

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: P268245

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268245
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-02-LED-U-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10915 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

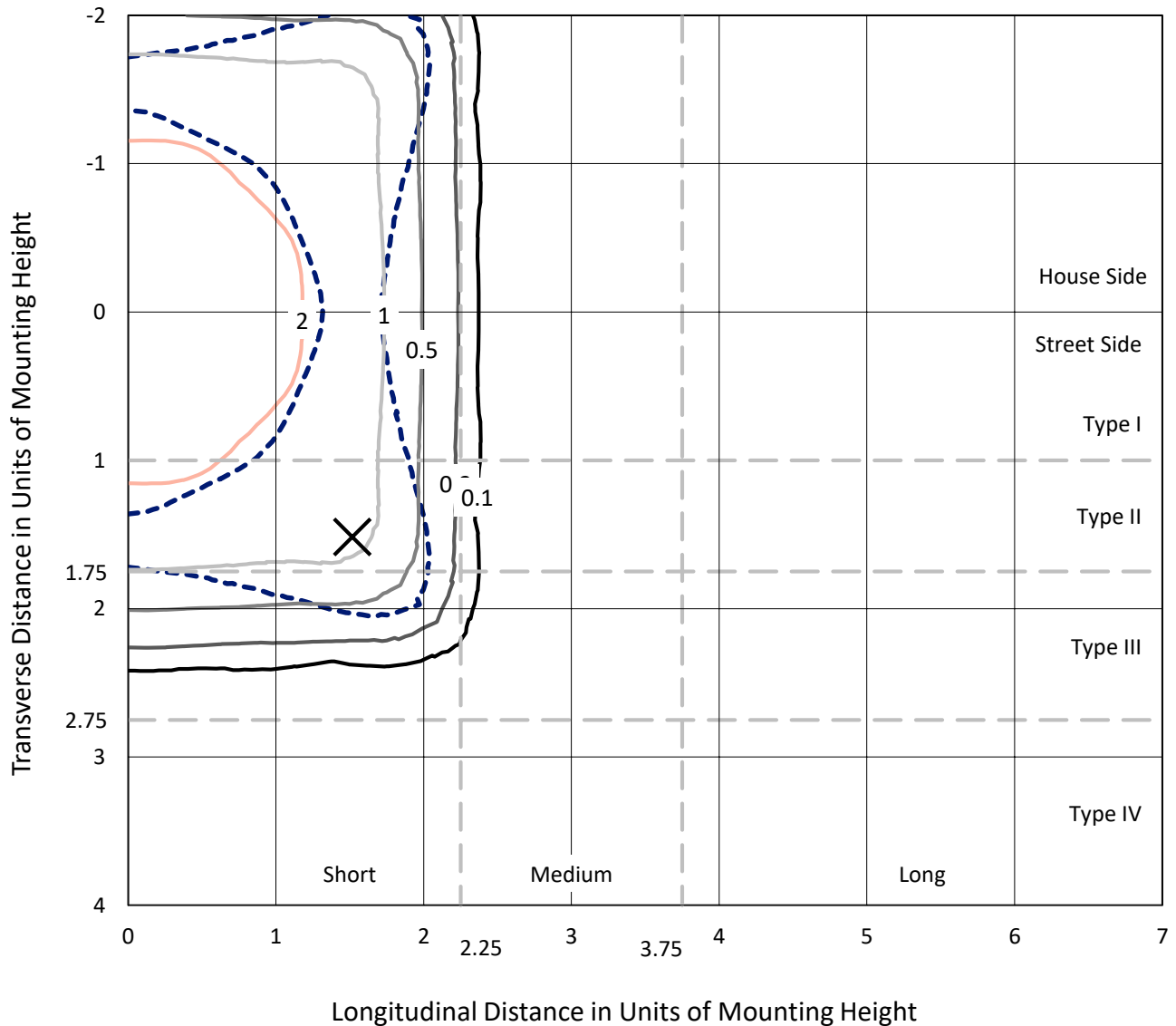
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

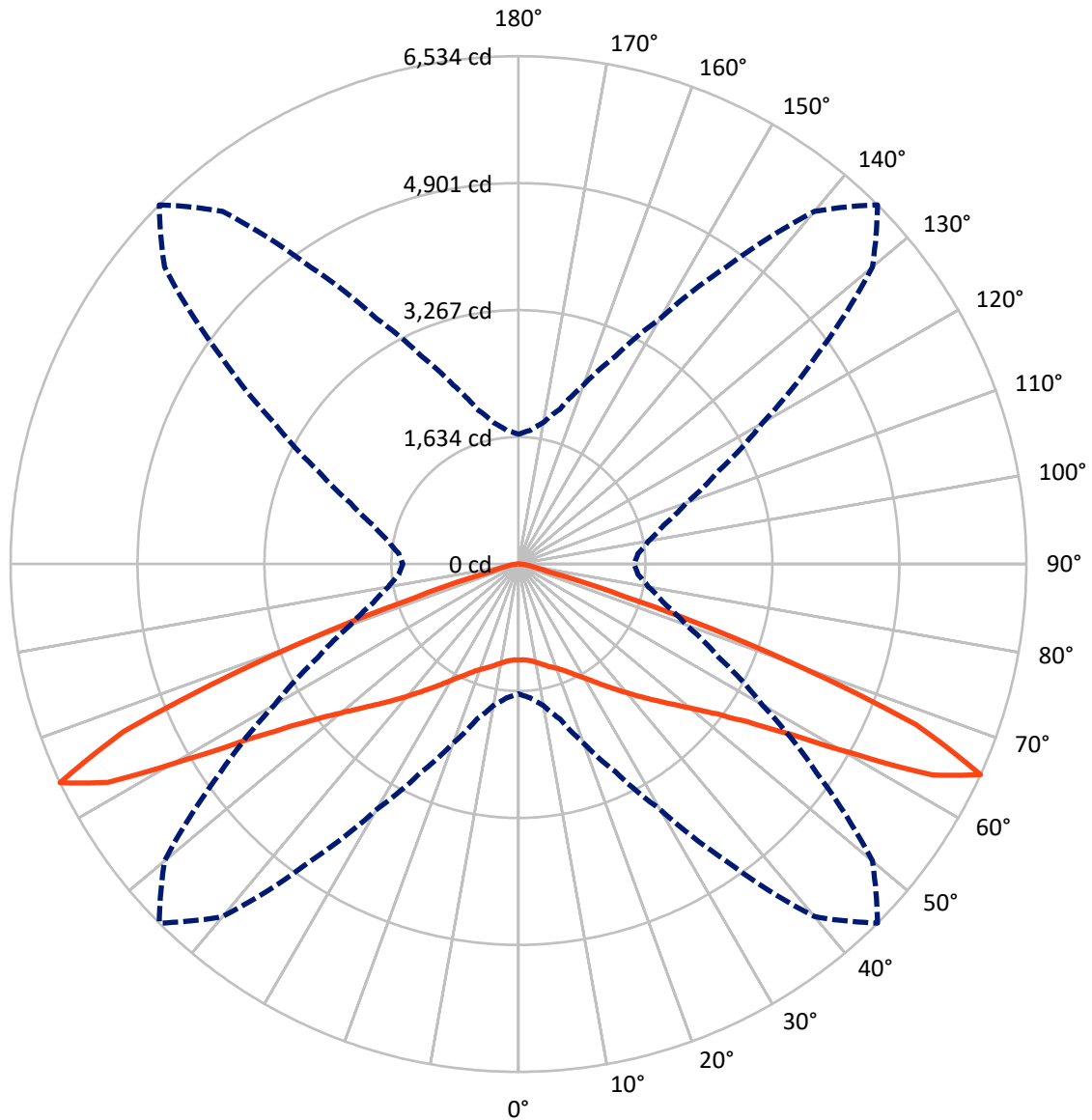
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	5457.5	0.0	5457.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5457.5	0.0	5457.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10915.0	0.0	10915.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.1
10°-20°	386.1	3.5
20°-30°	721.9	6.6
30°-40°	1220.9	11.2
40°-50°	1996.3	18.3
50°-60°	3174.4	29.1
60°-70°	2869.5	26.3
70°-80°	363.1	3.3
80°-90°	62.5	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°	10915.0	100.0
0°-180°	10915.0	100.0



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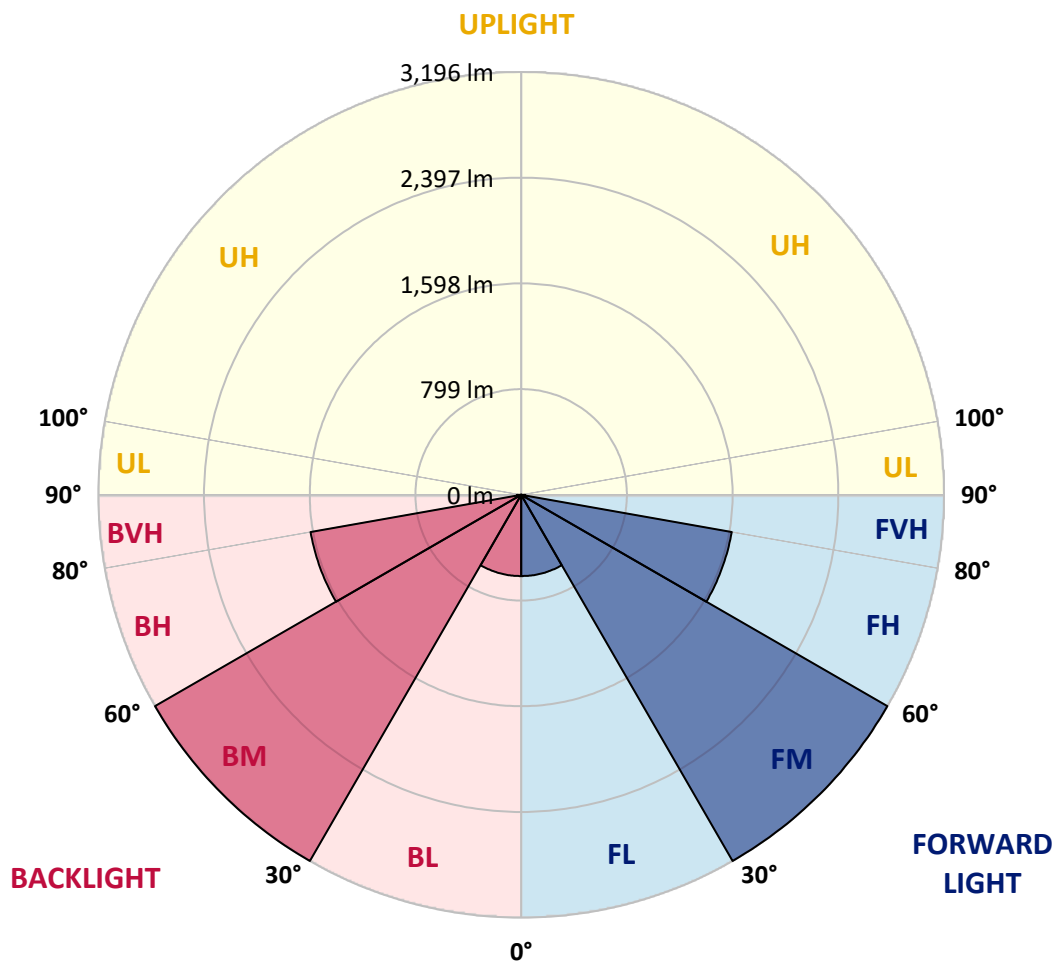
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.2	5.6			
FM	(30°-60°)	3195.8	29.3			
FH	(60°-80°)	1616.3	14.8			G1/1800
FVH	(80°-90°)	31.2	0.3			G1/100
BL	(0°-30°)	614.2	5.6	B2/1000		
BM	(30°-60°)	3195.8	29.3	B3/5000		
