

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: P192590

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192590
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 12150.7 lumens
Efficiency: N/A
Efficacy: 107.5 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

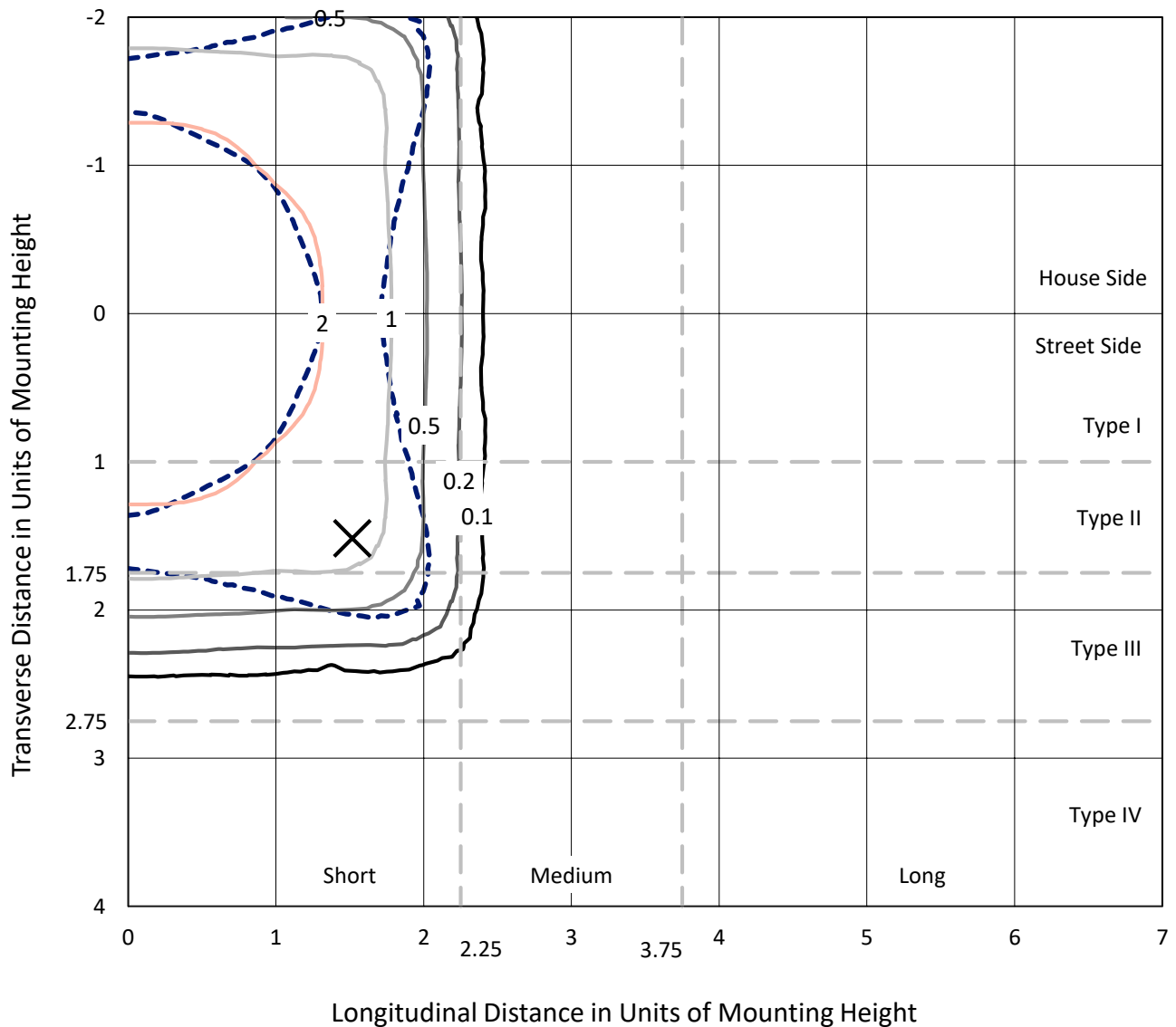
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

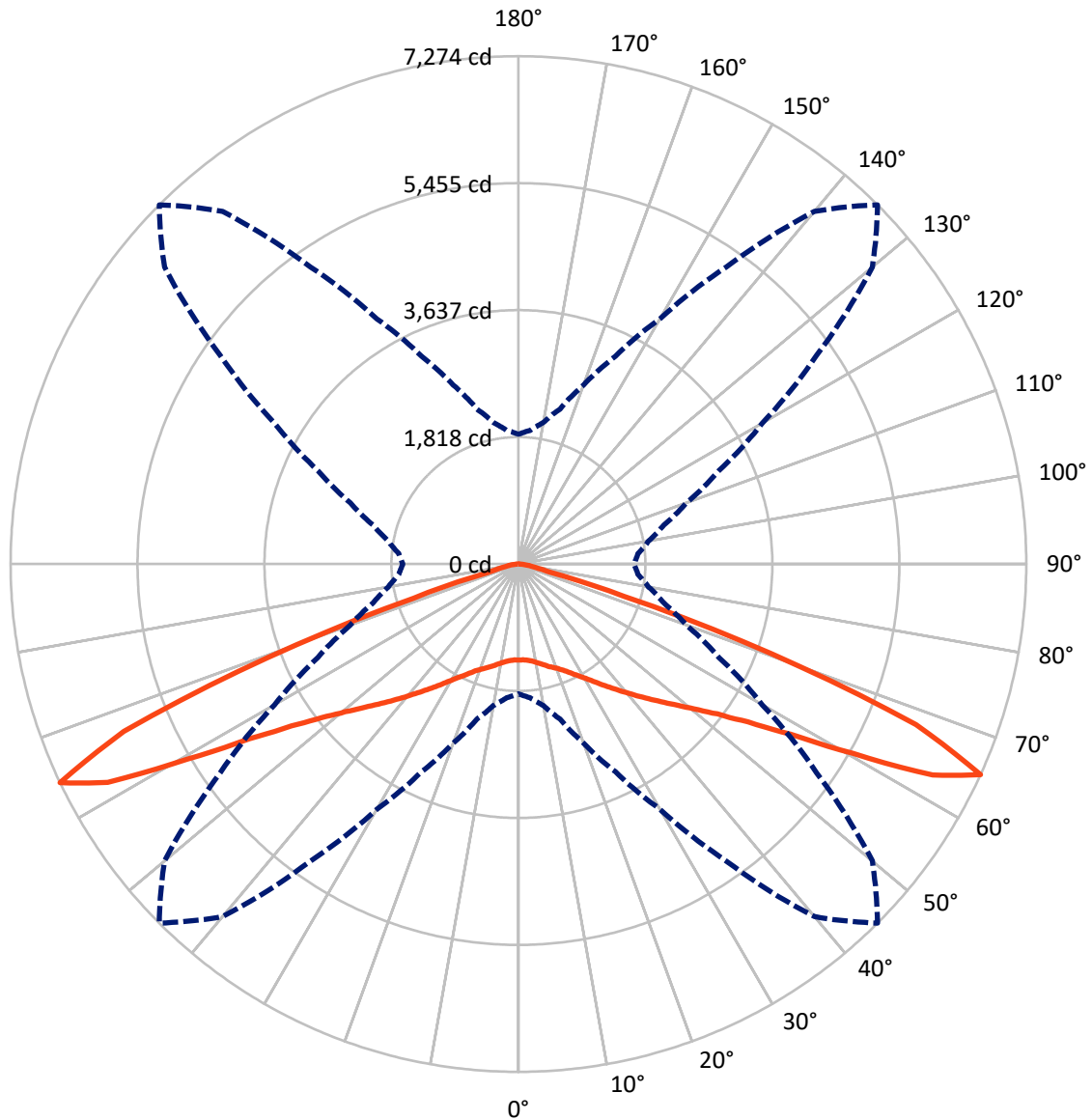
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6075.4	0.0	6075.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6075.4	0.0	6075.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12150.7	0.0	12150.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	1.1
10°-20°	429.8	3.5
20°-30°	803.6	6.6
30°-40°	1359.1	11.2
40°-50°	2222.3	18.3
50°-60°	3533.8	29.1
60°-70°	3194.3	26.3
70°-80°	404.3	3.3
80°-90°	69.5	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°	12150.7	100.0
0°-180°	12150.7	100.0



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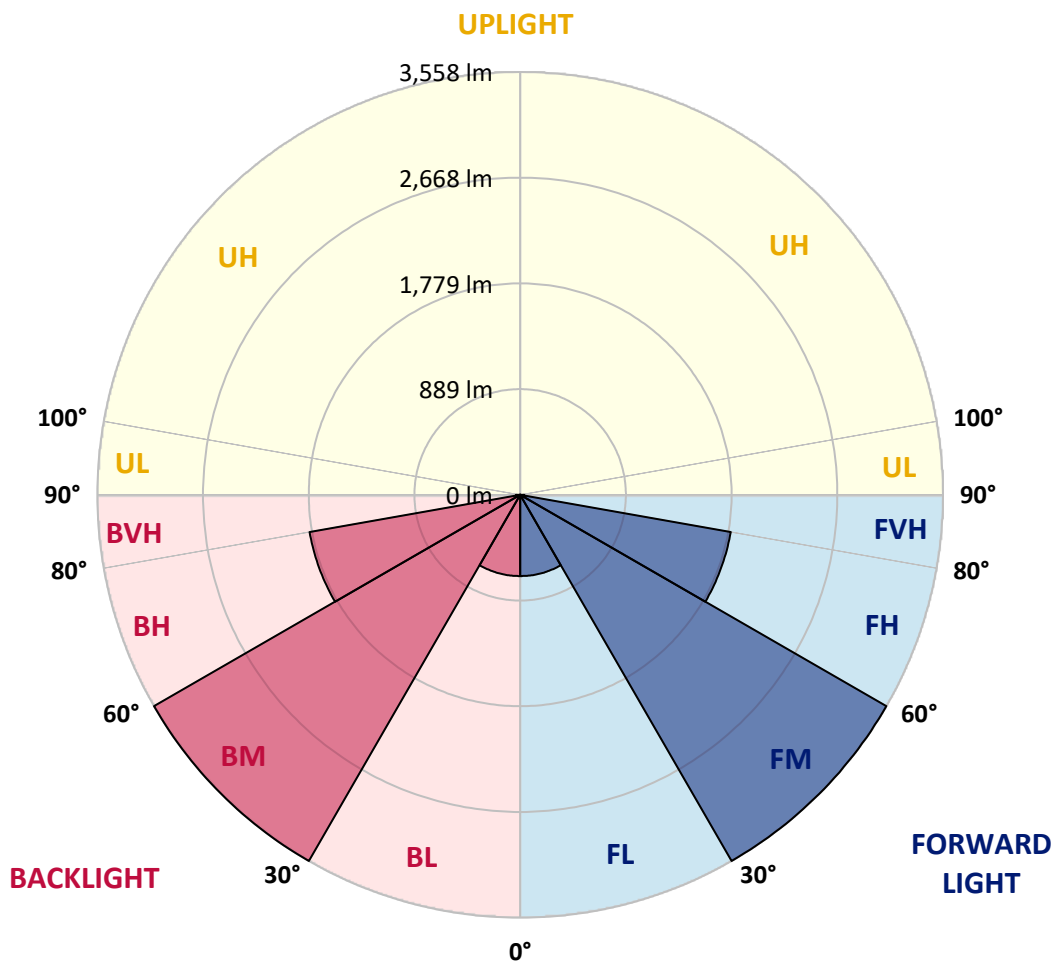
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.7	5.6			
FM	(30°-60°)	3557.6	29.3			
FH	(60°-80°)	1799.3	14.8			G1/1800
FVH	(80°-90°)	34.8	0.3			G1/100
BL	(0°-30°)	683.7	5.6	B2/1000		
BM	(30°-60°)	3557.6	29.3	B3/5000		
