

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: P191650

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191650
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 12563 lumens
Efficiency: N/A
Efficacy: 111.2 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 - G2

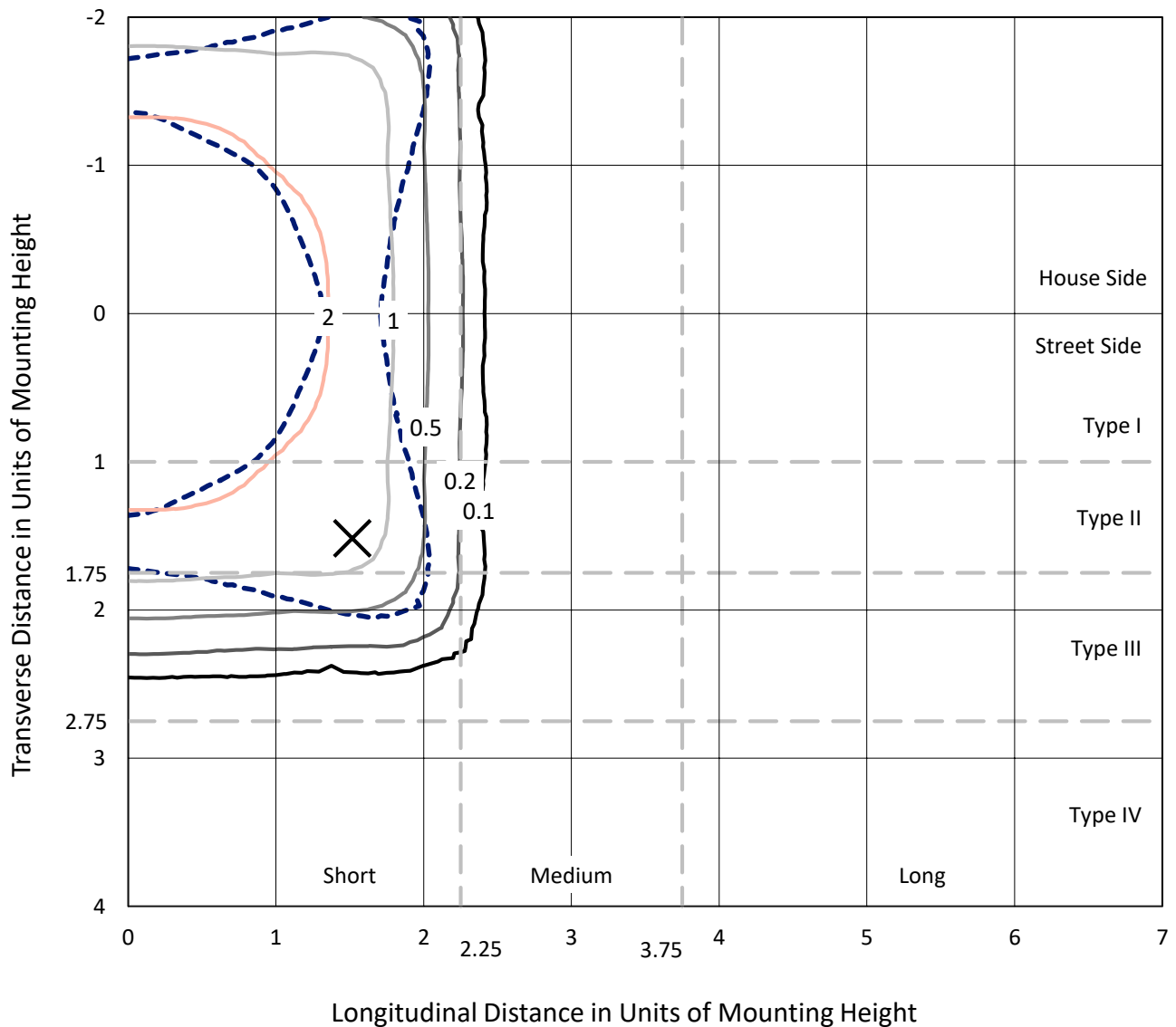
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

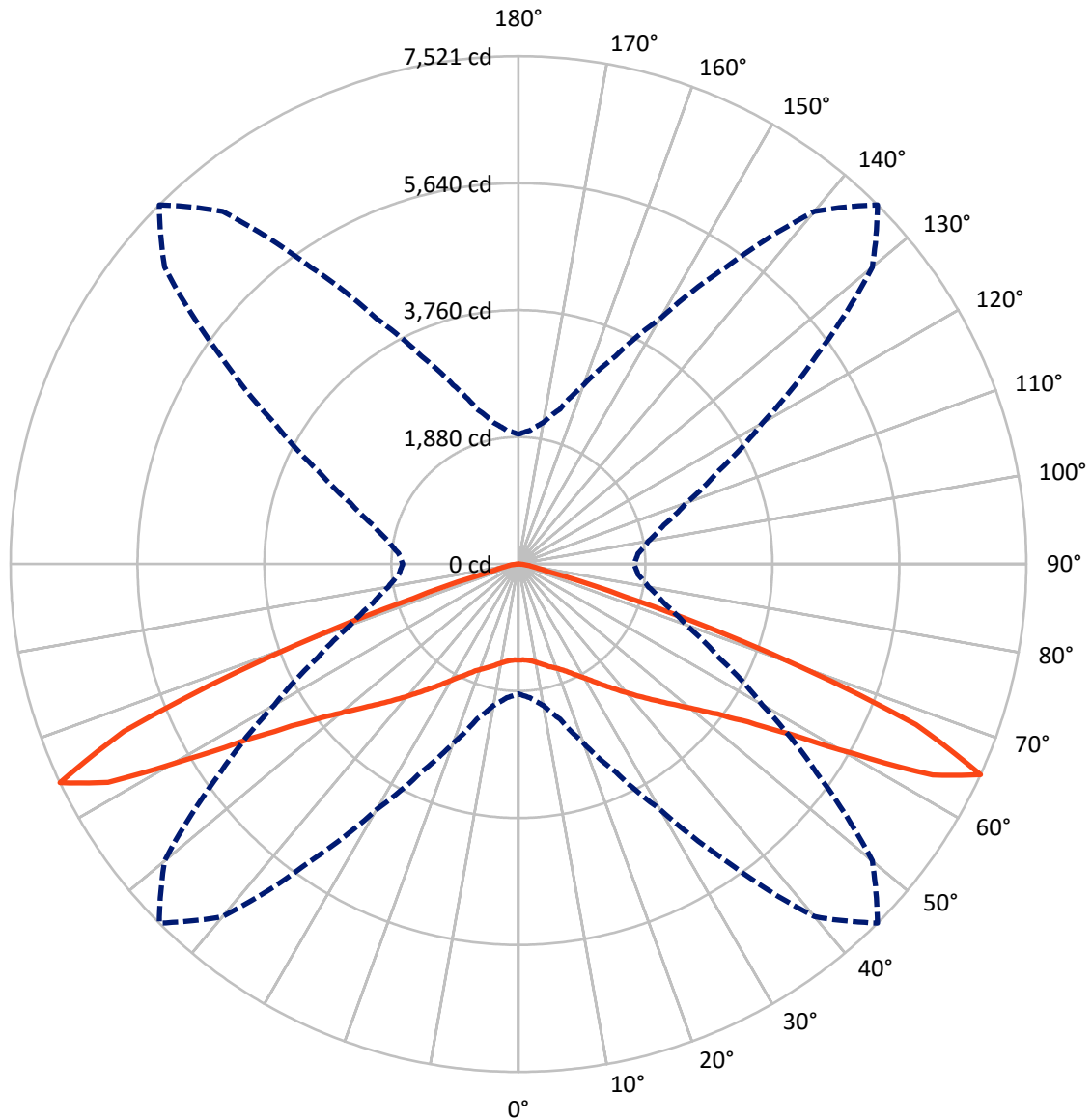
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	6281.5	0.0	6281.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6281.5	0.0	6281.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12563.0	0.0	12563.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.1
10°-20°	444.4	3.5
20°-30°	830.9	6.6
30°-40°	1405.2	11.2
40°-50°	2297.7	18.3
50°-60°	3653.7	29.1
60°-70°	3302.7	26.3
70°-80°	418.0	3.3
80°-90°	71.9	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°	12563.0	100.0
0°-180°	12563.0	100.0



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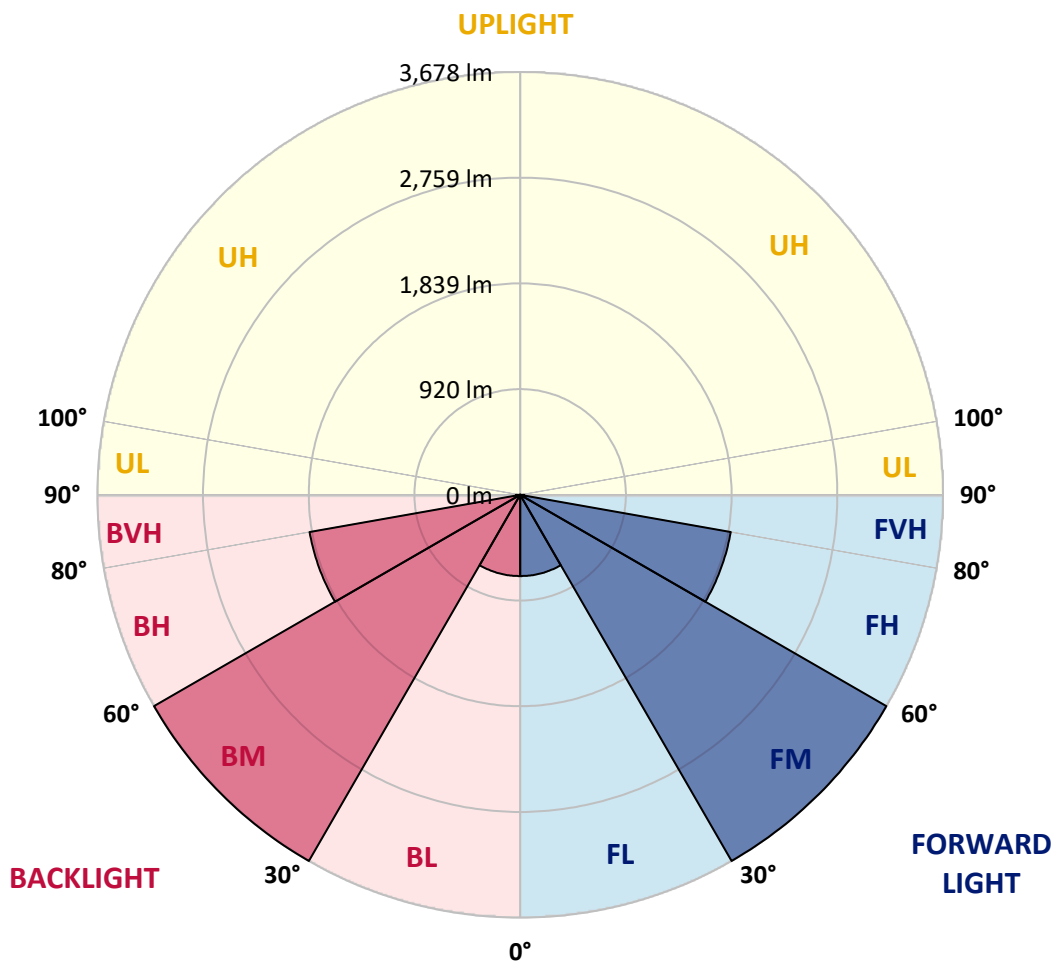
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.9	5.6			
FM	(30°-60°)	3678.3	29.3			
FH	(60°-80°)	1860.3	14.8			G2/5000
FVH	(80°-90°)	36.0	0.3			G1/100
BL	(0°-30°)	706.9	5.6	B2/1000		
BM	(30°-60°)	3678.3	29.3	B3/5000		
BH	(60°-80°)	1860.3	14.8	B3/2500		G2/5000
