

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: P192760

Luminaire Tested: **GAN-AF-02-LED-U-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13208.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 129
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

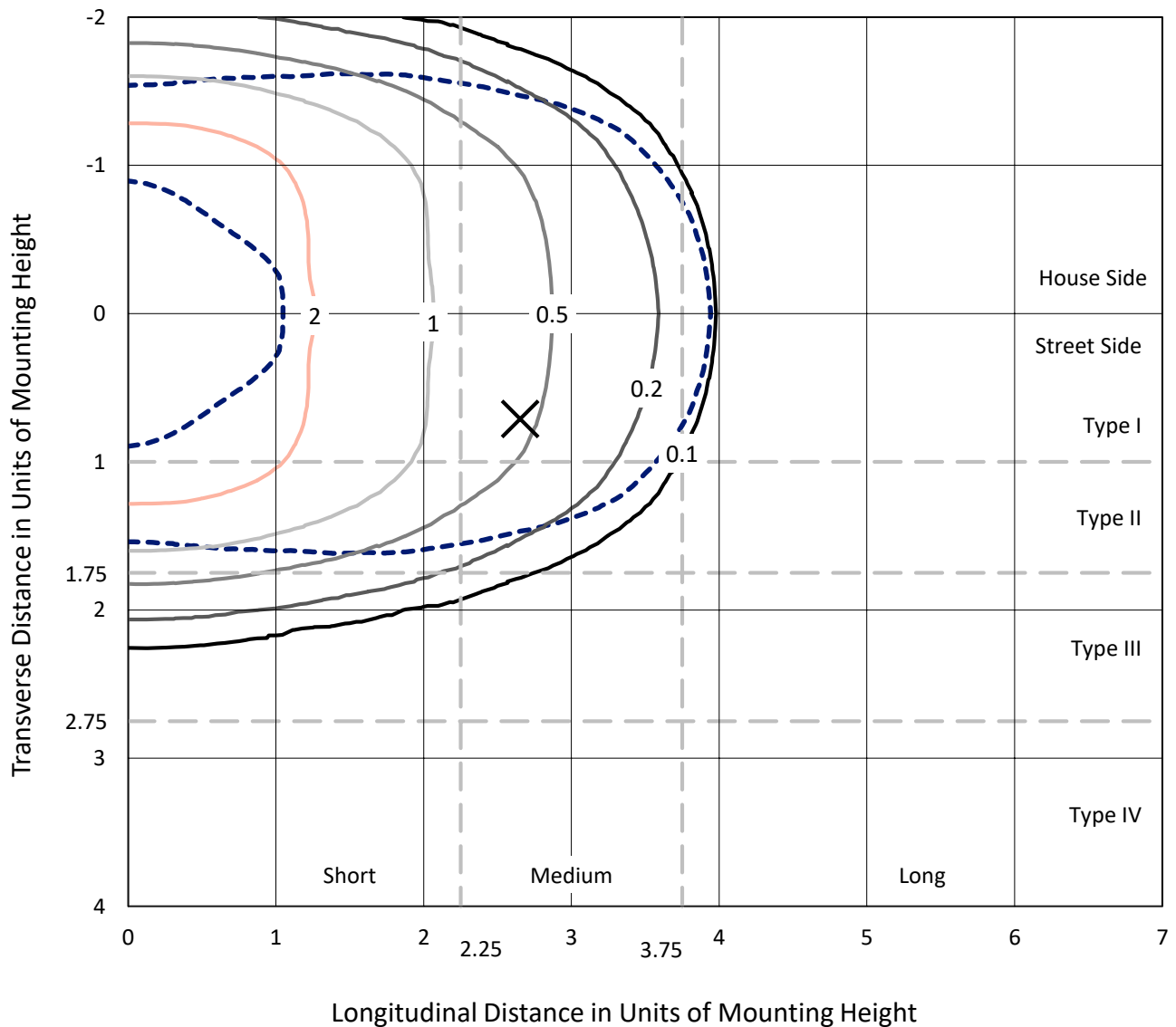


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

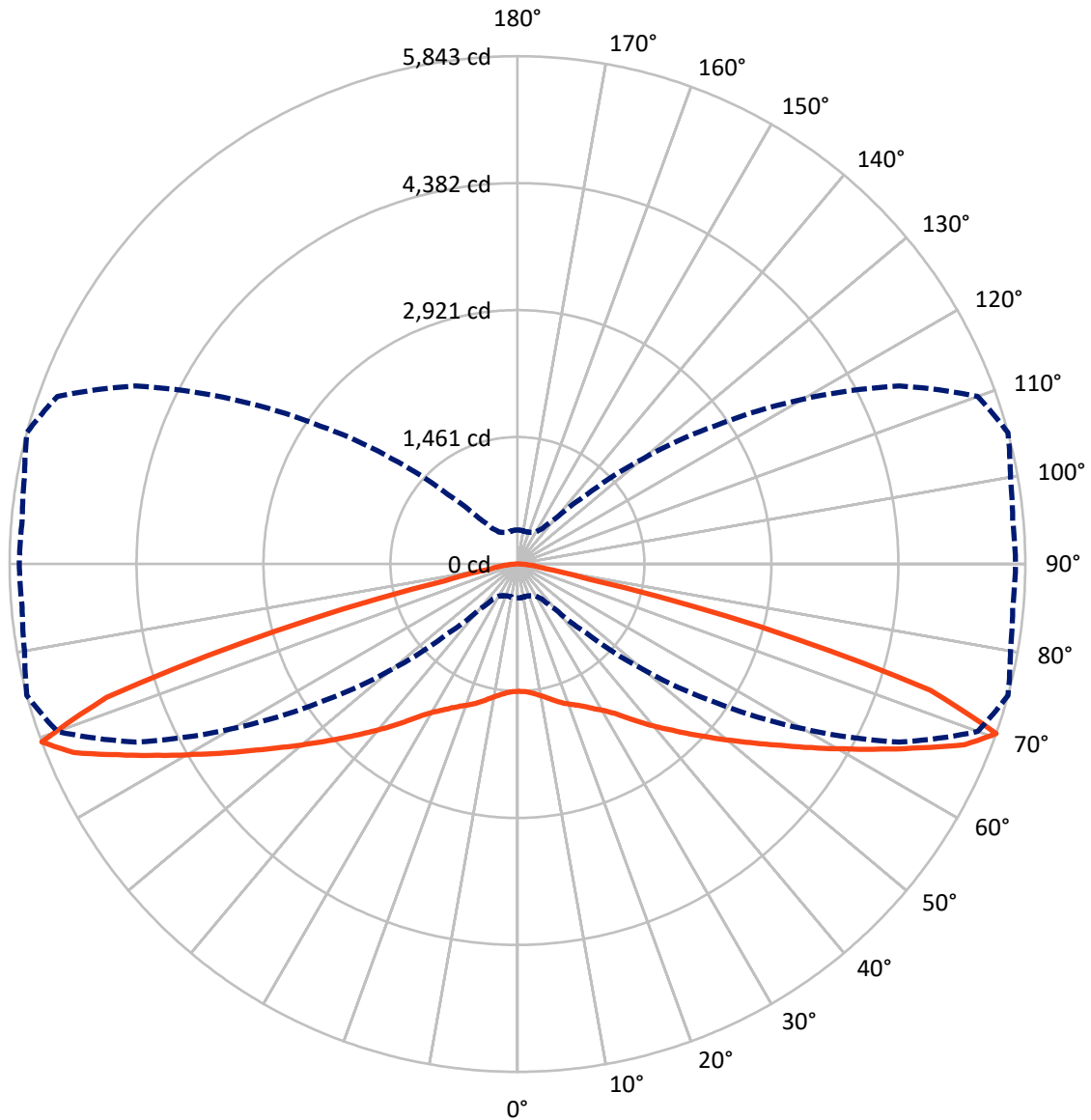


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6604.2	0.0	6604.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6604.2	0.0	6604.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13208.4	0.0	13208.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.1
10°-20°	436.6	3.3
20°-30°	821.8	6.2
30°-40°	1455.2	11.0
40°-50°	2433.5	18.4
50°-60°	3391.1	25.7
60°-70°	3144.7	23.8
70°-80°	1253.3	9.5
80°-90°	131.7	1.0
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°	13208.4	100.0
0°-180°	13208.4	100.0

Coefficient of Utilization



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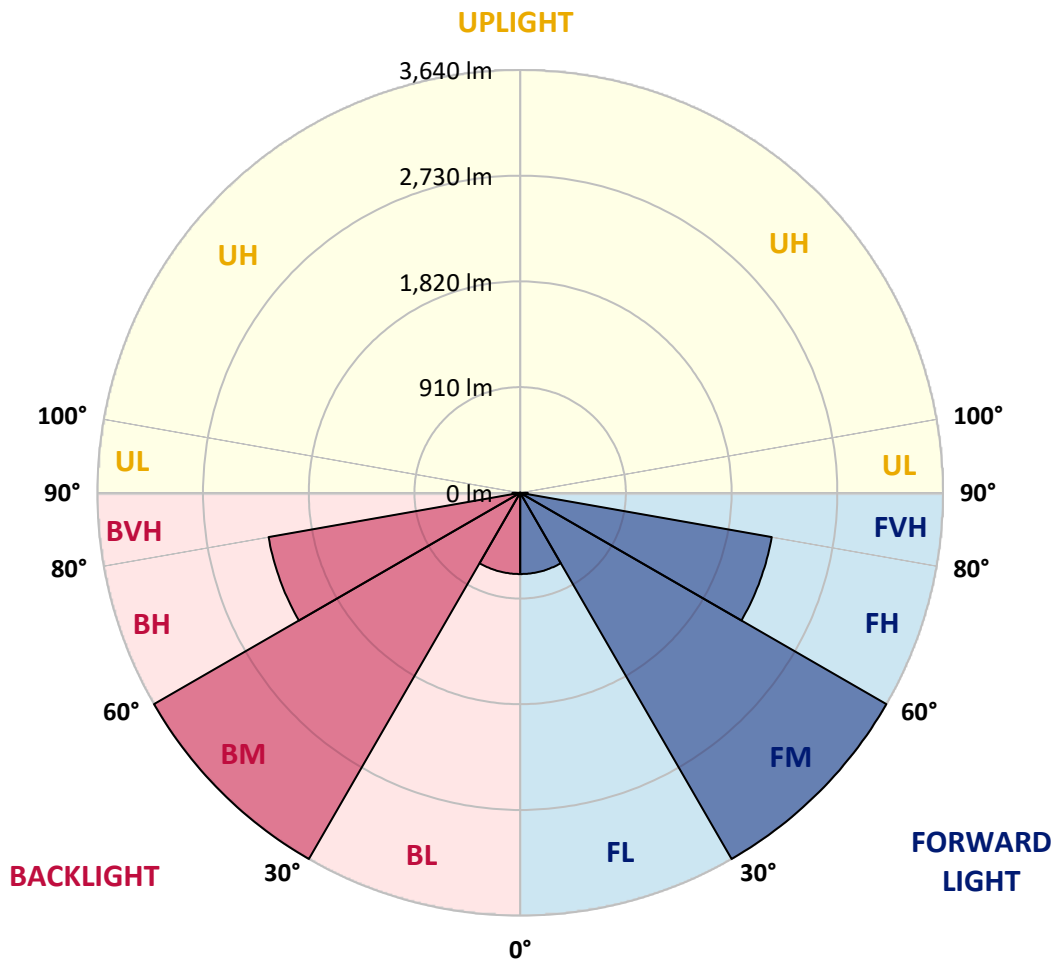
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.4	5.3			
FM	(30°-60°)	3639.9	27.6			
FH	(60°-80°)	2199.0	16.6			G2/5000
FVH	(80°-90°)	65.9	0.5			G1/100
BL	(0°-30°)	699.4	5.3	B2/1000		
BM	(30°-60°)	3639.9	27.6	B3/5000		
