

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: P268248

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268248  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 11973.1 lumens  
Efficiency: N/A  
Efficacy: 92.8 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 - G1

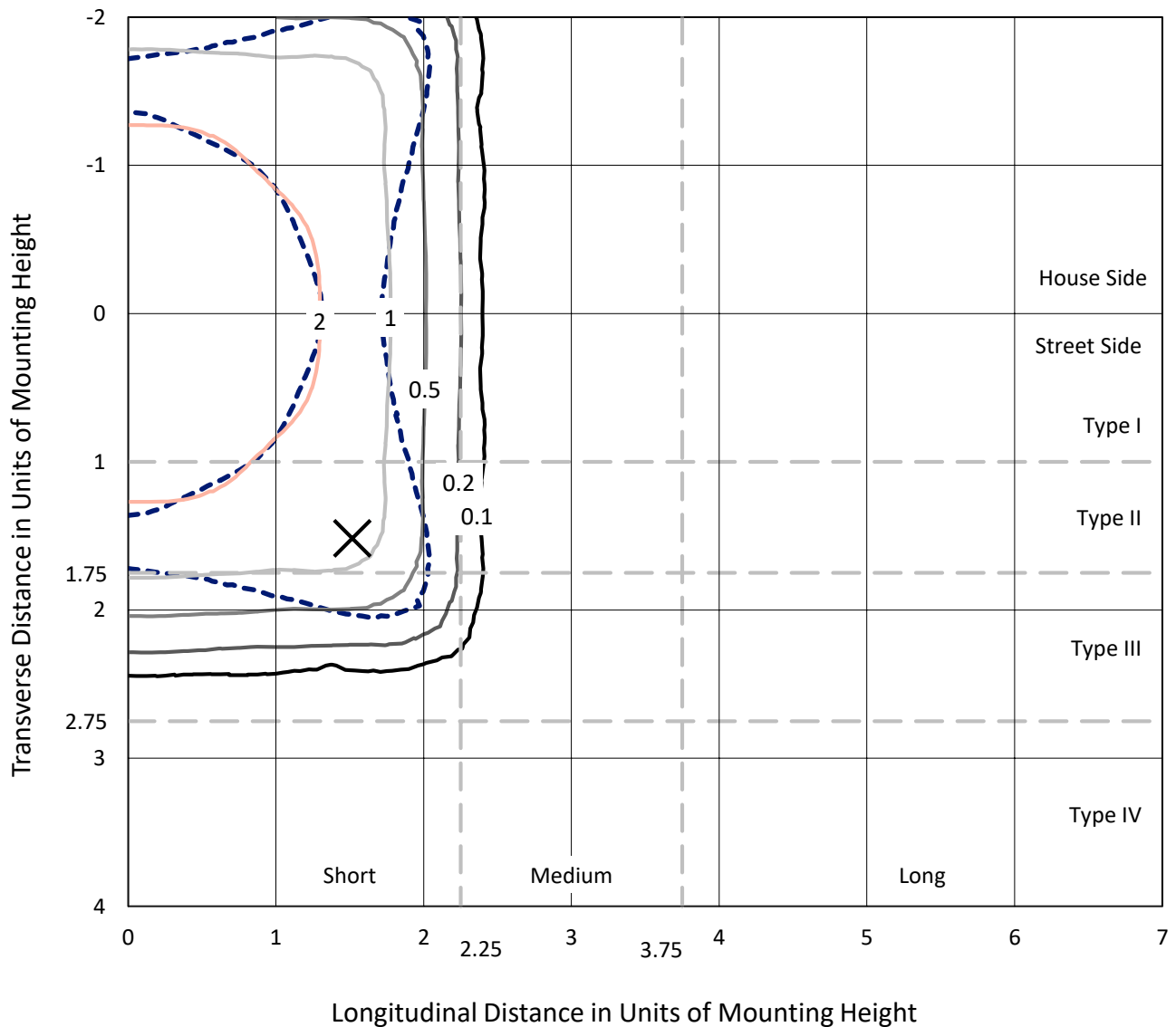
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

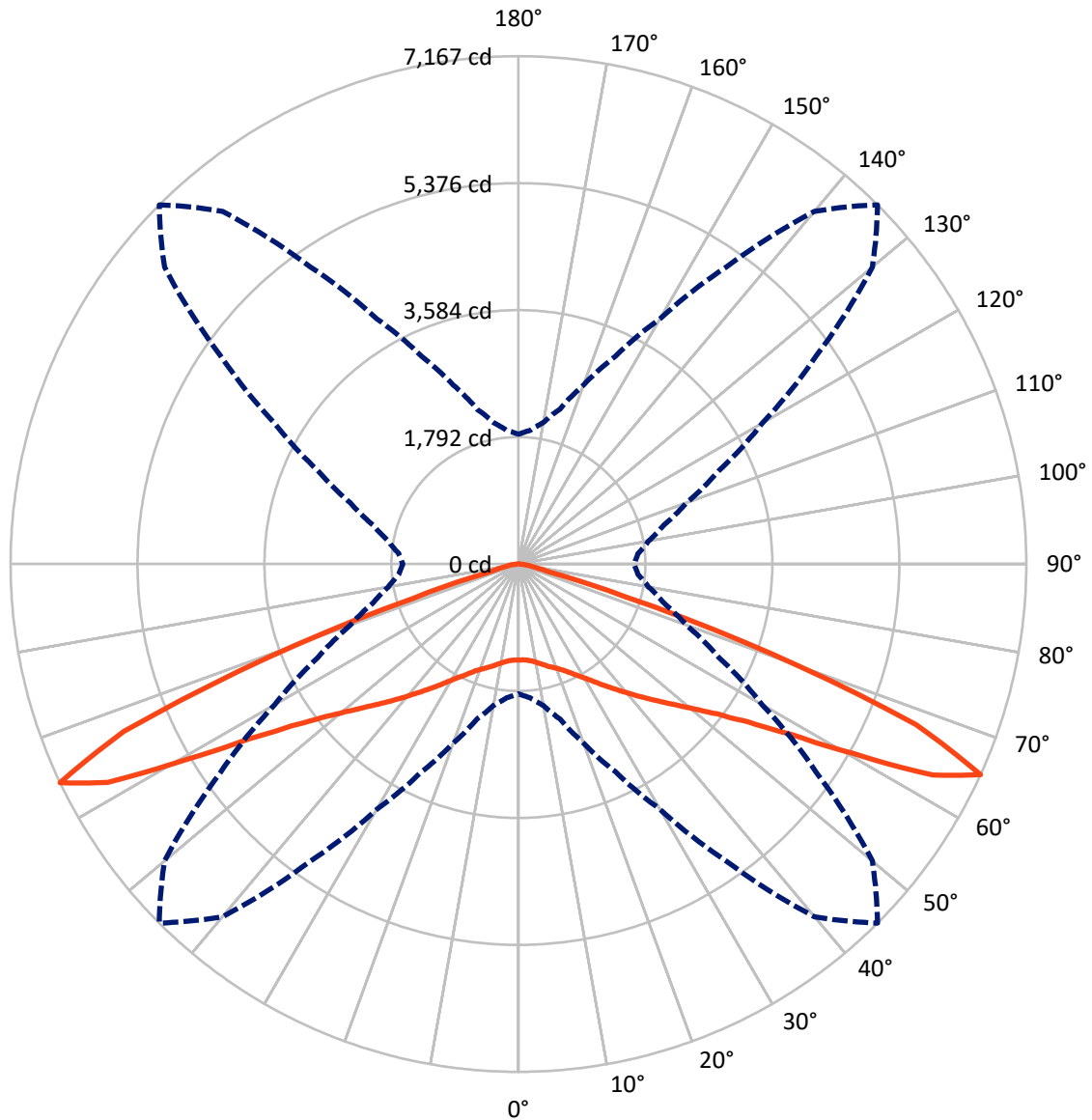


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	5986.5	0.0	5986.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5986.5	0.0	5986.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11973.1	0.0	11973.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	1.1
10°-20°	423.5	3.5
20°-30°	791.9	6.6
30°-40°	1339.2	11.2
40°-50°	2189.8	18.3
50°-60°	3482.1	29.1
60°-70°	3147.6	26.3
70°-80°	398.4	3.3
80°-90°	68.5	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°	11973.1	100.0
0°-180°	11973.1	100.0

**Coefficient of Utilization**



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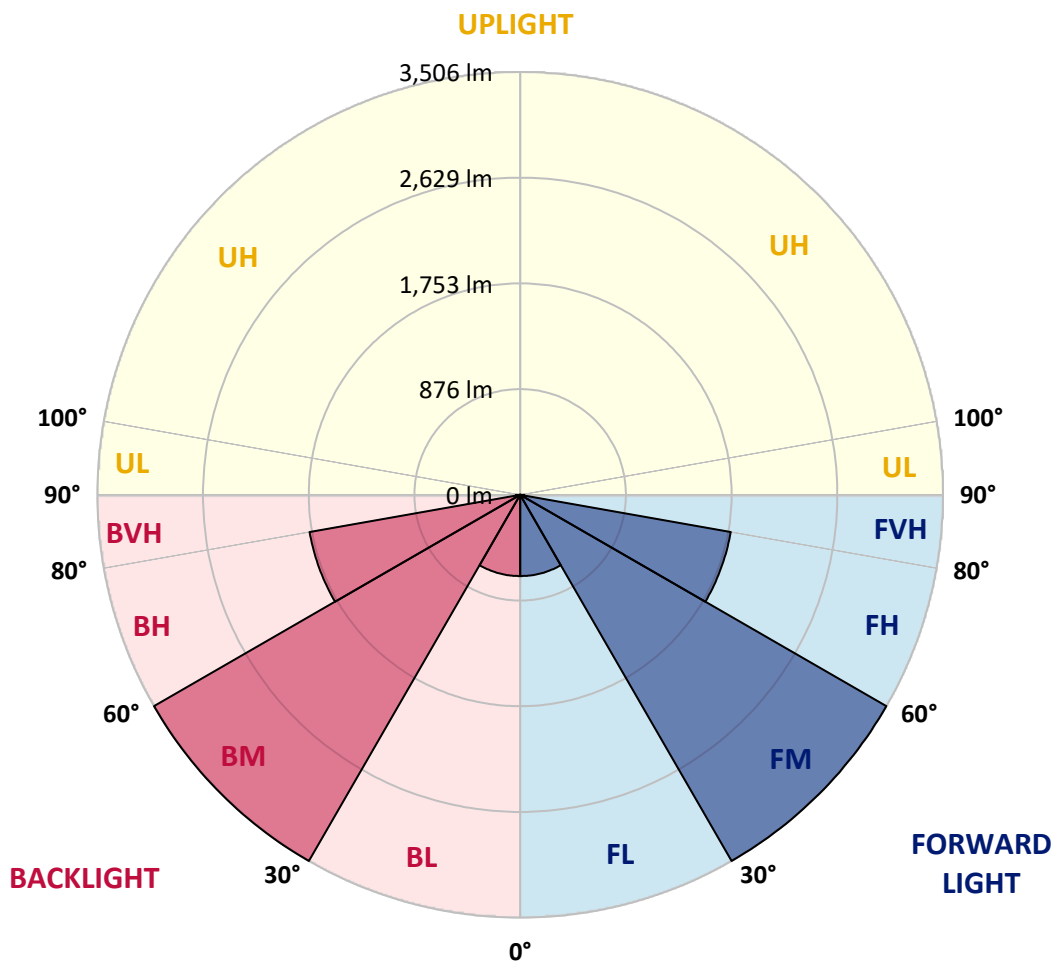
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	673.7	5.6			
FM	(30°-60°)	3505.6	29.3			
FH	(60°-80°)	1773.0	14.8			G1/1800
FVH	(80°-90°)	34.3	0.3			G1/100
BL	(0°-30°)	673.7	5.6	B2/1000		
