

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: P320929

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33028 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

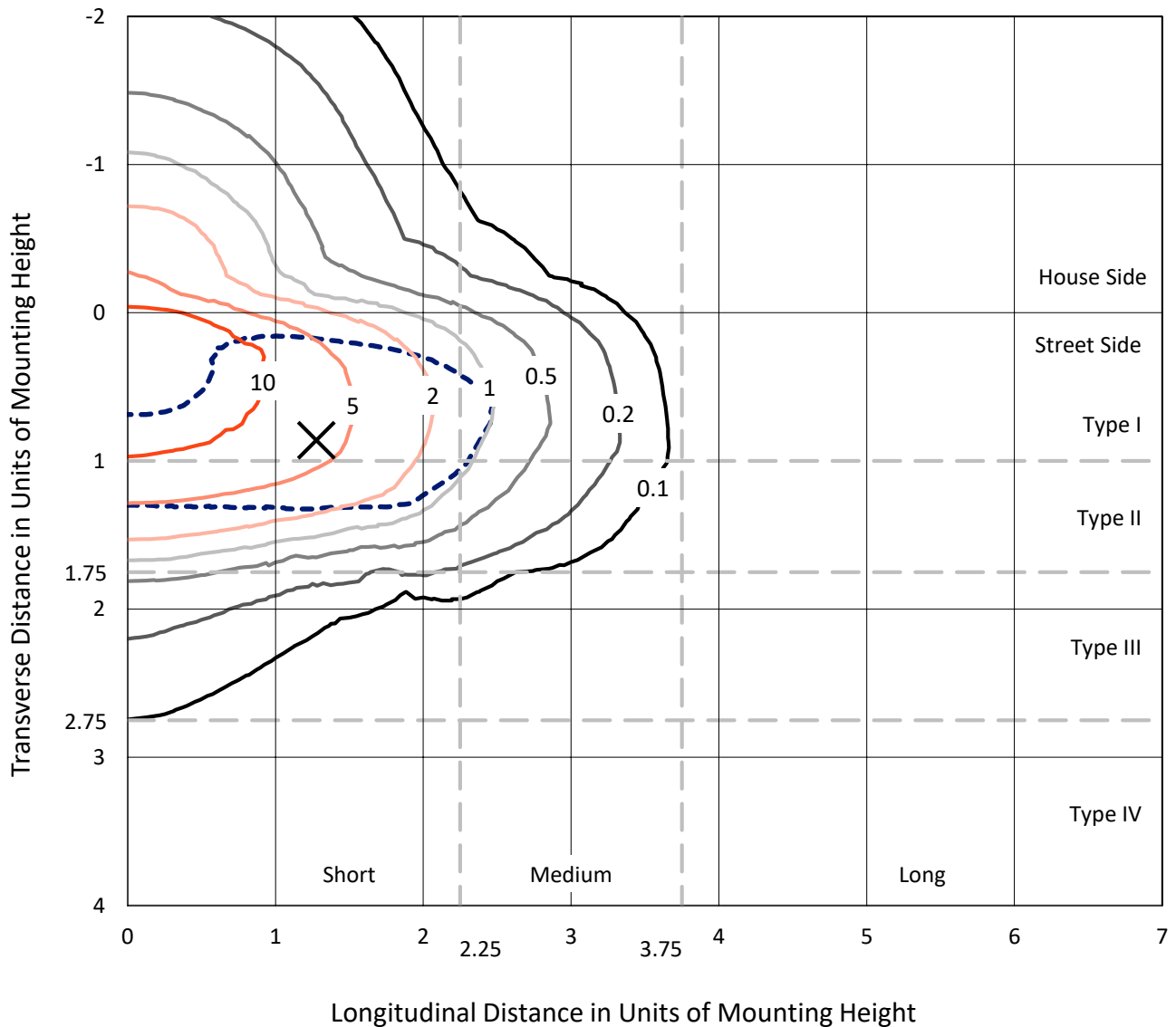
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

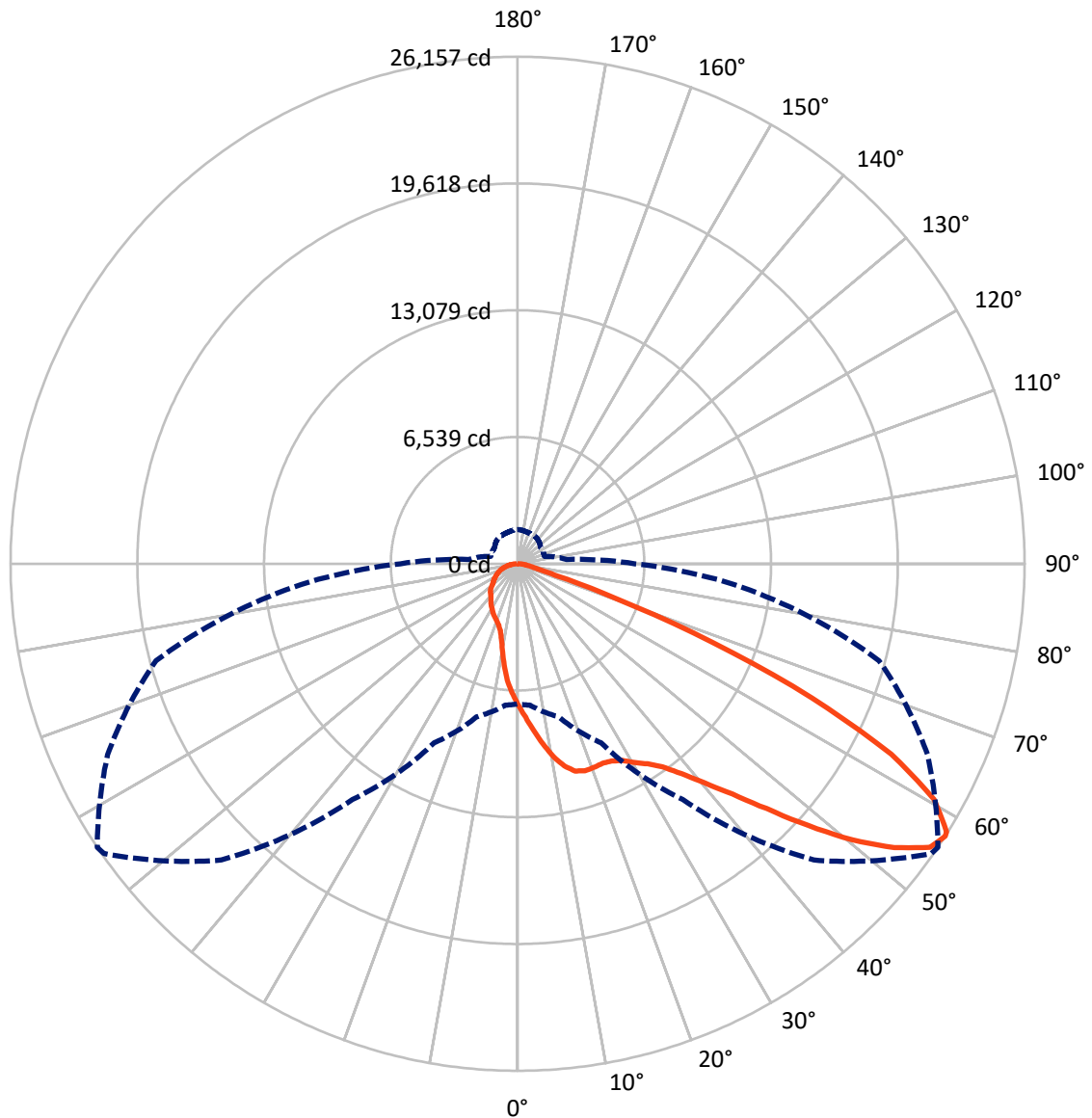
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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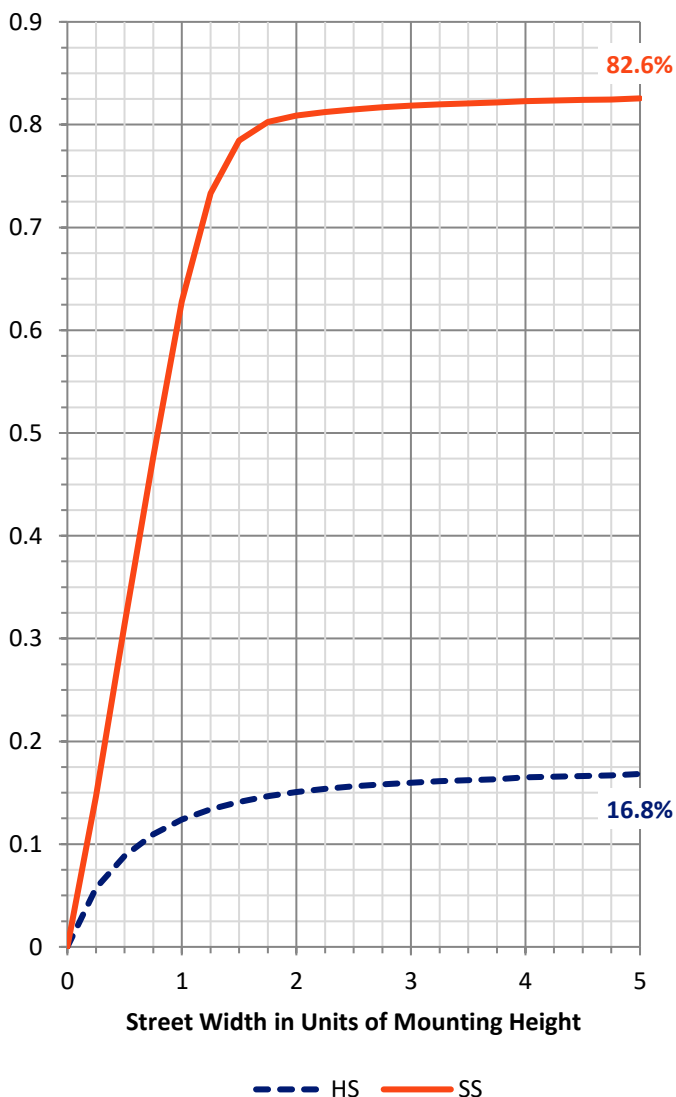
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5693.3	0.0	5693.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	27334.7	0.0	27334.7
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	33028.0	0.0	33028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.8	2.1
10°-20°	1978.4	6.0
20°-30°	3222.5	9.8
30°-40°	4817.3	14.6
40°-50°	7306.8	22.1
50°-60°	8189.6	24.8
60°-70°	4837.1	14.6
70°-80°	1584.8	4.8
80°-90°	391.5	1.2
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°	33028.0	100.0
0°-180°	33028.0	100.0

**Coefficient of Utilization**



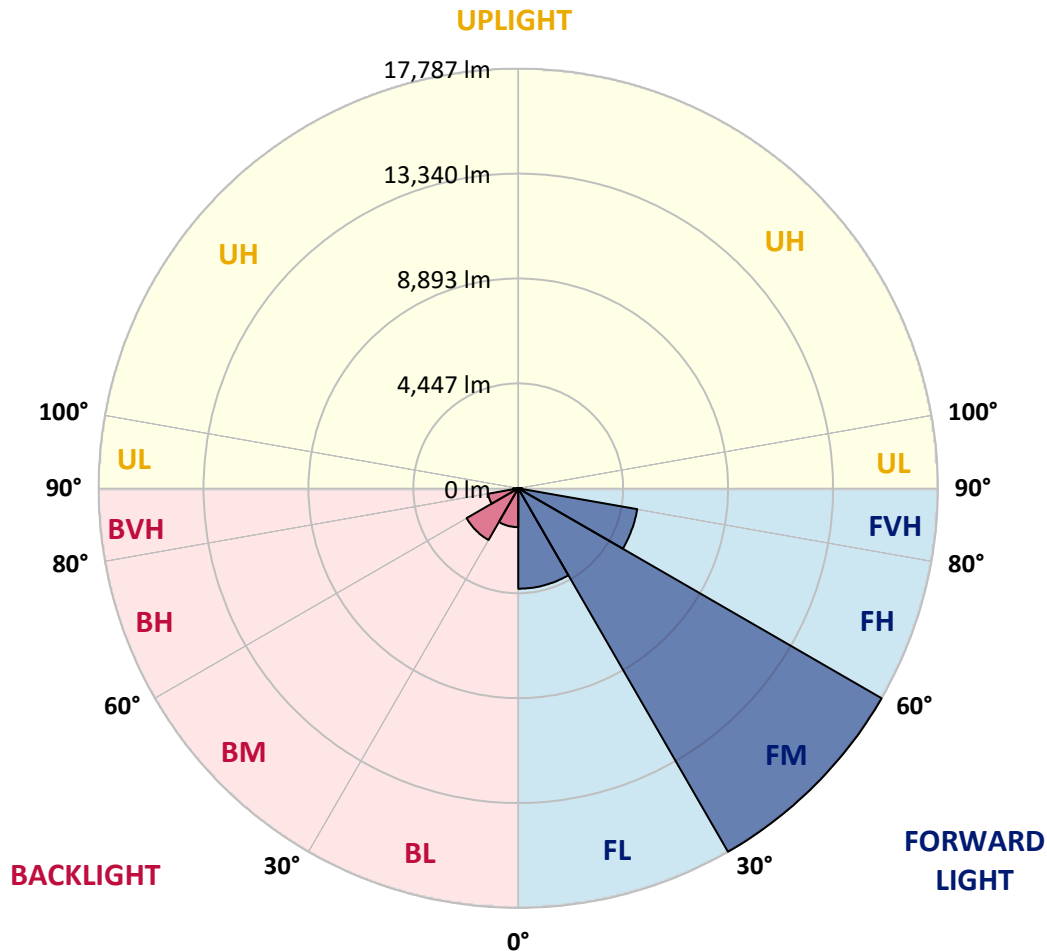
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4254.5	12.9			
FM (30°-60°)	17786.7	53.9			
FH (60°-80°)	5121.1	15.5			G3/7500
FVH (80°-90°)	172.4	0.5			G2/225
BL (0°-30°)	1646.2	5.0	B3/2500		
