

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: P191660

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191660
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-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13781 lumens
Efficiency: N/A
Efficacy: 106.8 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): 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

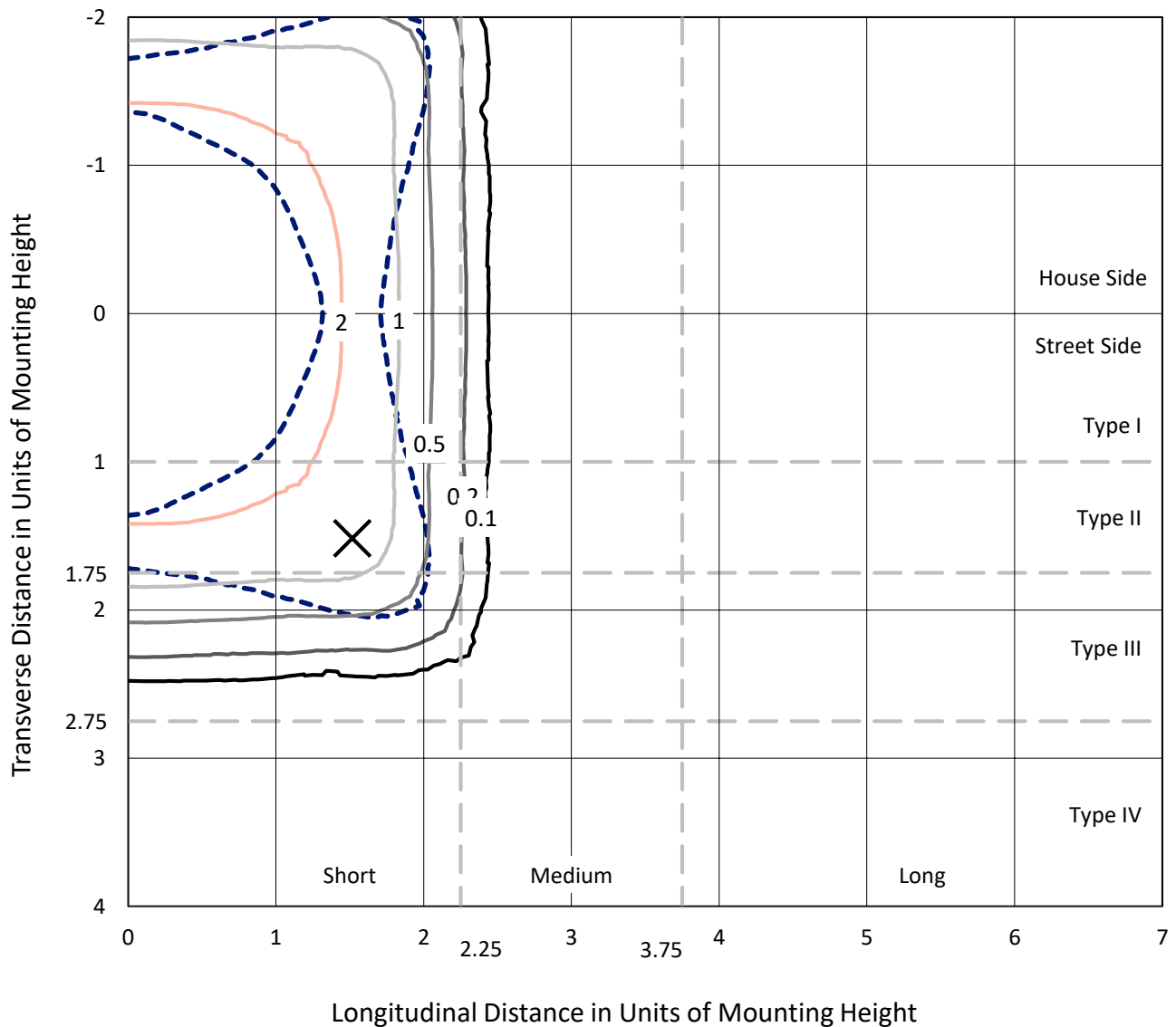


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

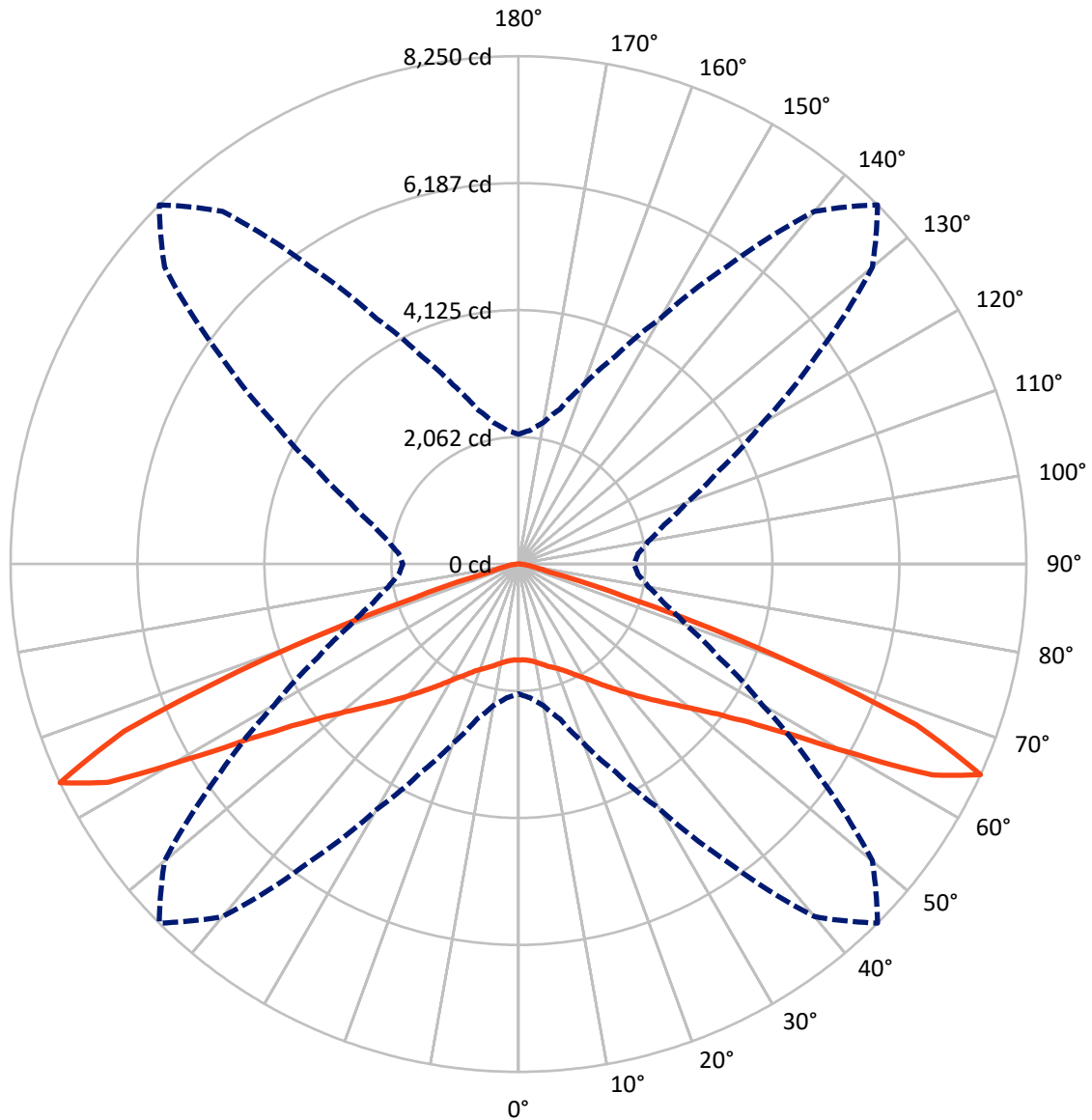


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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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	6890.5	0.0	6890.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6890.5	0.0	6890.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13781.0	0.0	13781.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	1.1
10°-20°	487.4	3.5
20°-30°	911.4	6.6
30°-40°	1541.5	11.2
40°-50°	2520.5	18.3
50°-60°	4007.9	29.1
60°-70°	3622.9	26.3
70°-80°	458.5	3.3
80°-90°	78.9	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°	13781.0	100.0
0°-180°	13781.0	100.0



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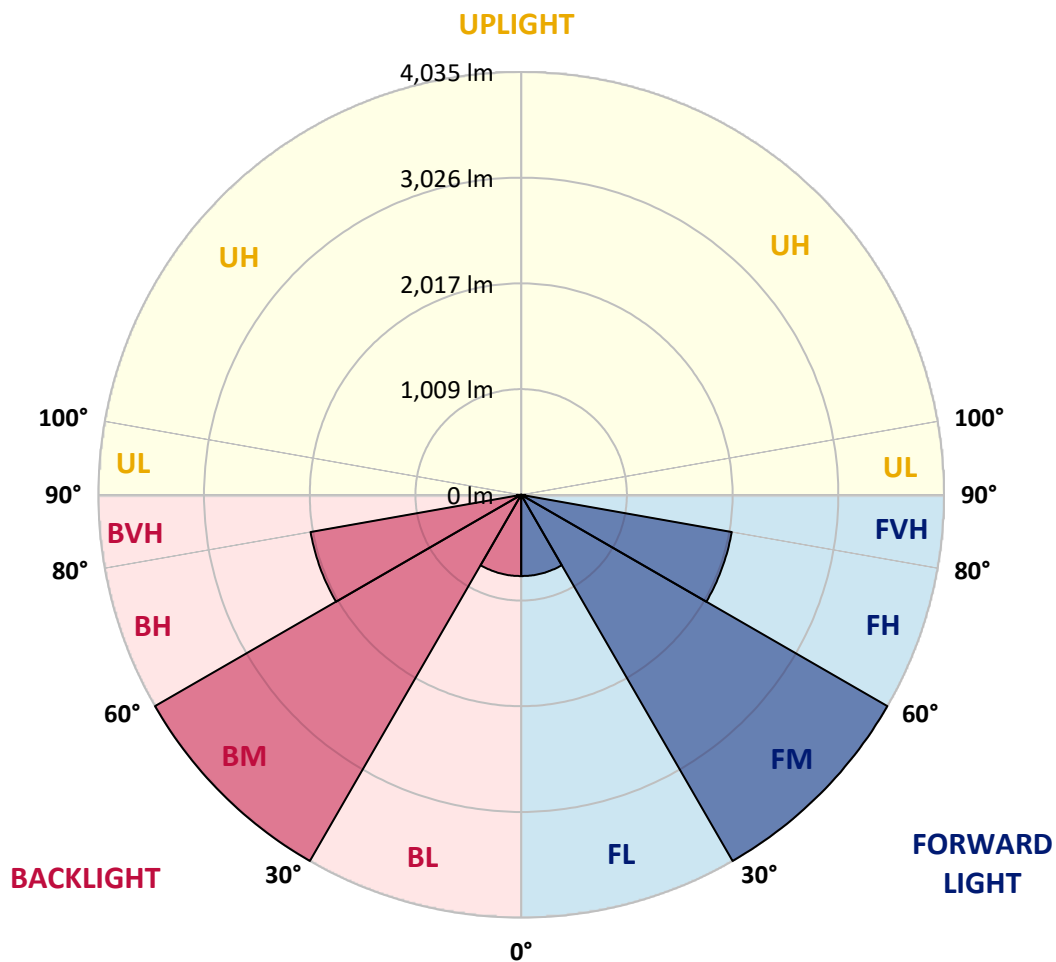
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.4	5.6			
FM	(30°-60°)	4034.9	29.3			