BH	(60°-80°)	1616.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	31.2	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°	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0
2.5°	1236.1	1237.1	1238.1	1237.1	1238.1	1236.5	1235.6	1237.1	1235.6	1234.0	1235.0
5°	1246.8	1247.2	1247.2	1245.8	1247.2	1246.3	1244.7	1246.8	1245.3	1243.8	1244.7
7.5°	1264.8	1266.7	1265.3	1263.6	1264.8	1263.6	1262.7	1263.1	1262.7	1261.1	1261.6
10°	1288.7	1290.2	1289.2	1288.7	1289.7	1289.2	1288.2	1287.7	1288.2	1286.7	1286.7
12.5°	1317.9	1317.4	1316.8	1317.4	1318.9	1318.9	1318.4	1318.9	1319.9	1320.4	1319.4
15°	1346.5	1347.5	1347.5	1347.5	1350.6	1353.1	1354.6	1355.7	1357.7	1358.2	1356.3
17.5°	1382.2	1382.2	1381.8	1382.2	1385.4	1389.4	1390.9	1393.0	1395.1	1396.5	1394.0
20°	1422.1	1423.2	1423.2	1424.3	1428.2	1432.8	1432.8	1434.0	1432.8	1434.0	1432.3
22.5°	1470.7	1473.8	1473.8	1474.3	1478.4	1484.0	1482.5	1484.0	1481.5	1483.6	1481.5
25°	1534.0	1538.6	1537.7	1537.7	1540.8	1544.4	1544.8	1547.9	1547.4	1549.9	1548.4
27.5°	1605.7	1612.7	1614.9	1614.3	1616.4	1620.0	1621.0	1624.6	1622.5	1624.6	1623.5
30°	1691.6	1694.7	1698.7	1700.2	1702.7	1706.4	1706.4	1706.9	1704.4	1707.4	1708.9
32.5°	1780.5	1786.1	1790.2	1799.5	1803.9	1806.5	1806.0	1807.1	1804.5	1808.6	1811.7
