

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: P317409

Luminaire Tested: **GAN-SA5C-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33540 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

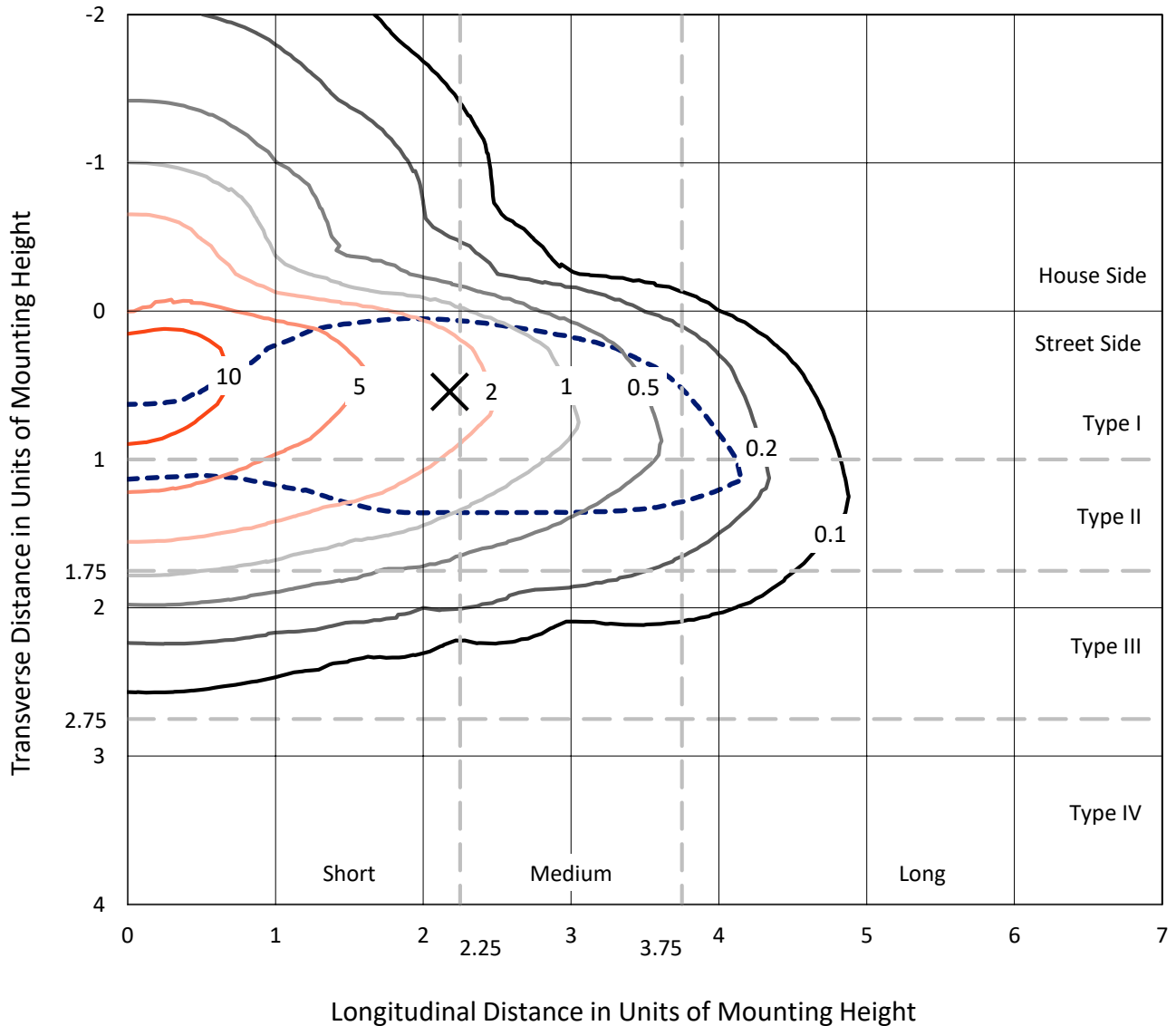
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

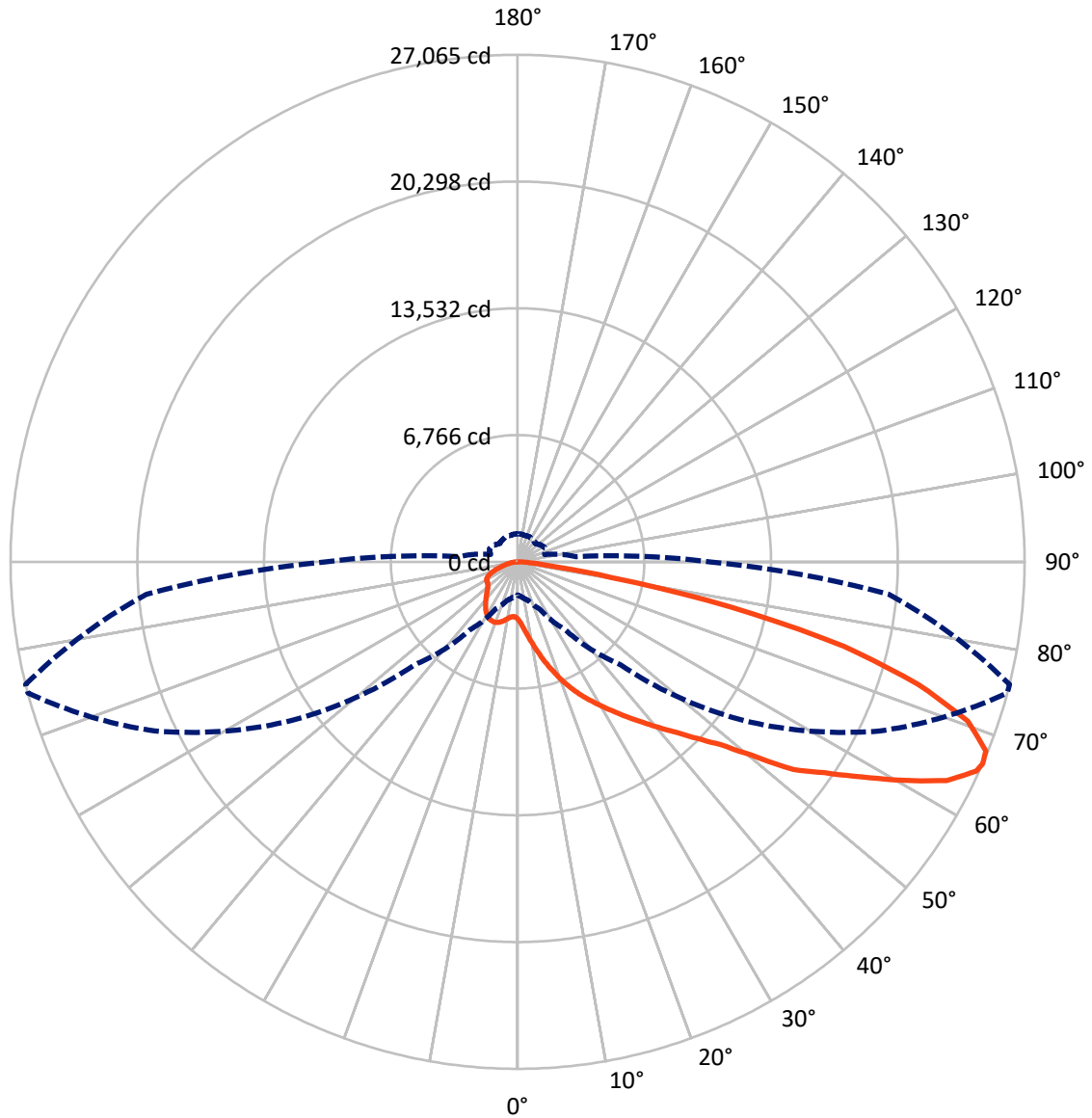
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - Horizontal Cone Through 66-Deg Vertical

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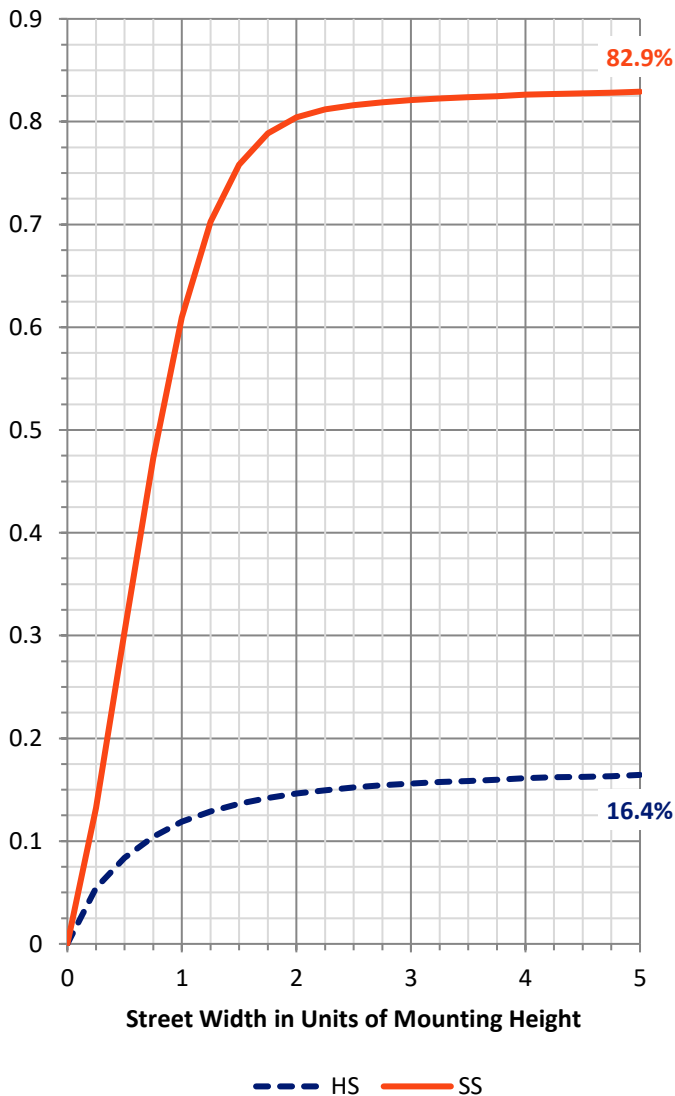
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5643.6	0.0	5643.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	27896.4	0.0	27896.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	33540.0	0.0	33540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.4	1.1
10°-20°	1462.7	4.4
20°-30°	2842.3	8.5
30°-40°	4639.3	13.8
40°-50°	6338.4	18.9
50°-60°	7382.9	22.0
60°-70°	6618.9	19.7
70°-80°	3344.9	10.0
80°-90°	540.2	1.6
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°	33540.0	100.0
0°-180°	33540.0	100.0

**Coefficient of Utilization**



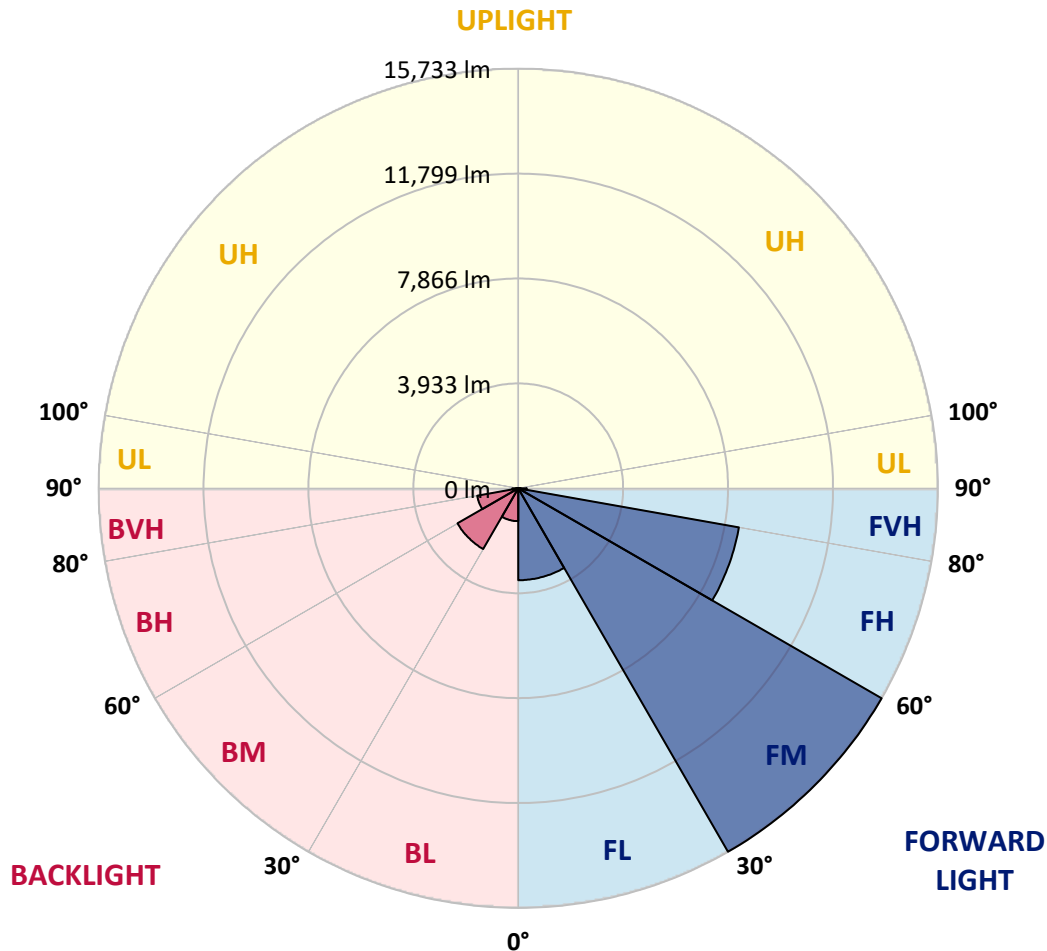
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.5	10.3			
FM (30°-60°)	15732.6	46.9			
FH (60°-80°)	8400.3	25.0			G4/12000