BM	(30°-60°)	3505.6	29.3	B3/5000		
BH	(60°-80°)	1773.0	14.8	B3/2500		G1/1800
BVH	(80°-90°)	34.3	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7
2.5°	1355.9	1357.0	1358.1	1357.0	1358.1	1356.4	1355.4	1357.0	1355.4	1353.7	1354.7
5°	1367.7	1368.2	1368.2	1366.5	1368.2	1367.1	1365.5	1367.7	1366.0	1364.3	1365.5
7.5°	1387.3	1389.5	1387.8	1386.2	1387.3	1386.2	1385.0	1385.5	1385.0	1383.4	1383.8
10°	1413.7	1415.3	1414.2	1413.7	1414.8	1414.2	1413.0	1412.6	1413.0	1411.3	1411.3
12.5°	1445.6	1445.1	1444.5	1445.1	1446.7	1446.7	1446.1	1446.7	1447.9	1448.3	1447.3
15°	1477.1	1478.2	1478.2	1478.2	1481.5	1484.3	1485.9	1487.1	1489.3	1489.8	1487.7
17.5°	1516.2	1516.2	1515.7	1516.2	1519.7	1524.2	1525.9	1528.0	1530.3	1532.0	1529.2
20°	1559.9	1561.2	1561.2	1562.2	1566.7	1571.8	1571.8	1572.9	1571.8	1572.9	1571.2
22.5°	1613.3	1616.6	1616.6	1617.2	1621.7	1627.9	1626.1	1627.9	1625.0	1627.3	1625.0
25°	1682.7	1687.8	1686.7	1686.7	1690.2	1694.1	1694.6	1697.9	1697.3	1700.2	1698.4
27.5°	1761.2	1769.1	1771.4	1770.7	1773.1	1776.9	1778.1	1782.1	1779.8	1782.1	1780.9
30°	1855.4	1858.9	1863.4	1865.1	1867.8	1871.8	1871.8	1872.3	1869.6	1872.8	1874.6
32.5°	1953.1	1959.3	1963.8	1973.8	1978.8	1981.8	1981.1	1982.2	1979.4	1983.9	1987.3
35°	2082.0	2086.6	2093.8	2101.7	2108.4	2107.9	2106.2	2106.7	2106.7	2110.7	2114.0