BH	(60°-80°)	1799.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	34.8	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°	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8
2.5°	1376.0	1377.1	1378.3	1377.1	1378.3	1376.5	1375.5	1377.1	1375.5	1373.7	1374.8
5°	1387.9	1388.4	1388.4	1386.8	1388.4	1387.4	1385.6	1387.9	1386.3	1384.6	1385.6
7.5°	1408.0	1410.1	1408.5	1406.7	1408.0	1406.7	1405.6	1406.1	1405.6	1403.9	1404.4
10°	1434.6	1436.3	1435.2	1434.6	1435.7	1435.2	1434.0	1433.5	1434.0	1432.4	1432.4
12.5°	1467.1	1466.5	1465.9	1466.5	1468.2	1468.2	1467.6	1468.2	1469.3	1469.9	1468.8
15°	1498.9	1500.0	1500.0	1500.0	1503.5	1506.3	1508.0	1509.2	1511.4	1512.0	1509.8
17.5°	1538.7	1538.7	1538.2	1538.7	1542.2	1546.7	1548.4	1550.7	1553.0	1554.6	1551.8
20°	1583.1	1584.3	1584.3	1585.5	1589.9	1595.0	1595.0	1596.3	1595.0	1596.3	1594.5
22.5°	1637.2	1640.6	1640.6	1641.2	1645.8	1652.0	1650.3	1652.0	1649.2	1651.5	1649.2
25°	1707.7	1712.8	1711.8	1711.8	1715.2	1719.2	1719.7	1723.1	1722.6	1725.4	1723.7
27.5°	1787.5	1795.3	1797.7	1797.1	1799.4	1803.4	1804.5	1808.5	1806.2	1808.5	1807.3
30°	1883.1	1886.5	1891.0	1892.7	1895.5	1899.6	1899.6	1900.1	1897.3	1900.7	1902.4
32.5°	1982.1	1988.3	1992.9	2003.2	2008.1	2011.0	2010.5	2011.7	2008.8	2013.3	2016.8
35°	2113.0	2117.5	2124.9	2132.8	2139.8	2139.1	2137.4	2137.9	2137.9	2141.9	2145.5