FVH (80°-90°)	319.0	1.0			G3/500
BL (0°-30°)	1230.9	3.7	B3/2500		
BM (30°-60°)	2628.0	7.8	B3/5000		
BH (60°-80°)	1563.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	221.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0
2.5°	4066.1	4004.6	3998.9	3909.0	3888.5	3716.5	3590.2	3458.1	3307.8	3278.2	3159.7
5°	5223.0	5217.3	5138.7	4991.8	4876.8	4583.1	4292.7	3985.3	3648.2	3593.6	3327.1
7.5°	6263.7	6254.6	6194.2	6036.0	5869.7	5508.8	5094.3	4622.9	4076.4	3995.5	3553.7
10°	7053.9	7050.5	7030.0	6913.9	6772.7	6426.5	5968.8	5325.4	4573.9	4463.5	3837.2
12.5°	7664.2	7671.1	7684.7	7643.7	7576.6	7281.6	6812.5	6070.1	5104.6	4995.2	4152.6
15°	8077.6	8098.1	8168.6	8226.7	8262.0	8081.0	7626.7	6831.9	5698.9	5568.0	4502.2
17.5°	8285.9	8308.7	8430.5	8605.9	8767.6	8749.4	8388.4	7558.3	6269.4	6143.0	4878.0
20°	8465.8	8482.9	8619.6	8830.2	9116.0	9242.4	9039.7	8257.5	6894.5	6744.2	5276.5
22.5°	8987.3	9009.0	9050.0	9169.5	9422.3	9654.6	9556.7	8919.0	7467.2	7327.2	5654.5
25°	9993.9	10020.1	9931.3	9829.9	9877.8	10039.4	10057.7	9522.5	8048.0	7889.7	6061.0
27.5°	11206.6	11244.1	11092.7	10831.9	10604.2	10541.6	10520.0	10016.7	8602.5	8419.2	6463.0
30°	12394.2	12459.1	12262.1	11923.9	11506.0	11212.2	10994.8	10500.6	9149.0	8973.7	6842.1