BH	(60°-80°)	2199.0	16.6	B3/2500		G2/5000
BVH	(80°-90°)	65.9	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1462.7	1461.4	1462.7	1462.0	1463.2	1463.2	1464.5	1467.1	1467.1	1468.9	1468.2
5°	1448.2	1447.6	1449.6	1451.4	1453.2	1457.0	1460.8	1466.4	1470.7	1473.9	1476.9
7.5°	1420.2	1420.2	1422.7	1427.0	1431.4	1439.5	1448.2	1459.4	1470.7	1480.1	1488.2
10°	1397.1	1398.3	1401.5	1408.9	1416.4	1428.9	1440.8	1457.0	1472.6	1488.2	1500.6
12.5°	1383.3	1385.2	1390.9	1402.1	1414.6	1431.4	1449.6	1470.1	1487.6	1506.3	1518.8
15°	1387.7	1388.9	1397.1	1410.7	1427.0	1448.2	1472.6	1497.0	1517.5	1537.5	1554.4
17.5°	1412.0	1414.0	1423.3	1439.0	1455.8	1480.7	1506.9	1534.4	1560.0	1582.5	1603.1
20°	1455.8	1457.6	1469.5	1486.4	1506.3	1532.0	1558.1	1586.9	1615.5	1639.3	1662.4
22.5°	1517.5	1520.7	1532.0	1548.7	1571.2	1598.7	1629.9	1660.5	1687.9	1709.8	1730.4
25°	1598.7	1605.6	1616.2	1634.9	1658.7	1683.5	1717.3	1748.4	1774.7	1795.3	1810.3
27.5°	1713.5	1722.9	1731.0	1749.1	1772.3	1796.0	1829.6	1857.2	1882.1	1902.1	1913.3
30°	1865.9	1875.2	1883.4	1900.9	1922.1	1944.5	1976.4	2000.7	2016.4	2031.9	2031.3
32.5°	2050.7	2060.6	2063.8	2082.5	2104.4	2128.7	2157.5	2171.1	2183.6	2185.5	2174.3
35°	2257.3	2262.3	2274.8	2299.7	2324.7	2344.7	2372.1	2379.0	2379.0	2369.7	2344.7