37.5°	2270.5	2271.7	2281.4	2292.8	2296.2	2292.8	2282.5	2280.2	2275.1	2280.2	2285.9
40°	2437.3	2441.3	2460.6	2468.0	2469.7	2463.5	2448.7	2440.2	2428.8	2435.1	2443.0
42.5°	2612.1	2619.9	2637.6	2650.7	2656.4	2652.4	2631.9	2618.8	2604.0	2607.5	2615.4
45°	2805.4	2815.2	2840.2	2852.8	2863.5	2857.2	2837.4	2817.5	2794.1	2795.8	2808.3
47.5°	3021.8	3031.4	3063.8	3084.9	3090.6	3089.5	3067.2	3039.9	3008.1	3007.0	3017.7
50°	3264.1	3273.9	3314.3	3346.7	3363.2	3361.5	3335.2	3296.6	3257.9	3258.4	3272.1
52.5°	3500.8	3512.8	3555.0	3610.7	3643.1	3666.5	3650.6	3614.1	3566.9	3568.1	3580.5
55°	3722.8	3742.7	3791.1	3866.8	3927.1	3992.6	4011.4	4010.3	3981.7	3989.7	4002.2
57.5°	3830.4	3860.0	3934.5	4054.1	4177.0	4310.1	4422.9	4507.0	4542.9	4596.9	4584.4
60°	3626.7	3673.9	3783.7	3959.5	4202.5	4480.2	4777.9	5068.6	5316.8	5504.1	5396.5
62.5°	2969.3	3030.9	3164.0	3389.3	3757.0	4201.4	4771.1	5458.5	6207.3	6659.3	6336.5
65°	1858.0	1921.8	2057.2	2298.5	2728.6	3281.3	4054.1	5193.3	6592.6	7273.8	6617.1
67.5°	724.4	759.2	832.5	986.7	1310.0	1801.6	2577.3	3870.2	5543.9	6140.8	5440.8
70°	363.1	366.4	380.1	408.6	478.0	620.8	944.6	1794.2	3179.3	3840.0	3064.9
72.5°	262.3	262.9	269.8	282.2	304.4	336.3	397.8	549.1	1034.0	1580.3	969.1
75°	200.9	203.1	207.1	213.9	225.9	241.9	264.1	316.5	392.1	454.7	382.4
