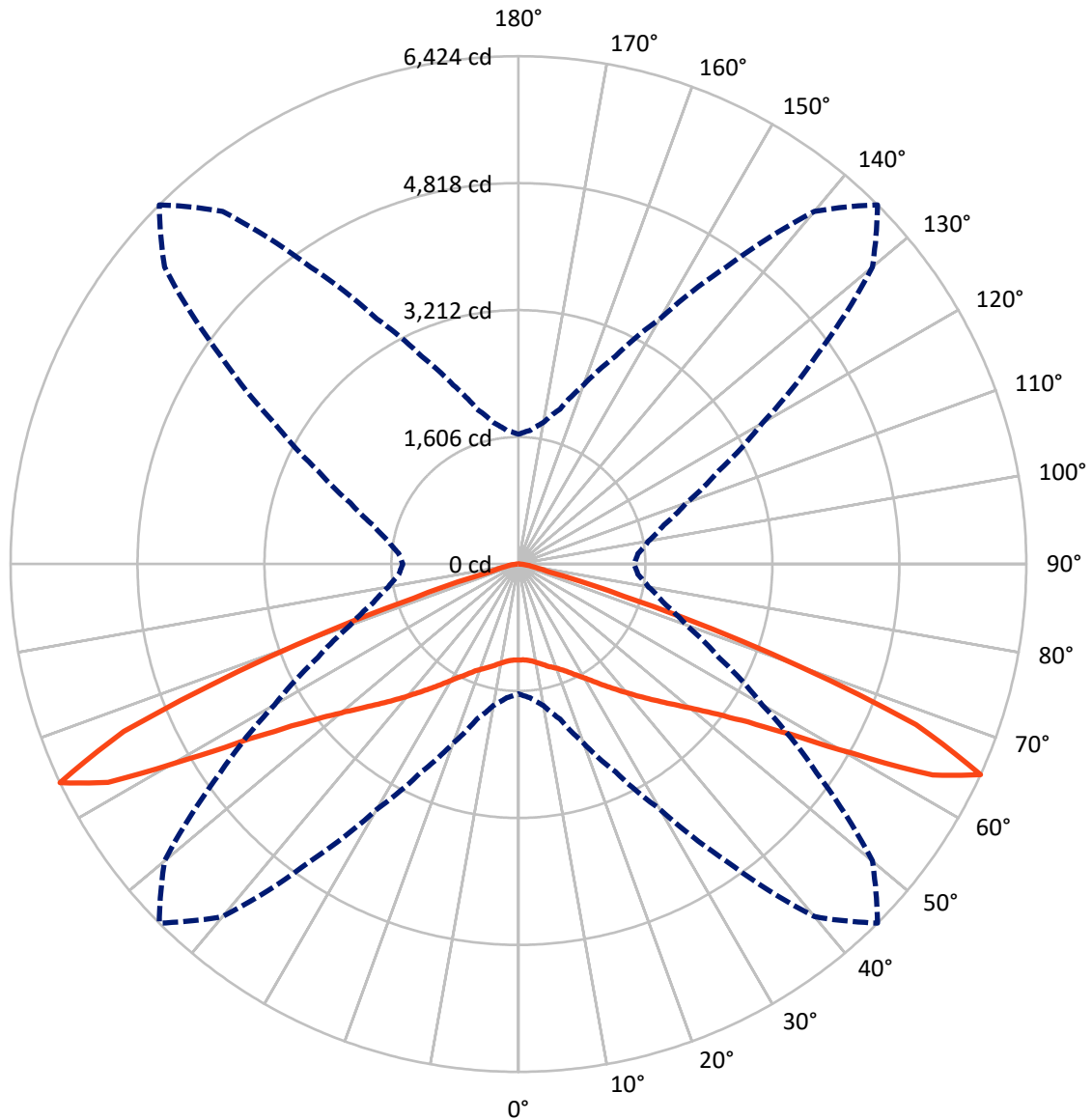


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5365.3	0.0	5365.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5365.3	0.0	5365.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10730.5	0.0	10730.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.1
10°-20°	379.5	3.5
20°-30°	709.7	6.6
30°-40°	1200.3	11.2
40°-50°	1962.6	18.3
50°-60°	3120.8	29.1
60°-70°	2821.0	26.3
70°-80°	357.0	3.3
80°-90°	61.4	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°	10730.5	100.0
0°-180°	10730.5	100.0



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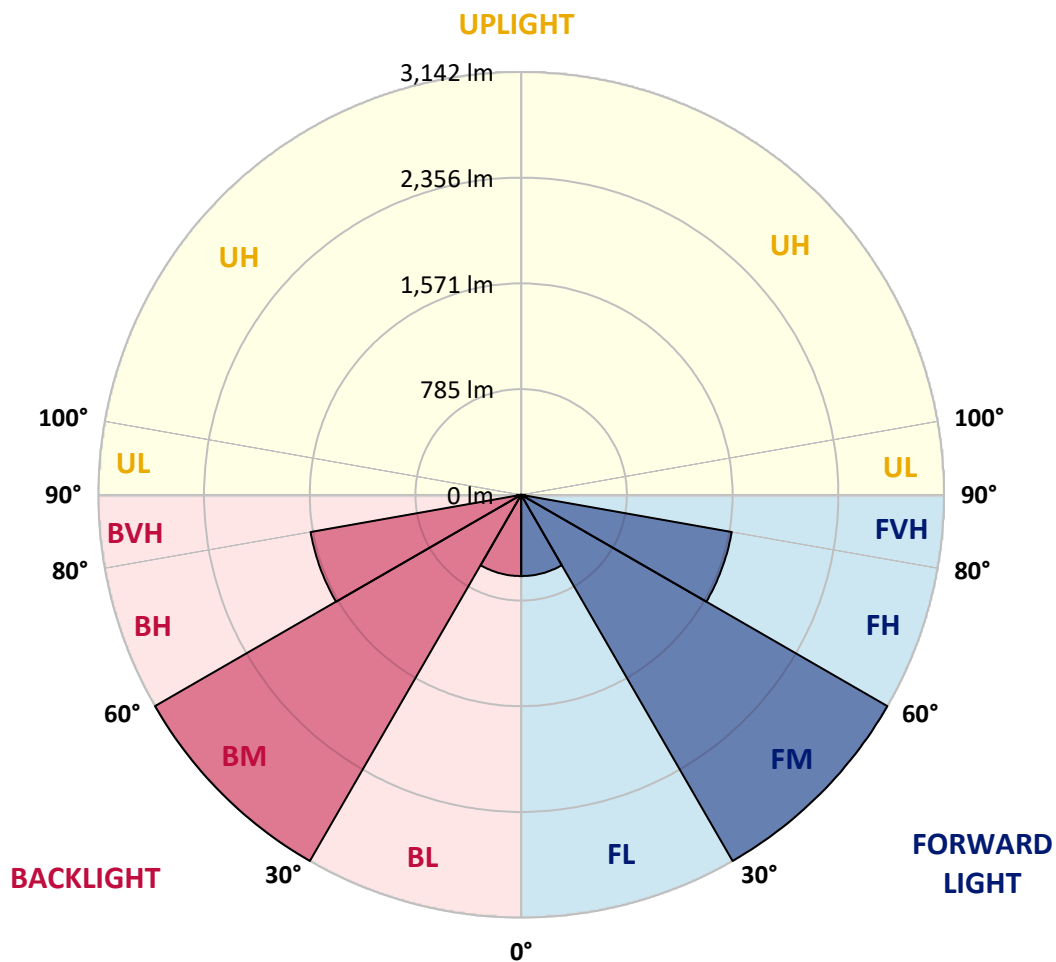
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.8	5.6			
FM	(30°-60°)	3141.8	29.3			
FH	(60°-80°)	1589.0	14.8			G1/1800
FVH	(80°-90°)	30.7	0.3			G1/100
BL	(0°-30°)	603.8	5.6	B2/1000		
BM	(30°-60°)	3141.8	29.3	B3/5000		
BH	(60°-80°)	1589.0	14.8	B3/2500		G1/1800
BVH	(80°-90°)	30.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1215.1	1216.1	1217.2	1216.1	1217.2	1215.6	1214.7	1216.1	1214.7	1213.3	1214.1
5°	1225.7	1226.2	1226.2	1224.7	1226.2	1225.2	1223.8	1225.7	1224.2	1222.8	1223.8
7.5°	1243.3	1245.3	1243.9	1242.3	1243.3	1242.3	1241.3	1241.7	1241.3	1239.8	1240.3
10°	1266.9	1268.4	1267.5	1266.9	1268.0	1267.5	1266.4	1265.9	1266.4	1265.0	1265.0
12.5°	1295.5	1295.0	1294.5	1295.0	1296.6	1296.6	1296.1	1296.6	1297.6	1298.1	1297.2
15°	1323.7	1324.7	1324.7	1324.7	1327.8	1330.3	1331.7	1332.7	1334.8	1335.3	1333.3