37.5°	2483.9	2487.0	2504.4	2532.6	2558.2	2578.7	2597.5	2611.2	2604.4	2584.4	2542.6
40°	2732.3	2737.9	2762.9	2787.9	2816.6	2836.0	2855.9	2858.4	2851.5	2822.2	2765.5
42.5°	2969.5	2974.6	2999.5	3038.8	3076.3	3103.2	3121.9	3125.6	3103.7	3077.0	3006.4
45°	3173.7	3186.8	3219.3	3265.4	3319.8	3357.9	3383.4	3394.0	3374.7	3339.7	3258.0
47.5°	3335.3	3348.5	3394.6	3449.7	3517.0	3578.8	3621.3	3643.8	3638.8	3612.5	3523.3
50°	3454.0	3466.5	3516.4	3583.8	3662.5	3739.3	3811.6	3865.4	3884.0	3872.2	3790.4
52.5°	3467.7	3488.3	3547.0	3637.5	3739.8	3844.8	3947.7	4038.9	4100.7	4110.0	4049.4
55°	3276.0	3296.7	3377.9	3512.0	3664.3	3835.4	4000.2	4153.7	4275.6	4337.9	4306.1
57.5°	2824.2	2861.0	2946.5	3103.7	3327.9	3583.8	3846.6	4119.4	4367.2	4532.7	4564.6
60°	2164.3	2208.0	2294.1	2461.4	2711.2	3016.3	3367.2	3770.4	4208.1	4580.1	4802.4
62.5°	1388.3	1429.5	1520.1	1665.5	1869.0	2199.8	2576.3	3055.1	3643.1	4230.5	4759.9
65°	713.5	736.0	783.4	871.5	1030.0	1277.2	1615.0	2092.6	2764.8	3489.5	4254.9
67.5°	452.0	456.3	467.0	479.4	520.0	605.6	762.8	1060.6	1613.6	2369.7	3265.4
70°	390.8	390.8	385.8	383.9	388.9	400.8	425.1	494.4	681.0	1125.0	1883.4
72.5°	357.8	354.0	345.3	338.3	337.1	337.1	342.1	352.7	382.6	458.3	737.3
75°	329.6	319.0	307.1	299.1	295.9	292.9	292.2	294.0	300.3	312.2	352.1