BVH	(80°-90°)	36.0	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°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1422.7	1423.9	1425.0	1423.9	1425.0	1423.3	1422.1	1423.9	1422.1	1420.3	1421.5
5°	1435.0	1435.6	1435.6	1433.9	1435.6	1434.5	1432.7	1435.0	1433.3	1431.5	1432.7
7.5°	1455.6	1458.0	1456.2	1454.5	1455.6	1454.5	1453.3	1453.9	1453.3	1451.5	1452.1
10°	1483.3	1485.1	1483.9	1483.3	1484.5	1483.9	1482.7	1482.1	1482.7	1480.9	1480.9
12.5°	1516.8	1516.2	1515.6	1516.2	1518.0	1518.0	1517.4	1518.0	1519.2	1519.8	1518.6
15°	1549.8	1551.0	1551.0	1551.0	1554.5	1557.4	1559.2	1560.4	1562.7	1563.3	1561.0
17.5°	1591.0	1591.0	1590.4	1591.0	1594.5	1599.2	1601.0	1603.3	1605.7	1607.4	1604.5
20°	1636.9	1638.0	1638.0	1639.2	1643.9	1649.2	1649.2	1650.4	1649.2	1650.4	1648.6
22.5°	1692.8	1696.3	1696.3	1696.9	1701.6	1708.0	1706.3	1708.0	1705.1	1707.5	1705.1
25°	1765.7	1771.0	1769.8	1769.8	1773.4	1777.5	1778.1	1781.6	1781.0	1783.9	1782.2
27.5°	1848.1	1856.3	1858.7	1858.1	1860.4	1864.6	1865.7	1869.9	1867.5	1869.9	1868.7
30°	1946.9	1950.5	1955.2	1956.9	1959.9	1964.0	1964.0	1964.6	1961.6	1965.2	1966.9
32.5°	2049.3	2055.8	2060.5	2071.1	2076.4	2079.3	2078.7	2079.9	2077.0	2081.7	2085.2
35°	2184.6	2189.3	2197.0	2205.2	2212.3	2211.7	2209.9	2210.5	2210.5	2214.6	2218.2