77.5°	154.8	159.3	162.1	168.5	175.8	186.7	193.0	212.8	247.6	260.6	256.6
80°	117.8	121.9	128.1	133.2	138.3	143.4	141.2	150.2	168.5	179.3	173.6
82.5°	75.2	79.6	97.9	102.4	104.7	108.1	104.2	104.7	112.6	119.5	112.6
85°	48.4	51.3	62.1	67.7	68.3	70.6	68.9	64.9	64.9	59.2	66.5
87.5°	22.2	22.7	27.9	33.0	34.2	30.7	30.1	29.1	23.4	22.2	23.9
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°	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8	1374.8
2.5°	1374.3	1375.5	1376.0	1377.8	1378.3	1378.3	1378.9	1380.0
5°	1385.1	1386.8	1387.4	1389.7	1390.3	1389.7	1390.8	1391.4
7.5°	1404.4	1407.3	1408.5	1410.7	1409.0	1411.3	1411.8	1411.8
10°	1432.9	1435.7	1436.3	1438.6	1437.5	1438.6	1438.6	1437.5
12.5°	1470.4	1471.0	1469.3	1471.0	1468.8	1469.9	1468.2	1467.1
15°	1512.0	1510.3	1506.3	1506.3	1502.9	1503.5	1502.9	1502.4
17.5°	1552.3	1549.0	1546.1	1545.0	1542.2	1541.6	1539.9	1539.9
20°	1596.9	1595.0	1593.3	1591.2	1588.3	1585.5	1584.8	1586.0
22.5°	1650.3	1649.7	1649.7	1648.6	1644.6	1641.7	1640.1	1640.1
25°	1722.0	1716.9	1716.9	1716.4	1714.6	1712.8	1709.5	1711.2
27.5°	1802.8	1799.9	1802.2	1801.6	1799.9	1799.9	1797.7	1797.7
30°	1902.4	1901.2	1904.6	1901.7	1896.0	1895.5	1893.3	1890.4
32.5°	2017.4	2016.2	2021.3	2017.9	2008.8	2003.7	1999.1	1996.8