37.5°	2237.4	2238.4	2248.0	2259.2	2262.7	2259.2	2249.1	2246.9	2241.9	2246.9	2252.5
40°	2401.7	2405.7	2424.6	2431.9	2433.7	2427.5	2412.8	2404.5	2393.3	2399.5	2407.3
42.5°	2573.9	2581.6	2599.1	2611.9	2617.5	2613.7	2593.4	2580.6	2566.0	2569.3	2577.1
45°	2764.4	2774.0	2798.7	2811.1	2821.7	2815.5	2795.9	2776.2	2753.2	2754.9	2767.3
47.5°	2977.5	2987.1	3019.1	3039.9	3045.4	3044.3	3022.3	2995.5	2964.0	2963.0	2973.6
50°	3216.4	3226.0	3265.8	3297.8	3313.9	3312.3	3286.4	3248.5	3210.3	3210.8	3224.2
52.5°	3449.8	3461.4	3503.0	3557.9	3589.8	3613.0	3597.3	3561.3	3514.8	3515.8	3528.3
55°	3668.4	3688.0	3735.7	3810.3	3869.7	3934.1	3952.7	3951.6	3923.5	3931.4	3943.6
57.5°	3774.4	3803.6	3876.9	3994.8	4115.9	4247.0	4358.0	4441.1	4476.4	4529.8	4517.3
60°	3573.6	3620.2	3728.3	3901.7	4141.0	4414.7	4708.0	4994.5	5239.1	5423.5	5317.5
62.5°	2926.0	2986.5	3117.7	3339.8	3702.1	4140.0	4701.3	5378.7	6116.6	6561.8	6243.8
65°	1830.8	1893.6	2027.0	2264.8	2688.7	3233.3	3994.8	5117.4	6496.3	7167.4	6520.3
67.5°	713.9	748.0	820.3	972.3	1290.9	1775.3	2539.6	3813.7	5462.9	6051.1	5361.3
70°	357.7	361.1	374.6	402.6	471.0	611.7	930.9	1768.0	3132.8	3783.9	3020.2
72.5°	258.5	259.2	265.8	278.1	300.0	331.5	392.0	541.0	1018.9	1557.2	955.0
75°	197.9	200.2	204.2	210.8	222.6	238.3	260.1	311.8	386.4	448.1	376.7