FH	(60°-80°)	2040.7	14.8			G2/5000
FVH	(80°-90°)	39.4	0.3			G1/100
BL	(0°-30°)	775.4	5.6	B2/1000		
BM	(30°-60°)	4034.9	29.3	B3/5000		
BH	(60°-80°)	2040.7	14.8	B3/2500		G2/5000
BVH	(80°-90°)	39.4	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°	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1560.6	1561.9	1563.2	1561.9	1563.2	1561.3	1560.0	1561.9	1560.0	1558.0	1559.3
5°	1574.2	1574.8	1574.8	1572.9	1574.8	1573.5	1571.6	1574.2	1572.2	1570.3	1571.6
7.5°	1596.8	1599.3	1597.4	1595.5	1596.8	1595.5	1594.2	1594.8	1594.2	1592.2	1592.9
10°	1627.1	1629.0	1627.7	1627.1	1628.4	1627.7	1626.5	1625.8	1626.5	1624.5	1624.5
12.5°	1663.9	1663.2	1662.6	1663.2	1665.2	1665.2	1664.5	1665.2	1666.5	1667.1	1665.8
15°	1700.0	1701.3	1701.3	1701.3	1705.2	1708.4	1710.4	1711.6	1714.2	1714.9	1712.3
17.5°	1745.2	1745.2	1744.6	1745.2	1749.1	1754.2	1756.2	1758.8	1761.3	1763.3	1760.1
20°	1795.6	1796.8	1796.8	1798.1	1803.3	1809.1	1809.1	1810.4	1809.1	1810.4	1808.5
22.5°	1856.9	1860.7	1860.7	1861.4	1866.5	1873.6	1871.7	1873.6	1870.4	1873.0	1870.4
25°	1936.9	1942.7	1941.4	1941.4	1945.3	1949.8	1950.5	1954.3	1953.7	1956.9	1955.0
27.5°	2027.3	2036.3	2038.9	2038.2	2040.8	2045.3	2046.6	2051.1	2048.6	2051.1	2049.8
30°	2135.7	2139.6	2144.7	2146.7	2149.9	2154.4	2154.4	2155.0	2151.8	2155.7	2157.6
