

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: P191631

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191631
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 12351 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

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

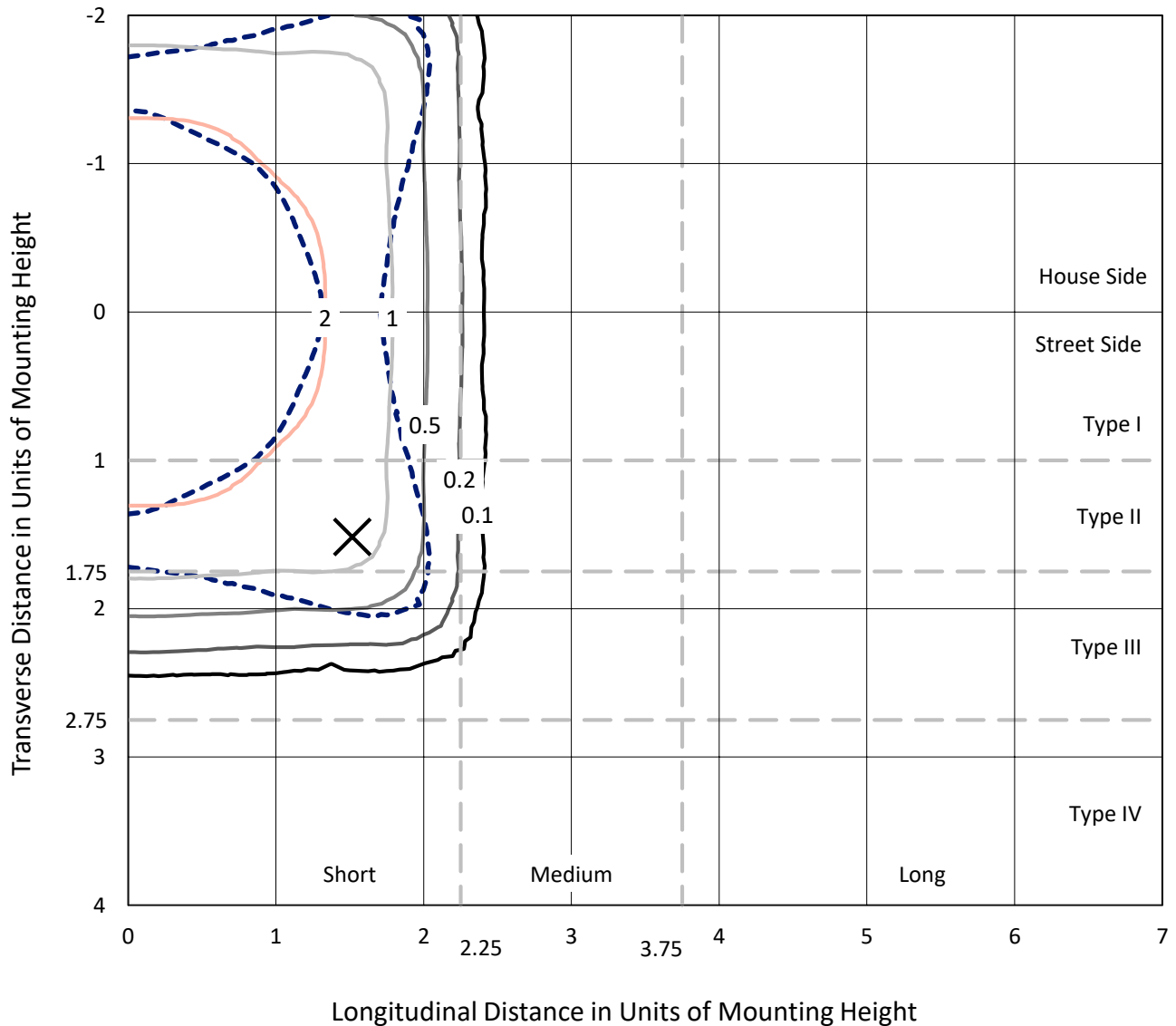


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

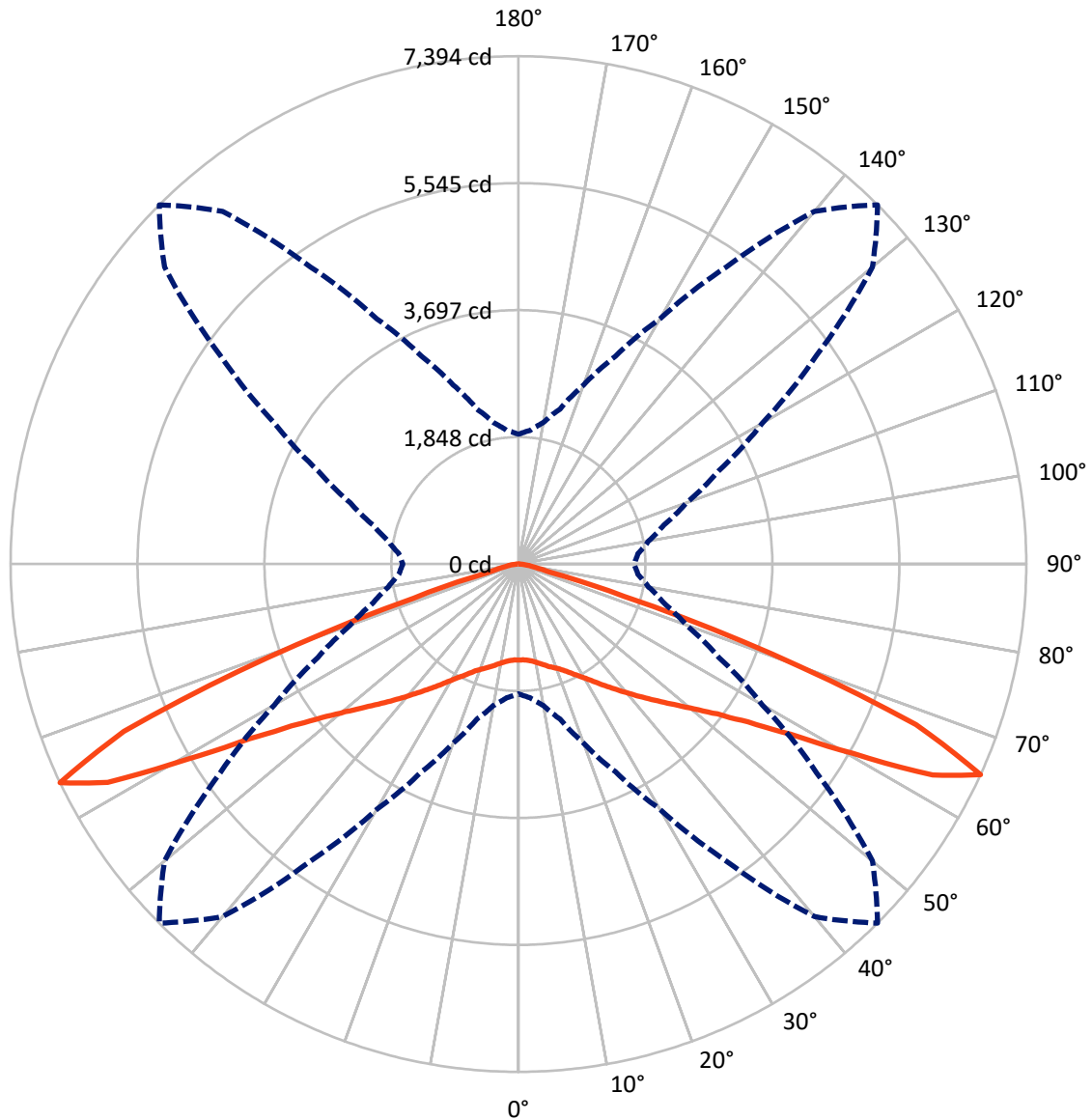


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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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	6175.5	0.0	6175.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6175.5	0.0	6175.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12351.0	0.0	12351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	1.1
10°-20°	436.9	3.5
20°-30°	816.8	6.6
30°-40°	1381.5	11.2
40°-50°	2258.9	18.3
50°-60°	3592.0	29.1
60°-70°	3247.0	26.3
70°-80°	410.9	3.3
80°-90°	70.7	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°	12351.0	100.0
0°-180°	12351.0	100.0