35°	1898.1	1902.2	1908.8	1915.9	1922.2	1921.6	1920.0	1920.5	1920.5	1924.1	1927.3
37.5°	2039.6	2040.7	2049.4	2059.6	2062.7	2059.6	2050.4	2048.3	2043.7	2048.3	2053.4
40°	2189.4	2193.0	2210.4	2217.0	2218.5	2213.0	2199.7	2192.0	2181.8	2187.5	2194.6
42.5°	2346.5	2353.5	2369.4	2381.1	2386.3	2382.7	2364.2	2352.5	2339.2	2342.3	2349.4
45°	2520.1	2528.9	2551.4	2562.7	2572.3	2566.6	2548.9	2531.0	2510.0	2511.5	2522.7
47.5°	2714.5	2723.1	2752.2	2771.2	2776.3	2775.3	2755.3	2730.8	2702.2	2701.2	2710.8
50°	2932.2	2941.0	2977.3	3006.4	3021.2	3019.7	2996.0	2961.4	2926.6	2927.0	2939.3
52.5°	3144.8	3155.6	3193.5	3243.5	3272.6	3293.6	3279.4	3246.6	3204.2	3205.2	3216.4
55°	3344.2	3362.1	3405.6	3473.6	3527.7	3586.6	3603.5	3602.5	3576.8	3584.0	3595.2
57.5°	3440.9	3467.5	3534.4	3641.8	3752.2	3871.8	3973.1	4048.7	4080.9	4129.4	4118.2
60°	3257.9	3300.3	3398.9	3556.8	3775.1	4024.6	4292.0	4553.1	4776.1	4944.4	4847.7
62.5°	2667.3	2722.7	2842.2	3044.6	3374.9	3774.1	4285.9	4903.4	5576.0	5982.1	5692.1
65°	1669.1	1726.4	1848.0	2064.8	2451.1	2947.6	3641.8	4665.2	5922.2	6534.1	5944.2
67.5°	650.7	682.0	747.8	886.4	1176.8	1618.4	2315.2	3476.6	4980.1	5516.3	4887.5
70°	326.2	329.1	341.4	367.0	429.4	557.7	848.5	1611.7	2856.0	3449.5	2753.2
72.5°	235.6	236.2	242.4	253.5	273.4	302.1	357.3	493.3	928.8	1419.6	870.5