BM (30°-60°)	2527.1	7.7	B3/5000		
BH (60°-80°)	1300.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	219.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6
2.5°	8411.9	8489.1	8455.0	8337.0	8246.2	8117.9	7974.9	7931.8	7780.8	7611.7	7408.5
5°	9743.3	9704.7	9649.1	9465.2	9271.1	9045.2	8686.6	8629.8	8293.8	7911.3	7507.2
7.5°	10501.5	10498.1	10465.2	10357.4	10180.3	9885.2	9452.7	9385.8	8878.4	8263.2	7636.6
10°	10391.4	10383.5	10438.0	10550.3	10603.7	10542.4	10178.0	10111.1	9487.9	8652.5	7786.5
12.5°	9766.0	9770.5	9857.9	10094.0	10415.3	10801.2	10742.2	10709.2	10120.1	9092.9	7968.1
15°	9279.1	9289.3	9358.5	9564.0	9943.1	10643.4	11084.9	11096.3	10731.9	9578.7	8180.3
17.5°	9065.7	9087.2	9119.0	9263.2	9610.5	10329.0	11166.7	11228.0	11267.7	10082.7	8384.6
20°	9133.8	9154.2	9163.3	9255.2	9540.1	10138.3	11109.9	11220.0	11678.6	10557.1	8589.0
22.5°	9439.1	9451.6	9457.3	9481.1	9702.4	10192.8	11072.5	11188.2	11976.0	10982.8	8743.3
25°	9945.3	9936.3	9899.9	9869.3	10018.0	10408.4	11158.7	11268.8	12217.7	11368.7	8844.3
27.5°	10551.5	10540.1	10469.7	10385.7	10470.9	10744.4	11407.3	11494.7	12434.5	11729.7	8895.4
30°	11279.0	11249.5	11116.7	11016.8	11049.8	11248.4	11817.1	11896.5	12769.4	12139.4	8945.4