32.5°	2248.0	2255.1	2260.3	2271.9	2277.7	2280.9	2280.3	2281.5	2278.3	2283.5	2287.4
35°	2396.4	2401.6	2410.0	2419.0	2426.8	2426.1	2424.2	2424.8	2424.8	2429.3	2433.2
37.5°	2575.2	2576.5	2587.5	2600.4	2604.3	2600.4	2588.8	2586.2	2580.4	2586.2	2592.6
40°	2764.3	2768.8	2790.8	2799.2	2801.1	2794.0	2777.2	2767.5	2754.6	2761.7	2770.8
42.5°	2962.5	2971.5	2991.5	3006.4	3012.8	3008.3	2985.1	2970.2	2953.4	2957.3	2966.3
45°	3181.9	3192.9	3221.3	3235.5	3247.7	3240.6	3218.0	3195.5	3169.0	3170.9	3185.1
47.5°	3427.2	3438.1	3474.9	3498.8	3505.3	3504.0	3478.8	3447.8	3411.7	3410.4	3422.6
50°	3702.1	3713.1	3758.9	3795.7	3814.4	3812.5	3782.8	3738.9	3695.0	3695.7	3711.1
52.5°	3970.6	3984.2	4031.9	4095.2	4132.0	4158.4	4140.4	4099.0	4045.5	4046.8	4061.0
55°	4222.3	4244.9	4299.8	4385.6	4454.0	4528.2	4549.5	4548.3	4516.0	4525.0	4539.2
57.5°	4344.3	4377.9	4462.4	4598.0	4737.4	4888.4	5016.2	5111.7	5152.4	5213.7	5199.5
60°	4113.2	4166.8	4291.4	4490.8	4766.4	5081.4	5418.9	5748.7	6030.1	6242.5	6120.5
62.5°	3367.8	3437.5	3588.5	3844.1	4261.0	4765.1	5411.2	6190.8	7040.2	7552.7	7186.7
65°	2107.3	2179.6	2333.2	2606.8	3094.8	3721.5	4598.0	5890.1	7477.2	8249.7	7504.9
67.5°	821.6	861.0	944.2	1119.2	1485.7	2043.4	2923.1	4389.5	6287.7	6964.7	6170.8
70°	411.8	415.6	431.1	463.4	542.2	704.1	1071.4	2035.0	3605.9	4355.3	3476.2
72.5°	297.5	298.2	305.9	320.1	345.3	381.4	451.1	622.8	1172.7	1792.3	1099.1