77.5°	152.5	157.1	159.8	165.9	173.3	184.0	190.1	209.8	243.9	256.8	253.0
80°	116.2	120.1	126.1	131.2	136.3	141.4	139.1	148.0	165.9	176.6	171.0
82.5°	74.0	78.5	96.5	100.9	103.1	106.5	102.6	103.1	111.0	117.8	111.0
85°	47.7	50.5	61.2	66.7	67.4	69.4	67.8	63.9	63.9	58.3	65.5
87.5°	21.9	22.5	27.5	32.5	33.6	30.4	29.7	28.6	22.9	21.9	23.5
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°	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7	1354.7
2.5°	1354.3	1355.4	1355.9	1357.6	1358.1	1358.1	1358.6	1359.9
5°	1364.9	1366.5	1367.1	1369.3	1369.8	1369.3	1370.5	1371.1
7.5°	1383.8	1386.8	1387.8	1390.0	1388.4	1390.7	1391.2	1391.2
10°	1412.0	1414.8	1415.3	1417.5	1416.4	1417.5	1417.5	1416.4
12.5°	1449.0	1449.5	1447.9	1449.5	1447.3	1448.3	1446.7	1445.6
15°	1489.8	1488.2	1484.3	1484.3	1480.9	1481.5	1480.9	1480.3
17.5°	1529.8	1526.3	1523.5	1522.4	1519.7	1519.0	1517.3	1517.3
20°	1573.4	1571.8	1570.1	1567.8	1565.0	1562.2	1561.7	1562.8
22.5°	1626.1	1625.7	1625.7	1624.5	1620.5	1617.8	1616.1	1616.1
25°	1696.8	1691.8	1691.8	1691.1	1689.5	1687.8	1684.5	1686.2
27.5°	1776.5	1773.7	1775.9	1775.3	1773.7	1773.7	1771.4	1771.4
30°	1874.6	1873.4	1876.7	1874.0	1868.5	1867.8	1865.6	1862.7
32.5°	1987.9	1986.7	1991.7	1988.4	1979.4	1974.4	1970.0	1967.6