17.5°	1358.9	1358.9	1358.3	1358.9	1361.9	1366.0	1367.4	1369.5	1371.4	1373.0	1370.5
20°	1398.1	1399.1	1399.1	1400.1	1404.1	1408.6	1408.6	1409.7	1408.6	1409.7	1408.2
22.5°	1445.8	1448.8	1448.8	1449.3	1453.4	1458.8	1457.4	1458.8	1456.4	1458.4	1456.4
25°	1508.2	1512.7	1511.7	1511.7	1514.7	1518.2	1518.8	1521.6	1521.2	1523.7	1522.3
27.5°	1578.5	1585.6	1587.6	1587.0	1589.1	1592.5	1593.7	1597.0	1595.1	1597.0	1596.1
30°	1662.9	1665.9	1669.9	1671.4	1674.0	1677.6	1677.6	1678.0	1675.5	1678.6	1680.0
32.5°	1750.3	1755.8	1759.9	1769.0	1773.6	1775.9	1775.5	1776.5	1774.1	1778.0	1781.0
35°	1866.0	1870.0	1876.5	1883.6	1889.6	1889.0	1887.6	1888.1	1888.1	1891.7	1894.6
37.5°	2005.1	2006.2	2014.7	2024.8	2027.8	2024.8	2015.7	2013.7	2009.1	2013.7	2018.8
40°	2152.3	2155.9	2173.0	2179.6	2181.1	2175.5	2162.5	2154.9	2145.0	2150.5	2157.5
42.5°	2306.7	2313.8	2329.3	2341.0	2346.0	2342.4	2324.4	2312.7	2299.8	2302.6	2309.7
45°	2477.5	2486.1	2508.2	2519.2	2528.9	2523.2	2505.7	2488.1	2467.6	2469.0	2480.1
47.5°	2668.5	2677.0	2705.8	2724.3	2729.4	2728.3	2708.7	2684.7	2656.5	2655.5	2665.0
50°	2882.7	2891.1	2926.9	2955.6	2970.1	2968.5	2945.5	2911.2	2877.1	2877.6	2889.7
52.5°	3091.6	3102.2	3139.4	3188.8	3217.3	3237.9	3223.8	3191.7	3149.9	3151.1	3162.0
55°	3287.6	3305.3	3348.1	3414.8	3468.0	3525.8	3542.5	3541.5	3516.3	3523.4	3534.4
57.5°	3382.7	3408.8	3474.6	3580.1	3688.7	3806.3	3905.8	3980.2	4011.9	4059.6	4048.5
60°	3202.7	3244.5	3341.4	3496.7	3711.3	3956.6	4219.3	4476.3	4695.4	4860.6	4765.7