32.5°	12120.1	12088.3	11896.5	11730.8	11730.8	11896.5	12239.3	12305.1	13053.1	12602.5	9026.0
35°	13173.4	13133.7	12884.0	12605.9	12527.6	12611.6	12814.8	12861.3	13563.9	13185.9	9172.4
37.5°	14415.2	14361.8	14038.4	13666.1	13494.7	13490.1	13636.5	13731.9	14380.0	13952.1	9421.0
40°	15660.3	15622.9	15340.3	15047.4	14711.4	14603.6	14829.5	14859.0	15447.0	14903.3	9738.8
42.5°	16622.9	16616.1	16563.8	16602.4	16258.5	16040.6	16217.7	16241.5	16750.0	15932.8	10077.0
45°	17131.4	17142.7	17395.8	17956.6	18083.7	17924.8	18012.2	18019.0	18239.2	16971.3	10386.9
47.5°	16723.9	16782.9	17423.1	18677.3	19718.2	20246.0	20100.7	20184.7	19683.0	17863.5	10629.8
50°	15135.9	15208.6	16298.2	18356.1	20480.9	22492.2	22416.2	22396.9	20847.5	18517.3	10761.4
52.5°	13168.9	13225.7	14124.6	16686.4	19921.3	23734.0	24432.0	24332.2	21882.7	19006.5	10786.4
55°	10173.5	10262.0	11123.5	13353.9	17658.0	23259.5	25914.4	25824.8	22825.9	19263.0	10756.9
57°	7232.6	7325.6	8181.5	10191.7	14854.5	21617.1	26062.0	26157.3	23335.6	19306.1	10789.8
57.5°	6453.9	6549.3	7397.1	9349.4	13980.5	21023.5	25934.9	26093.8	23427.5	19299.3	10808.0
60°	3249.7	3286.0	3826.3	5219.0	8837.5	16996.3	24276.5	24686.3	23510.4	18965.6	10886.3
62.5°	2020.4	1994.3	1977.3	2404.0	4299.6	11271.1	20854.4	21643.2	21924.7	18157.5	10696.8