77.5°	295.2	281.6	267.8	259.7	256.0	251.7	247.8	243.4	240.4	244.0	261.5
80°	254.0	238.5	227.8	222.9	219.1	212.8	204.8	197.2	190.4	189.1	199.7
82.5°	204.8	186.7	187.3	189.1	182.3	173.5	164.8	156.7	144.9	138.5	144.9
85°	165.4	156.0	151.7	163.6	153.6	140.5	126.7	112.3	93.6	78.6	85.5
87.5°	64.3	64.3	96.1	147.9	133.0	108.6	93.0	79.3	49.2	38.1	38.7
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°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1467.6	1468.9	1468.2	1467.6	1467.6	1467.1	1467.6	1467.6
5°	1478.9	1482.0	1482.0	1483.2	1483.2	1483.8	1484.5	1483.8
7.5°	1495.6	1501.3	1505.0	1509.4	1510.1	1510.7	1511.9	1510.7
10°	1512.5	1523.8	1532.0	1540.0	1543.8	1545.0	1546.2	1546.2
12.5°	1533.8	1549.4	1563.7	1578.1	1585.1	1588.7	1588.7	1591.3
15°	1568.8	1584.4	1601.2	1620.6	1632.5	1638.7	1640.5	1640.5
17.5°	1618.0	1631.8	1646.1	1664.9	1679.9	1687.9	1689.8	1689.2
20°	1675.5	1688.6	1696.7	1708.6	1721.7	1731.0	1733.5	1733.5
22.5°	1741.0	1748.4	1749.8	1753.5	1764.1	1776.7	1782.2	1783.4
25°	1813.4	1815.4	1810.3	1810.3	1817.2	1829.0	1834.7	1835.3
27.5°	1907.1	1897.8	1885.3	1880.9	1885.3	1898.9	1905.8	1908.3
30°	2023.8	2001.3	1972.6	1957.1	1954.5	1972.6	1985.1	1987.0
32.5°	2157.5	2125.0	2086.9	2055.0	2046.9	2058.1	2073.0	2072.5
35°	2316.0	2277.3	2231.1	2190.5	2171.7	2183.0	2204.2	2206.7