62.5°	2622.3	2676.6	2794.2	2993.2	3317.9	3710.3	4213.4	4820.5	5481.8	5880.8	5595.9
65°	1640.8	1697.1	1816.7	2029.8	2409.8	2897.8	3580.1	4586.2	5822.1	6423.6	5843.7
67.5°	639.8	670.5	735.3	871.4	1156.8	1591.1	2276.0	3417.8	4895.9	5423.1	4804.9
70°	320.6	323.7	335.6	360.8	422.2	548.2	834.3	1584.5	2807.7	3391.2	2706.8
72.5°	231.7	232.2	238.2	249.3	268.9	297.0	351.2	484.9	913.1	1395.5	855.8
75°	177.3	179.4	183.0	189.0	199.6	213.5	233.2	279.5	346.2	401.5	337.8
77.5°	136.7	140.8	143.2	148.8	155.2	164.7	170.4	187.9	218.6	230.1	226.6
80°	104.1	107.5	113.0	117.6	122.1	126.7	124.7	132.7	148.8	158.3	153.3
82.5°	66.4	70.3	86.4	90.5	92.4	95.5	91.9	92.4	99.5	105.6	99.5
85°	42.7	45.3	54.7	59.7	60.2	62.3	60.8	57.3	57.3	52.3	58.7
87.5°	19.7	20.1	24.7	29.1	30.2	27.0	26.6	25.6	20.7	19.7	21.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1213.7	1214.7	1215.1	1216.7	1217.2	1217.2	1217.7	1218.7
5°	1223.2	1224.7	1225.2	1227.3	1227.8	1227.3	1228.3	1228.7
7.5°	1240.3	1242.8	1243.9	1245.8	1244.3	1246.3	1246.8	1246.8
10°	1265.4	1268.0	1268.4	1270.5	1269.5	1270.5	1270.5	1269.5
12.5°	1298.6	1299.0	1297.6	1299.0	1297.2	1298.1	1296.6	1295.5
15°	1335.3	1333.8	1330.3	1330.3	1327.2	1327.8	1327.2	1326.7
17.5°	1371.0	1367.9	1365.5	1364.4	1361.9	1361.4	1359.9	1359.9
20°	1410.2	1408.6	1407.1	1405.0	1402.7	1400.1	1399.6	1400.5
22.5°	1457.4	1457.0	1457.0	1456.0	1452.4	1449.9	1448.3	1448.3
25°	1520.7	1516.2	1516.2	1515.7	1514.3	1512.7	1509.7	1511.2