65°	1776.4	1727.6	1540.3	1506.2	1898.9	5474.4	15704.6	16686.4	18536.6	16883.9	10245.0
67.5°	1668.5	1620.9	1409.7	1282.6	1283.7	2170.2	9750.1	10855.7	14440.2	14730.7	9179.2
70°	1557.3	1514.2	1316.7	1166.8	1093.1	1202.0	4485.7	5324.5	9413.0	11578.7	7671.8
72.5°	1414.3	1384.8	1197.5	1043.1	964.8	900.1	1717.3	2028.3	5449.4	7776.3	5327.9
75°	1264.5	1237.2	1077.2	929.6	834.3	708.3	967.1	1042.0	2768.4	3978.4	2623.1
77.5°	1099.9	1084.0	958.0	821.8	745.7	586.8	684.4	720.8	1187.3	1706.0	1315.5
80°	875.1	905.8	837.7	732.1	661.7	469.9	484.7	508.5	691.2	833.1	746.9
82.5°	569.8	623.1	656.1	594.8	544.8	370.0	348.5	358.7	450.6	508.5	324.6
85°	237.2	266.7	431.3	389.3	362.1	270.1	233.8	238.4	279.2	289.4	132.8
87.5°	105.6	112.4	189.6	178.2	153.2	93.1	99.9	109.0	148.7	140.7	51.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6	7325.6
2.5°	7332.5	7237.1	7073.7	6893.2	6745.6	6627.6	6508.4	6426.7	6331.3	6280.3	6254.1
5°	7338.1	7150.8	6806.9	6453.9	6138.4	5850.1	5575.4	5364.3	5166.8	5060.1	5030.6
7.5°	7362.0	7080.5	6524.3	5943.1	5382.4	4870.5	4475.5	4228.1	4049.9	3970.4	3947.7
10°	7381.3	6997.6	6174.7	5314.3	4551.6	4032.8	3726.4	3587.9	3526.6	3516.4	3506.2
12.5°	7426.7	6912.5	5806.9	4658.3	3905.7	3547.0	3440.3	3431.3	3448.3	3473.3	3473.3