Coefficient of Utilization



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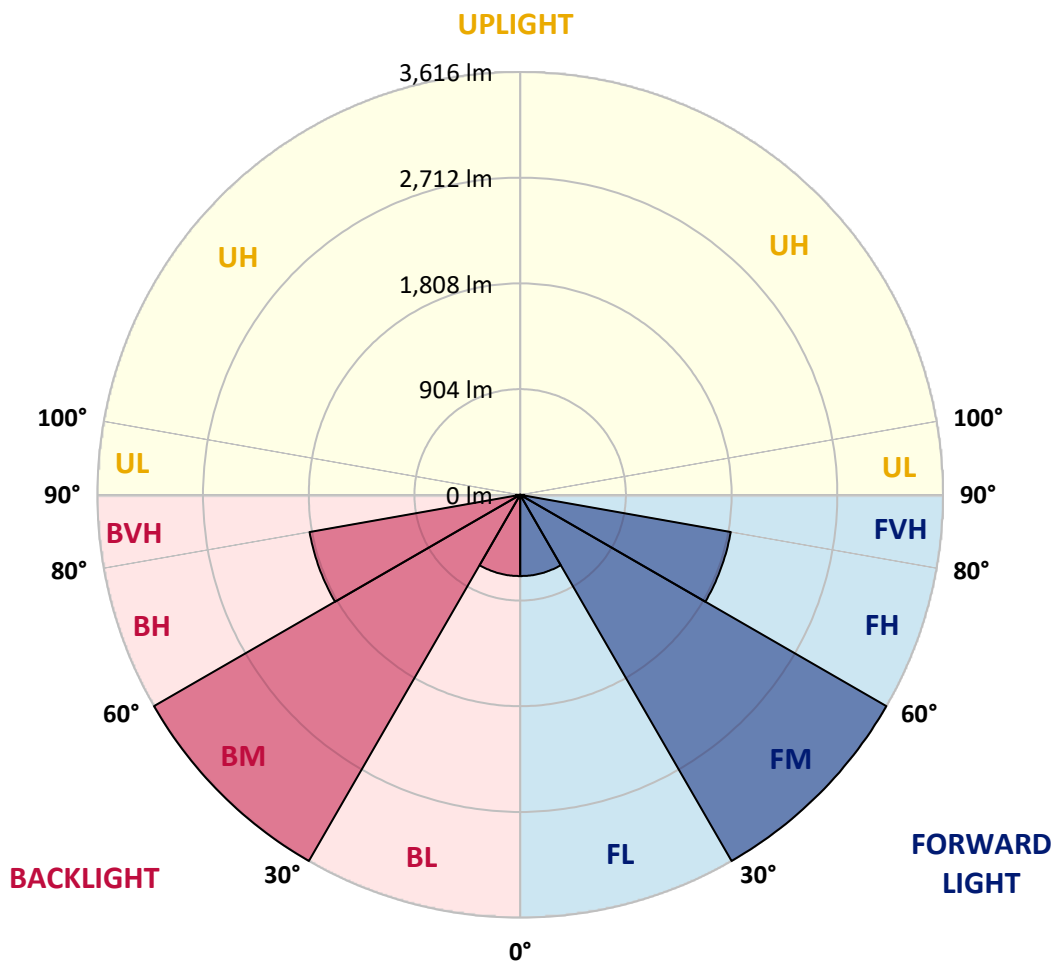
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.0	5.6			
FM	(30°-60°)	3616.2	29.3			
FH	(60°-80°)	1828.9	14.8			G2/5000
FVH	(80°-90°)	35.3	0.3			G1/100
BL	(0°-30°)	695.0	5.6	B2/1000		
BM	(30°-60°)	3616.2	29.3	B3/5000		
BH	(60°-80°)	1828.9	14.8	B3/2500		G2/5000
BVH	(80°-90°)	35.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1398.7	1399.8	1401.0	1399.8	1401.0	1399.3	1398.1	1399.8	1398.1	1396.4	1397.5
5°	1410.8	1411.4	1411.4	1409.7	1411.4	1410.2	1408.5	1410.8	1409.1	1407.4	1408.5
7.5°	1431.1	1433.4	1431.7	1429.9	1431.1	1429.9	1428.8	1429.3	1428.8	1427.0	1427.6
10°	1458.3	1460.0	1458.8	1458.3	1459.4	1458.8	1457.7	1457.1	1457.7	1455.9	1455.9
12.5°	1491.2	1490.7	1490.1	1490.7	1492.4	1492.4	1491.8	1492.4	1493.5	1494.1	1493.0
15°	1523.6	1524.8	1524.8	1524.8	1528.3	1531.1	1532.9	1534.0	1536.3	1536.9	1534.6
17.5°	1564.1	1564.1	1563.5	1564.1	1567.6	1572.2	1573.9	1576.3	1578.6	1580.3	1577.4
20°	1609.2	1610.4	1610.4	1611.5	1616.2	1621.4	1621.4	1622.5	1621.4	1622.5	1620.8
22.5°	1664.2	1667.7	1667.7	1668.2	1672.9	1679.2	1677.5	1679.2	1676.3	1678.6	1676.3
25°	1735.9	1741.1	1740.0	1740.0	1743.4	1747.5	1748.1	1751.5	1751.0	1753.8	1752.1
27.5°	1816.9	1825.0	1827.3	1826.7	1829.0	1833.1	1834.2	1838.3	1836.0	1838.3	1837.1
30°	1914.1	1917.5	1922.2	1923.9	1926.8	1930.8	1930.8	1931.4	1928.5	1932.0	1933.7
32.5°	2014.7	2021.1	2025.7	2036.1	2041.3	2044.2	2043.6	2044.8	2041.9	2046.5	2050.0
35°	2147.8	2152.4	2159.9	2168.0	2175.0	2174.4	2172.6	2173.2	2173.2	2177.3	2180.7
37.5°	2308.0	2309.2	2319.0	2330.6	2334.0	2330.6	2320.1	2317.8	2312.6	2317.8	2323.6
40°	2477.5	2481.5	2501.2	2508.7	2510.4	2504.1	2489.0	2480.4	2468.8	2475.2	2483.3