37.5°	2347.6	2348.8	2358.8	2370.6	2374.1	2370.6	2360.0	2357.6	2352.3	2357.6	2363.5
40°	2520.0	2524.1	2544.1	2551.8	2553.5	2547.1	2531.8	2522.9	2511.2	2517.6	2525.9
42.5°	2700.6	2708.9	2727.1	2740.6	2746.5	2742.4	2721.2	2707.7	2692.4	2695.9	2704.2
45°	2900.7	2910.7	2936.6	2949.5	2960.7	2954.2	2933.6	2913.0	2888.9	2890.7	2903.6
47.5°	3124.3	3134.3	3167.8	3189.6	3195.5	3194.3	3171.3	3143.1	3110.1	3109.0	3120.1
50°	3374.9	3384.9	3426.7	3460.2	3477.3	3475.5	3448.5	3408.4	3368.4	3369.0	3383.1
52.5°	3619.7	3632.0	3675.6	3733.2	3766.8	3790.9	3774.4	3736.8	3687.9	3689.1	3702.0
55°	3849.1	3869.7	3919.7	3998.0	4060.4	4128.0	4147.4	4146.3	4116.8	4125.1	4138.0
57.5°	3960.3	3990.9	4068.0	4191.6	4318.7	4456.3	4572.8	4659.9	4697.0	4752.9	4739.9
60°	3749.7	3798.5	3912.1	4093.9	4345.1	4632.3	4940.0	5240.6	5497.2	5690.7	5579.5
62.5°	3070.1	3133.7	3271.4	3504.4	3884.4	4344.0	4932.9	5643.7	6418.0	6885.1	6551.5
65°	1921.0	1986.9	2127.0	2376.4	2821.3	3392.6	4191.6	5369.5	6816.3	7520.6	6841.6
67.5°	749.0	784.9	860.8	1020.2	1354.4	1862.8	2664.7	4001.5	5731.9	6349.1	5625.4
70°	375.4	378.9	393.0	422.5	494.2	641.9	976.7	1855.1	3287.2	3970.3	3169.0
72.5°	271.2	271.8	278.9	291.8	314.8	347.7	411.3	567.8	1069.1	1633.9	1002.0
75°	207.7	210.0	214.2	221.2	233.6	250.1	273.0	327.1	405.4	470.1	395.4