35°	2145.5	2146.0	2152.2	2149.9	2139.8	2136.2	2128.3	2127.2
37.5°	2285.3	2294.5	2305.3	2307.5	2299.1	2296.7	2288.2	2283.6
40°	2449.8	2461.7	2478.3	2482.3	2473.2	2471.5	2459.5	2453.2
42.5°	2625.1	2645.6	2666.0	2669.5	2660.4	2651.2	2639.9	2635.4
45°	2820.8	2845.3	2872.1	2878.9	2865.3	2854.4	2839.6	2839.6
47.5°	3040.4	3071.3	3101.5	3120.2	3107.7	3096.3	3078.6	3067.2
50°	3299.9	3342.1	3381.3	3400.7	3380.8	3359.1	3328.5	3318.2
52.5°	3625.6	3671.0	3705.2	3694.9	3664.2	3634.1	3600.4	3586.8
55°	4041.0	4056.2	4056.2	4017.6	3956.2	3905.5	3852.6	3834.9
57.5°	4560.5	4501.3	4410.2	4294.8	4149.6	4023.3	3937.9	3897.5
60°	5171.1	4886.5	4565.1	4249.2	3989.7	3775.8	3648.8	3590.8
62.5°	5578.0	4833.6	4189.4	3682.4	3309.1	3051.3	2876.0	2807.8
65°	5213.2	4031.2	3168.5	2561.9	2155.0	1892.7	1719.2	1655.4
67.5°	3818.4	2526.1	1687.3	1209.3	886.0	706.8	635.7	606.1
70°	1714.1	889.5	545.2	425.7	367.0	336.8	323.9	319.2
72.5°	516.7	373.8	315.2	284.5	261.2	246.4	235.6	234.5
75°	311.8	259.5	230.4	212.3	197.4	185.5	179.8	178.1
77.5°	218.0	190.6	177.0	163.9	152.5	143.4	138.3	134.3
80°	153.1	140.0	133.8	126.3	119.0	110.4	103.0	99.5
82.5°	102.4	99.5	99.5	95.0	88.8	80.9	66.0	62.6
85°	66.0	65.4	66.5	64.9	60.3	51.8	42.7	40.4
87.5°	30.7	31.2	34.8	34.2	33.0	27.4	21.7	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)