42.5°	2655.1	2663.2	2681.1	2694.4	2700.2	2696.1	2675.3	2662.0	2647.0	2650.4	2658.5
45°	2851.7	2861.6	2887.0	2899.7	2910.7	2904.4	2884.1	2863.9	2840.2	2841.9	2854.6
47.5°	3071.5	3081.4	3114.3	3135.7	3141.5	3140.4	3117.8	3090.1	3057.7	3056.5	3067.5
50°	3318.0	3327.8	3368.9	3401.8	3418.6	3416.9	3390.3	3350.9	3311.6	3312.2	3326.1
52.5°	3558.6	3570.7	3613.5	3670.2	3703.2	3726.9	3710.7	3673.7	3625.7	3626.8	3639.6
55°	3784.2	3804.4	3853.6	3930.5	3991.8	4058.4	4077.5	4076.3	4047.4	4055.5	4068.2
57.5°	3893.5	3923.6	3999.4	4120.8	4245.8	4381.1	4495.7	4581.3	4617.7	4672.7	4660.0
60°	3686.4	3734.4	3846.1	4024.8	4271.8	4554.1	4856.6	5152.2	5404.4	5594.7	5485.4
62.5°	3018.3	3080.8	3216.2	3445.2	3818.9	4270.7	4849.7	5548.4	6309.7	6769.0	6441.0
65°	1888.6	1953.4	2091.1	2336.3	2773.6	3335.3	4120.8	5278.9	6701.3	7393.7	6726.2
67.5°	736.4	771.6	846.3	1003.0	1331.6	1831.4	2619.8	3934.0	5635.2	6242.0	5530.5
70°	369.0	372.5	386.4	415.3	485.9	631.1	960.2	1823.8	3231.8	3903.3	3115.5
72.5°	266.7	267.2	274.2	286.9	309.5	341.9	404.3	558.2	1051.0	1606.3	985.1
75°	204.2	206.5	210.6	217.5	229.6	245.8	268.4	321.6	398.5	462.2	388.7
77.5°	157.3	162.0	164.9	171.2	178.7	189.7	196.1	216.3	251.6	264.9	260.9
80°	119.7	123.8	130.2	135.4	140.6	145.8	143.5	152.7	171.2	182.2	176.4
82.5°	76.4	81.0	99.5	104.1	106.4	109.9	105.9	106.4	114.5	121.5	114.5
85°	49.2	52.1	63.1	68.8	69.4	71.7	70.0	65.9	65.9	60.2	67.7
87.5°	22.6	23.1	28.3	33.5	34.7	31.2	30.7	29.5	23.7	22.6	24.3
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°	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1396.9	1398.1	1398.7	1400.4	1401.0	1401.0	1401.6	1402.7
5°	1407.9	1409.7	1410.2	1412.6	1413.1	1412.6	1413.7	1414.3
7.5°	1427.6	1430.5	1431.7	1434.0	1432.2	1434.5	1435.1	1435.1
10°	1456.5	1459.4	1460.0	1462.3	1461.2	1462.3	1462.3	1461.2
12.5°	1494.7	1495.3	1493.5	1495.3	1493.0	1494.1	1492.4	1491.2