35°	2114.0	2114.6	2120.8	2118.6	2108.4	2105.1	2097.3	2096.0
37.5°	2252.0	2260.9	2271.5	2273.8	2265.4	2263.2	2254.7	2250.3
40°	2414.0	2425.9	2442.0	2445.9	2437.0	2435.3	2423.5	2417.3
42.5°	2586.7	2606.9	2627.2	2630.4	2621.4	2612.5	2601.3	2596.8
45°	2779.6	2803.7	2830.1	2836.8	2823.4	2812.8	2798.1	2798.1
47.5°	2996.0	3026.3	3056.0	3074.5	3062.2	3051.1	3033.7	3022.3
50°	3251.8	3293.2	3332.0	3350.9	3331.4	3310.1	3279.8	3269.7
52.5°	3572.5	3617.4	3651.0	3640.9	3610.6	3581.0	3547.9	3534.4
55°	3981.8	3997.0	3997.0	3958.9	3898.4	3848.3	3796.2	3778.9
57.5°	4493.9	4435.6	4345.8	4231.9	4088.9	3964.5	3880.4	3840.6
60°	5095.5	4815.2	4498.4	4187.1	3931.4	3720.5	3595.5	3538.3
62.5°	5496.4	4763.0	4128.3	3628.6	3260.8	3006.6	2834.1	2766.7
65°	5137.0	3972.3	3122.1	2524.4	2123.6	1865.1	1694.1	1631.2
67.5°	3762.6	2489.2	1662.7	1191.6	873.2	696.5	626.4	597.3
70°	1689.0	876.4	537.1	419.5	361.7	332.0	319.1	314.5
72.5°	509.2	368.5	310.6	280.5	257.4	242.8	232.1	231.0
75°	307.3	255.7	227.1	209.1	194.7	182.8	177.1	175.4
77.5°	214.8	187.8	174.5	161.4	150.2	141.4	136.3	132.3
80°	150.8	137.9	131.8	124.4	117.1	108.8	101.5	98.2
82.5°	100.9	98.2	98.2	93.7	87.5	79.6	65.0	61.7
85°	65.0	64.5	65.5	63.9	59.5	51.1	42.0	39.9
87.5°	30.4	30.8	34.2	33.6	32.5	26.9	21.3	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)