75°	180.5	182.4	186.0	192.1	202.9	217.3	237.2	284.3	352.2	408.5	343.5
77.5°	139.1	143.1	145.6	151.4	157.9	167.7	173.4	191.2	222.4	234.1	230.5
80°	105.8	109.5	115.1	119.7	124.2	128.8	126.8	134.9	151.4	161.1	155.9
82.5°	67.6	71.5	87.9	92.0	94.1	97.1	93.6	94.1	101.1	107.3	101.1
85°	43.5	46.1	55.8	60.8	61.4	63.4	61.9	58.3	58.3	53.2	59.7
87.5°	19.9	20.4	25.1	29.6	30.7	27.6	27.0	26.1	21.0	19.9	21.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0	1235.0
2.5°	1234.5	1235.6	1236.1	1237.7	1238.1	1238.1	1238.7	1239.7
5°	1244.2	1245.8	1246.3	1248.4	1248.9	1248.4	1249.4	1249.9
7.5°	1261.6	1264.2	1265.3	1267.2	1265.7	1267.8	1268.2	1268.2
10°	1287.2	1289.7	1290.2	1292.3	1291.3	1292.3	1292.3	1291.3
12.5°	1320.9	1321.4	1319.9	1321.4	1319.4	1320.4	1318.9	1317.9
15°	1358.2	1356.7	1353.1	1353.1	1350.1	1350.6	1350.1	1349.6
17.5°	1394.4	1391.5	1388.9	1387.9	1385.4	1384.8	1383.3	1383.3
20°	1434.5	1432.8	1431.3	1429.4	1426.8	1424.3	1423.6	1424.7
22.5°	1482.5	1481.9	1481.9	1480.9	1477.4	1474.7	1473.3	1473.3
25°	1546.9	1542.3	1542.3	1541.9	1540.2	1538.6	1535.7	1537.2
27.5°	1619.5	1616.9	1618.9	1618.4	1616.9	1616.9	1614.9	1614.9
30°	1708.9	1707.9	1710.9	1708.3	1703.2	1702.7	1700.8	1698.2
32.5°	1812.2	1811.2	1815.7	1812.7	1804.5	1799.9	1795.8	1793.7