32.5°	13554.4	13528.3	13242.5	12912.2	12422.6	12054.8	11528.8	11019.8	9763.9	9562.4	7219.0
35°	14349.2	14358.3	14093.0	13701.3	13234.5	12952.1	12243.9	11580.0	10391.3	10205.7	7647.1
37.5°	15025.6	14983.4	14682.8	14317.3	13915.4	13794.7	13080.8	12197.2	11071.1	10868.4	8102.6
40°	15251.0	15202.1	15005.1	14742.1	14419.8	14409.6	14004.2	12896.3	11839.6	11639.2	8616.1
42.5°	15114.4	15051.8	14970.9	14899.2	14800.1	14845.7	14871.9	13716.1	12684.5	12460.2	9210.5
45°	14610.0	14515.5	14572.4	14728.4	14943.6	15200.9	15655.2	14623.6	13630.7	13442.9	9908.5
47.5°	13834.6	13749.2	13926.8	14260.4	14845.7	15497.0	16396.5	15625.6	14760.3	14573.5	10902.5
50°	12743.7	12768.8	13022.7	13629.6	14514.3	15633.6	17309.7	16952.2	16402.2	16228.0	12258.7
52.5°	10953.8	10958.3	11673.4	12669.7	13926.8	15563.0	17816.4	18647.6	18644.2	18433.5	13549.9
55°	9291.4	9392.7	9958.6	11282.8	12974.9	15280.6	18170.5	19472.0	20116.5	19869.4	14753.4
57.5°	7667.6	7726.9	8263.2	9593.1	11616.5	14528.0	18533.7	20461.5	21813.0	21657.1	16249.6
60°	5820.8	5911.9	6466.4	7695.0	9878.9	13192.4	18567.9	21494.2	23841.0	23683.8	17920.0
62.5°	3778.0	3935.2	4454.4	5605.6	7777.0	11271.5	17775.4	22169.4	25763.0	25707.2	19402.5
65°	2171.4	2289.8	2650.8	3538.9	5365.3	8859.8	15890.9	21909.8	26946.1	26914.2	19957.1