15°	7498.2	6828.5	5387.0	4095.3	3494.8	3368.8	3390.4	3440.3	3486.9	3525.5	3531.2
17.5°	7550.4	6725.2	4935.2	3644.7	3275.8	3309.8	3387.0	3457.4	3505.0	3542.5	3545.9
20°	7587.8	6565.2	4452.8	3300.7	3149.8	3255.3	3351.8	3414.2	3447.2	3484.6	3490.3
22.5°	7568.5	6350.6	4024.9	3054.4	3047.6	3175.9	3267.8	3342.7	3317.8	3281.4	3305.3
25°	7475.5	6055.5	3584.5	2870.6	2939.8	3069.2	3182.7	3132.7	3048.8	3032.9	3041.9
27.5°	7309.7	5678.7	3177.0	2700.3	2814.9	2970.4	2963.6	2913.7	2884.2	2863.7	2876.2
30°	7131.5	5270.1	2820.6	2551.6	2676.5	2804.7	2778.6	2777.5	2748.0	2715.0	2730.9
32.5°	6955.6	4859.2	2538.0	2429.0	2572.0	2589.1	2645.8	2662.8	2604.9	2535.7	2531.2
35°	6802.4	4471.0	2323.5	2317.8	2446.0	2448.3	2531.2	2507.3	2363.2	2291.7	2291.7
37.5°	6687.7	4083.9	2160.0	2217.9	2280.3	2339.3	2381.3	2282.6	2258.8	2219.0	2217.9
40°	6637.8	3743.4	2057.9	2141.8	2163.4	2238.3	2130.5	2169.1	2180.4	2160.0	2160.0
42.5°	6585.6	3447.2	1969.3	2084.0	2080.6	2070.3	2015.9	2065.8	2111.2	2112.3	2108.9
45°	6533.4	3191.8	1891.0	1960.2	2007.9	1897.8	1908.0	1961.4	2024.9	2047.6	2047.6
47.5°	6475.5	2989.7	1819.5	1829.7	1903.5	1829.7	1821.8	1862.6	1937.5	1973.9	1981.8
50°	6348.4	2808.1	1737.8	1715.1	1735.5	1760.5	1767.3	1786.6	1869.4	1927.3	1940.9
52.5°	6172.4	2645.8	1633.3	1609.5	1609.5	1703.7	1735.5	1741.2	1811.5	1880.8	1894.4