35°	1927.3	1927.8	1933.3	1931.3	1922.2	1919.0	1911.9	1910.9
37.5°	2052.9	2061.2	2070.9	2072.8	2065.3	2063.1	2055.5	2051.4
40°	2200.7	2211.4	2226.3	2229.9	2221.7	2220.2	2209.4	2203.7
42.5°	2358.1	2376.6	2394.9	2398.0	2389.9	2381.6	2371.4	2367.4
45°	2533.9	2555.9	2580.0	2586.1	2573.9	2564.1	2550.8	2550.8
47.5°	2731.2	2759.0	2786.1	2802.9	2791.7	2781.4	2765.5	2755.3
50°	2964.3	3002.2	3037.4	3054.9	3037.0	3017.5	2990.0	2980.8
52.5°	3256.9	3297.7	3328.4	3319.1	3291.6	3264.5	3234.3	3222.0
55°	3630.1	3643.7	3643.7	3609.0	3553.9	3508.3	3460.8	3444.9
57.5°	4096.7	4043.5	3961.7	3858.0	3727.6	3614.2	3537.4	3501.1
60°	4645.2	4389.6	4100.9	3817.1	3584.0	3391.8	3277.7	3225.6
62.5°	5010.7	4342.0	3763.4	3307.9	2972.6	2741.0	2583.5	2522.3
65°	4683.0	3621.2	2846.3	2301.4	1935.8	1700.2	1544.4	1487.1
67.5°	3430.1	2269.2	1515.7	1086.3	795.9	634.9	571.1	544.5
70°	1539.8	799.0	489.8	382.4	329.7	302.5	291.0	286.7
72.5°	464.2	335.8	283.1	255.6	234.6	221.3	211.6	210.7
75°	280.1	233.1	207.0	190.7	177.3	166.6	161.5	160.0
77.5°	195.8	171.2	159.0	147.2	137.0	128.8	124.2	120.6
80°	137.5	125.8	120.2	113.5	106.9	99.2	92.5	89.4
82.5°	92.0	89.4	89.4	85.3	79.8	72.7	59.3	56.2
85°	59.3	58.7	59.7	58.3	54.2	46.5	38.4	36.3
87.5°	27.6	28.0	31.3	30.7	29.6	24.6	19.5	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)