66°	1774.0	1848.0	2124.7	2765.8	4427.1	7780.4	14795.6	21362.1	27063.3	27064.5	19893.3
67.5°	1418.8	1451.8	1575.9	1980.1	3266.8	6166.9	12838.2	20154.0	26917.6	26957.5	19482.2
70°	1173.9	1191.0	1229.7	1327.7	1783.1	3718.8	9112.6	17014.8	25454.4	25485.2	17877.9
72.5°	1053.2	1063.5	1078.3	1092.0	1258.2	2078.0	5565.7	13611.4	22317.5	22357.3	15433.2
75°	954.2	959.9	957.6	958.7	1055.5	1324.2	2876.2	10162.4	18045.3	17965.6	11822.6
77.5°	838.0	843.7	832.4	834.6	933.7	1017.9	1431.3	7114.3	12177.8	11615.3	6661.1
80°	708.2	712.8	708.2	716.2	813.0	768.6	832.4	4002.3	5384.7	5093.2	2368.4
82.5°	535.2	554.5	568.2	600.1	669.5	546.6	556.8	1558.8	1639.7	1561.1	726.5
85°	234.6	285.8	428.1	458.9	503.3	327.9	365.5	635.4	667.2	646.8	264.2
87.5°	61.5	67.2	211.8	266.4	279.0	148.0	190.2	289.2	305.2	289.2	87.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0	3063.0
2.5°	3097.1	3041.3	2941.1	2852.3	2785.1	2739.6	2694.0	2671.3	2657.6	2643.9	2646.2
5°	3196.2	3083.5	2911.5	2789.7	2721.4	2678.1	2655.3	2646.2	2640.5	2626.9	2626.9
7.5°	3345.3	3185.9	2949.1	2823.8	2770.3	2737.3	2723.6	2719.1	2712.3	2696.3	2698.6
10°	3533.2	3310.0	3027.7	2905.8	2856.9	2820.4	2801.1	2794.2	2781.7	2763.5	2765.8
12.5°	3754.1	3463.8	3131.3	3003.7	2944.5	2895.6	2863.7	2844.3	2822.7	2798.8	2799.9