15°	1536.9	1535.2	1531.1	1531.1	1527.7	1528.3	1527.7	1527.1
17.5°	1578.0	1574.5	1571.6	1570.5	1567.6	1567.0	1565.3	1565.3
20°	1623.1	1621.4	1619.6	1617.3	1614.4	1611.5	1611.0	1612.1
22.5°	1677.5	1676.9	1676.9	1675.8	1671.7	1668.8	1667.1	1667.1
25°	1750.4	1745.2	1745.2	1744.6	1742.9	1741.1	1737.6	1739.4
27.5°	1832.5	1829.6	1831.9	1831.4	1829.6	1829.6	1827.3	1827.3
30°	1933.7	1932.6	1936.1	1933.2	1927.4	1926.8	1924.5	1921.6
32.5°	2050.6	2049.4	2054.6	2051.2	2041.9	2036.7	2032.1	2029.8
35°	2180.7	2181.3	2187.7	2185.4	2175.0	2171.5	2163.4	2162.2
37.5°	2323.0	2332.3	2343.3	2345.6	2336.9	2334.6	2325.9	2321.3
40°	2490.2	2502.4	2519.1	2523.2	2513.9	2512.2	2500.0	2493.7
42.5°	2668.4	2689.2	2710.0	2713.5	2704.2	2695.0	2683.4	2678.8
45°	2867.4	2892.2	2919.4	2926.4	2912.5	2901.5	2886.4	2886.4
47.5°	3090.6	3121.9	3152.5	3171.6	3158.9	3147.3	3129.4	3117.8
50°	3354.4	3397.2	3437.1	3456.8	3436.5	3414.6	3383.3	3372.9
52.5°	3685.3	3731.5	3766.3	3755.8	3724.6	3693.9	3659.8	3645.9
55°	4107.5	4123.2	4123.2	4083.8	4021.3	3969.9	3916.1	3898.1
57.5°	4635.7	4575.5	4482.9	4365.5	4218.0	4089.6	4002.8	3961.8
60°	5256.3	4967.1	4640.3	4319.2	4055.5	3838.0	3709.0	3650.0
62.5°	5669.9	4913.3	4258.5	3743.1	3363.7	3101.6	2923.5	2854.0
65°	5299.1	4097.7	3220.8	2604.2	2190.6	1923.9	1747.5	1682.7
67.5°	3881.4	2567.7	1715.1	1229.2	900.6	718.4	646.1	616.0
70°	1742.3	904.1	554.1	432.7	373.1	342.4	329.1	324.5
72.5°	525.2	380.0	320.5	289.2	265.5	250.5	239.5	238.3
75°	317.0	263.8	234.3	215.8	200.7	188.6	182.8	181.1
77.5°	221.5	193.8	179.9	166.6	155.0	145.8	140.6	136.5
80°	155.6	142.3	135.9	128.4	120.9	112.2	104.7	101.2
82.5°	104.1	101.2	101.2	96.6	90.2	82.1	67.1	63.6
85°	67.1	66.5	67.7	65.9	61.3	52.6	43.4	41.1
87.5°	31.2	31.8	35.3	34.7	33.5	27.8	22.0	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)