55°	6026.0	2542.5	1525.5	1521.0	1516.4	1643.6	1698.0	1707.1	1755.9	1810.4	1817.2
57°	6036.2	2534.6	1442.7	1447.2	1446.1	1582.3	1662.9	1682.2	1707.1	1753.7	1761.6
57.5°	6041.9	2540.3	1424.5	1426.8	1425.6	1565.2	1652.6	1674.2	1693.5	1742.3	1750.3
60°	6127.0	2555.0	1350.7	1325.7	1331.4	1474.4	1594.8	1622.0	1634.5	1699.2	1709.4
62.5°	6001.0	2489.2	1291.7	1231.5	1231.5	1379.1	1514.2	1557.3	1576.6	1664.0	1681.0
65°	5635.5	2304.2	1222.5	1124.8	1136.2	1283.7	1417.7	1488.1	1517.6	1626.5	1644.7
67.5°	5071.4	2089.6	1148.7	1029.5	1040.8	1183.9	1317.8	1393.8	1440.4	1585.7	1600.4
70°	4337.0	1827.4	1048.8	928.5	942.1	1074.9	1199.8	1286.0	1355.3	1547.1	1551.6
72.5°	3197.4	1498.3	909.2	817.2	832.0	947.8	1080.6	1180.5	1273.5	1450.6	1448.3
75°	1901.2	1171.4	754.8	704.9	715.1	822.9	972.7	1094.2	1233.8	1413.1	1434.7
77.5°	1153.2	881.9	615.2	590.2	602.7	712.8	895.6	1025.0	1216.8	1332.6	1325.7
80°	696.9	630.0	491.5	475.6	488.1	609.5	828.6	972.7	1063.5	1138.5	1138.5
82.5°	364.4	384.8	360.9	348.5	365.5	494.9	753.7	849.0	939.8	807.0	753.7
85°	148.7	200.9	219.1	217.9	228.1	342.8	650.4	726.4	606.1	575.5	589.1
87.5°	49.9	85.1	106.7	91.9	96.5	215.7	450.6	350.7	416.6	290.6	275.8
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)