37.5°	2498.9	2448.3	2395.3	2344.0	2314.7	2317.8	2340.4	2347.8
40°	2703.0	2637.4	2570.7	2502.0	2460.2	2452.1	2479.5	2483.9
42.5°	2921.5	2837.3	2752.9	2668.0	2614.3	2601.9	2633.7	2631.8
45°	3154.4	3046.9	2948.4	2854.7	2791.0	2772.4	2798.4	2798.4
47.5°	3404.6	3272.4	3155.0	3048.9	2979.5	2952.7	2977.7	2979.5
50°	3670.0	3529.5	3391.5	3273.5	3190.6	3156.2	3188.6	3193.6
52.5°	3934.0	3797.3	3658.1	3523.3	3422.8	3380.9	3418.4	3434.7
55°	4201.8	4067.6	3934.7	3802.9	3683.6	3634.4	3674.3	3694.9
57.5°	4484.6	4360.4	4233.7	4100.7	3985.9	3909.1	3951.5	3979.0
60°	4816.0	4709.9	4578.3	4431.5	4315.4	4237.4	4261.7	4286.1
62.5°	5078.3	5119.5	5007.7	4837.9	4688.8	4588.9	4612.6	4638.2
65°	4951.5	5374.1	5473.5	5301.8	5095.1	4939.7	4929.7	4942.8
67.5°	4138.7	4959.8	5558.3	5721.9	5548.9	5333.0	5293.1	5312.4
70°	2768.5	3791.1	4847.3	5633.9	5842.9	5759.3	5720.0	5731.8
72.5°	1329.6	2208.0	3288.6	4334.2	4970.9	5263.0	5356.7	5402.3
75°	486.3	876.5	1585.1	2388.4	2883.5	3337.9	3634.4	3755.5
77.5°	293.4	354.0	506.3	762.2	863.3	966.3	926.4	946.4
80°	217.2	245.3	277.7	312.2	323.4	323.4	310.9	300.9
82.5°	152.3	170.5	186.1	204.8	209.8	200.4	164.8	131.1
85°	98.0	106.1	113.0	124.9	121.8	116.2	78.0	69.3
87.5°	44.9	51.3	53.6	59.3	56.9	54.3	38.7	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)