15°	3995.5	3631.1	3242.9	3091.4	3010.6	2942.3	2891.0	2858.0	2823.8	2794.2	2793.1
17.5°	4240.3	3792.8	3328.3	3139.2	3029.9	2940.0	2870.5	2819.3	2777.2	2740.7	2737.3
20°	4504.5	3938.6	3376.1	3134.7	2993.5	2886.5	2794.2	2730.5	2683.8	2647.4	2641.7
22.5°	4773.2	4075.2	3384.1	3088.0	2912.7	2781.7	2684.9	2614.3	2566.5	2528.9	2515.3
25°	5019.2	4181.1	3351.0	2998.1	2799.9	2658.7	2564.2	2492.5	2453.8	2409.4	2395.7
27.5°	5243.5	4255.1	3285.0	2883.1	2673.5	2534.6	2445.8	2384.3	2342.2	2308.0	2296.6
30°	5445.0	4295.0	3176.8	2746.4	2543.7	2417.3	2342.2	2300.1	2263.6	2220.4	2212.4
32.5°	5636.3	4295.0	3037.9	2597.3	2415.1	2313.7	2269.3	2243.1	2202.1	2160.0	2148.6
35°	5827.6	4268.8	2873.9	2441.3	2296.6	2239.7	2237.4	2206.7	2144.1	2087.1	2072.3
37.5°	6029.1	4215.3	2689.5	2295.5	2199.9	2206.7	2226.1	2157.7	2068.9	1988.1	1966.4
40°	6256.9	4141.3	2498.2	2169.1	2119.0	2191.9	2195.3	2087.1	1914.1	1840.1	1820.7
42.5°	6524.4	4067.2	2320.6	2057.5	2055.3	2147.5	2137.2	1934.6	1830.9	1793.4	1783.1
45°	6876.3	4025.1	2152.0	1951.6	2005.2	2075.8	2038.2	1850.3	1807.0	1785.4	1776.3
47.5°	7430.8	4046.7	1997.2	1867.4	1955.1	2004.0	1853.7	1816.1	1785.4	1759.2	1750.1
50°	8125.4	4034.2	1871.9	1809.3	1898.1	1928.9	1770.6	1771.7	1755.8	1726.2	1712.5
52.5°	8648.0	3936.3	1791.1	1776.3	1848.0	1795.6	1718.2	1728.5	1720.5	1677.2	1662.4