77.5°	160.0	164.7	167.7	174.2	181.8	193.0	199.5	220.1	255.9	269.5	265.4
80°	121.8	125.9	132.4	137.7	143.0	148.3	145.9	155.3	174.2	185.3	179.5
82.5°	77.7	82.4	101.2	105.9	108.3	111.8	107.7	108.3	116.5	123.6	116.5
85°	50.0	53.0	64.1	70.0	70.6	73.0	71.2	67.1	67.1	61.2	68.8
87.5°	22.9	23.5	28.8	34.1	35.3	31.8	31.2	30.0	24.1	22.9	24.7
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°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1420.9	1422.1	1422.7	1424.5	1425.0	1425.0	1425.6	1426.8
5°	1432.1	1433.9	1434.5	1436.8	1437.4	1436.8	1438.0	1438.6
7.5°	1452.1	1455.0	1456.2	1458.6	1456.8	1459.2	1459.8	1459.8
10°	1481.5	1484.5	1485.1	1487.4	1486.2	1487.4	1487.4	1486.2
12.5°	1520.4	1520.9	1519.2	1520.9	1518.6	1519.8	1518.0	1516.8
15°	1563.3	1561.5	1557.4	1557.4	1553.9	1554.5	1553.9	1553.3
17.5°	1605.1	1601.6	1598.6	1597.4	1594.5	1593.9	1592.1	1592.1
20°	1651.0	1649.2	1647.4	1645.1	1642.2	1639.2	1638.6	1639.8
22.5°	1706.3	1705.7	1705.7	1704.5	1700.4	1697.5	1695.7	1695.7
25°	1780.4	1775.1	1775.1	1774.5	1772.8	1771.0	1767.5	1769.2
27.5°	1864.0	1861.0	1863.4	1862.8	1861.0	1861.0	1858.7	1858.7
30°	1966.9	1965.8	1969.3	1966.3	1960.5	1959.9	1957.5	1954.6
32.5°	2085.8	2084.6	2089.9	2086.4	2077.0	2071.7	2067.0	2064.6