75°	227.8	230.4	234.9	242.7	256.2	274.3	299.5	358.9	444.7	515.7	433.7
77.5°	175.6	180.7	183.9	191.0	199.4	211.7	218.8	241.4	280.8	295.6	291.1
80°	133.6	138.1	145.2	151.0	156.8	162.6	160.1	170.4	191.0	203.3	196.9
82.5°	85.2	90.4	111.0	116.2	118.8	122.6	118.1	118.8	127.8	135.5	127.8
85°	54.9	58.1	70.4	76.8	77.5	80.0	78.1	73.6	73.6	67.1	75.5
87.5°	25.2	25.8	31.6	37.4	38.7	34.9	34.2	32.9	26.5	25.2	27.1
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°	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1558.7	1560.0	1560.6	1562.6	1563.2	1563.2	1563.8	1565.1
5°	1570.9	1572.9	1573.5	1576.1	1576.8	1576.1	1577.4	1578.0
7.5°	1592.9	1596.1	1597.4	1600.0	1598.1	1600.6	1601.3	1601.3
10°	1625.2	1628.4	1629.0	1631.6	1630.3	1631.6	1631.6	1630.3
12.5°	1667.8	1668.4	1666.5	1668.4	1665.8	1667.1	1665.2	1663.9
15°	1714.9	1712.9	1708.4	1708.4	1704.5	1705.2	1704.5	1703.9
17.5°	1760.7	1756.8	1753.6	1752.3	1749.1	1748.4	1746.5	1746.5
20°	1811.0	1809.1	1807.2	1804.6	1801.4	1798.1	1797.5	1798.8
22.5°	1871.7	1871.1	1871.1	1869.8	1865.3	1862.0	1860.1	1860.1
25°	1953.0	1947.2	1947.2	1946.6	1944.6	1942.7	1938.8	1940.8
27.5°	2044.7	2041.5	2044.0	2043.4	2041.5	2041.5	2038.9	2038.9
30°	2157.6	2156.3	2160.2	2157.0	2150.5	2149.9	2147.3	2144.1
32.5°	2288.0	2286.7	2292.5	2288.6	2278.3	2272.5	2267.4	2264.8