55°	9152.4	3852.0	1750.1	1763.8	1811.6	1629.4	1656.7	1681.8	1673.8	1631.7	1624.8
57.5°	9779.8	3836.1	1725.0	1767.2	1780.8	1546.3	1597.5	1630.5	1624.8	1606.6	1603.2
60°	10548.4	3840.7	1702.3	1772.9	1746.7	1484.8	1541.7	1583.9	1587.3	1583.9	1581.6
62.5°	10970.9	3716.5	1645.3	1756.9	1686.3	1431.3	1483.7	1545.1	1546.3	1553.1	1552.0
65°	10612.2	3345.3	1539.4	1701.1	1585.0	1386.9	1433.6	1500.7	1483.7	1514.4	1514.4
66°	10263.8	3131.3	1487.1	1664.7	1541.7	1369.8	1417.6	1478.0	1456.3	1498.5	1498.5
67.5°	9552.1	2770.3	1392.6	1587.3	1480.2	1345.9	1399.4	1440.4	1410.8	1473.4	1468.9
70°	8251.8	2142.9	1202.4	1411.9	1378.9	1310.6	1374.3	1365.2	1322.0	1417.6	1399.4
72.5°	6957.1	1628.3	965.6	1181.9	1225.2	1266.2	1339.0	1269.6	1214.9	1282.1	1242.3
75°	5398.3	1224.0	762.9	918.9	1035.0	1196.7	1296.9	1159.1	1080.6	1073.7	1052.1
77.5°	2918.4	840.3	604.6	701.4	822.1	1110.2	1268.5	1040.7	922.3	895.0	877.9
80°	1155.7	546.6	439.5	531.7	575.0	984.9	1200.1	902.9	760.6	733.3	707.1
82.5°	477.1	323.4	283.5	356.4	374.6	842.6	1077.2	740.1	587.5	813.0	863.1
85°	205.0	177.6	168.5	184.5	211.8	591.0	857.4	564.8	634.2	565.9	449.8
87.5°	61.5	75.2	71.7	70.6	77.4	141.2	456.6	314.3	465.7	176.5	132.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)