35°	2218.2	2218.8	2225.2	2222.9	2212.3	2208.8	2200.5	2199.3
37.5°	2362.9	2372.3	2383.5	2385.9	2377.0	2374.7	2365.8	2361.1
40°	2532.9	2545.3	2562.4	2566.5	2557.1	2555.3	2542.9	2536.5
42.5°	2714.2	2735.3	2756.5	2760.1	2750.6	2741.2	2729.5	2724.8
45°	2916.6	2941.9	2969.5	2976.6	2962.5	2951.3	2936.0	2936.0
47.5°	3143.7	3175.5	3206.6	3226.1	3213.1	3201.3	3183.1	3171.3
50°	3412.0	3455.5	3496.1	3516.1	3495.5	3473.2	3441.4	3430.8
52.5°	3748.5	3795.6	3830.9	3820.3	3788.5	3757.4	3722.6	3708.5
55°	4178.0	4193.9	4193.9	4153.9	4090.4	4038.0	3983.3	3965.0
57.5°	4715.2	4654.0	4559.9	4440.5	4290.4	4159.8	4071.5	4029.8
60°	5346.5	5052.4	4719.9	4393.4	4125.1	3903.9	3772.7	3712.6
62.5°	5767.2	4997.6	4331.6	3807.4	3421.4	3154.9	2973.6	2903.0
65°	5390.1	4168.0	3276.1	2648.9	2228.2	1956.9	1777.5	1711.6
67.5°	3948.0	2611.8	1744.5	1250.3	916.1	730.8	657.2	626.6
70°	1772.2	919.6	563.7	440.1	379.5	348.3	334.8	330.1
72.5°	534.2	386.6	326.0	294.2	270.1	254.8	243.6	242.4
75°	322.4	268.3	238.3	219.5	204.2	191.8	185.9	184.2
77.5°	225.3	197.1	183.0	169.5	157.7	148.3	143.0	138.9
80°	158.3	144.7	138.3	130.6	123.0	114.1	106.5	103.0
82.5°	105.9	103.0	103.0	98.3	91.8	83.5	68.3	64.7
85°	68.3	67.7	68.8	67.1	62.4	53.5	44.1	41.8
87.5°	31.8	32.4	35.9	35.3	34.1	28.2	22.4	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)