35°	2433.2	2433.9	2441.0	2438.4	2426.8	2422.9	2413.9	2412.6
37.5°	2592.0	2602.3	2614.6	2617.2	2607.5	2604.9	2595.2	2590.1
40°	2778.5	2792.1	2810.8	2815.3	2805.0	2803.0	2789.5	2782.4
42.5°	2977.3	3000.5	3023.8	3027.7	3017.3	3007.0	2994.1	2988.9
45°	3199.3	3227.1	3257.4	3265.2	3249.7	3237.4	3220.6	3220.6
47.5°	3448.5	3483.3	3517.5	3538.8	3524.6	3511.7	3491.7	3478.8
50°	3742.8	3790.5	3835.1	3857.0	3834.4	3809.9	3775.0	3763.4
52.5°	4112.0	4163.6	4202.3	4190.7	4155.8	4121.6	4083.6	4068.1
55°	4583.1	4600.5	4600.5	4556.6	4486.9	4429.5	4369.5	4349.5
57.5°	5172.4	5105.2	5002.0	4871.0	4706.4	4563.1	4466.3	4420.5
60°	5864.9	5542.2	5177.5	4819.3	4525.0	4282.3	4138.4	4072.6
62.5°	6326.4	5482.2	4751.6	4176.5	3753.1	3460.7	3261.9	3184.5
65°	5912.7	4572.1	3593.7	2905.7	2444.2	2146.7	1949.8	1877.5
67.5°	4330.7	2865.0	1913.7	1371.5	1004.9	801.6	720.9	687.4
70°	1944.0	1008.8	618.3	482.8	416.3	382.1	367.2	362.1
72.5°	586.0	424.0	357.6	322.7	296.2	279.5	267.2	265.9
75°	353.7	294.3	261.4	240.7	224.0	210.4	204.0	202.0
77.5°	247.2	216.2	200.7	185.9	173.0	162.6	156.8	152.3
80°	173.6	158.8	151.7	143.3	134.9	125.2	116.8	112.9
82.5°	116.2	112.9	112.9	107.8	100.7	91.6	74.9	71.0
85°	74.9	74.2	75.5	73.6	68.4	58.7	48.4	45.8
87.5°	34.9	35.5	39.4	38.7	37.4	31.0	24.5	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)