27.5°	1592.1	1589.6	1591.5	1591.1	1589.6	1589.6	1587.6	1587.6
30°	1680.0	1679.0	1682.0	1679.6	1674.5	1674.0	1671.9	1669.5
32.5°	1781.6	1780.5	1785.0	1782.1	1774.1	1769.5	1765.4	1763.5
35°	1894.6	1895.2	1900.6	1898.7	1889.6	1886.6	1879.6	1878.5
37.5°	2018.2	2026.2	2035.9	2037.8	2030.3	2028.4	2020.7	2016.8
40°	2163.5	2174.1	2188.6	2192.1	2184.0	2182.6	2172.0	2166.5
42.5°	2318.3	2336.3	2354.5	2357.5	2349.4	2341.4	2331.3	2327.2
45°	2491.2	2512.7	2536.4	2542.5	2530.3	2520.9	2507.8	2507.8
47.5°	2685.2	2712.3	2738.9	2755.6	2744.4	2734.4	2718.8	2708.7
50°	2914.3	2951.6	2986.1	3003.3	2985.6	2966.6	2939.4	2930.5
52.5°	3201.7	3242.0	3272.2	3263.1	3236.0	3209.4	3179.6	3167.7
55°	3568.6	3582.3	3582.3	3548.0	3493.8	3449.0	3402.3	3386.7
57.5°	4027.5	3975.2	3894.8	3792.7	3664.6	3553.1	3477.7	3441.9
60°	4566.8	4315.4	4031.5	3752.6	3523.4	3334.4	3222.4	3171.0
62.5°	4926.0	4268.7	3699.8	3252.0	2922.4	2694.6	2539.9	2479.6
65°	4603.9	3560.2	2798.2	2262.6	1903.1	1671.4	1518.2	1461.9
67.5°	3372.1	2230.9	1490.1	1067.9	782.5	624.1	561.4	535.2
70°	1513.6	785.5	481.4	375.9	324.2	297.5	285.9	282.0
72.5°	456.2	330.1	278.5	251.3	230.7	217.6	208.0	207.1
75°	275.4	229.2	203.6	187.4	174.5	163.9	158.8	157.4
77.5°	192.4	168.3	156.2	144.7	134.7	126.7	122.1	118.5
80°	135.1	123.6	118.0	111.6	105.0	97.5	91.0	87.9
82.5°	90.5	87.9	87.9	83.9	78.4	71.3	58.3	55.2
85°	58.3	57.9	58.7	57.3	53.3	45.8	37.6	35.8
87.5°	27.0	27.7	30.6	30.2	29.1	24.2	19.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)