

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: P319081

Luminaire Tested: **GAN-SA7B-750-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-750-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40138 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

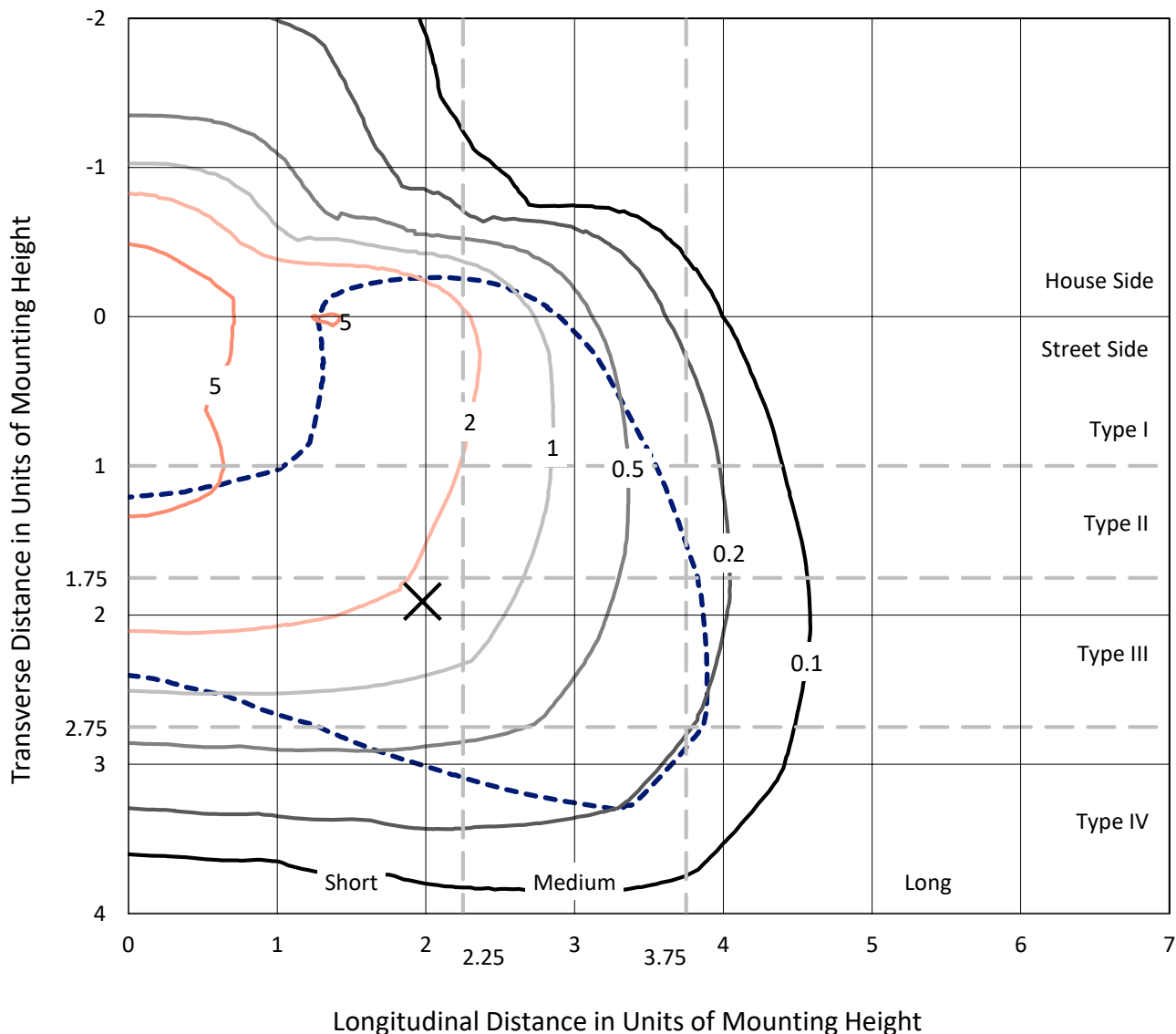
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

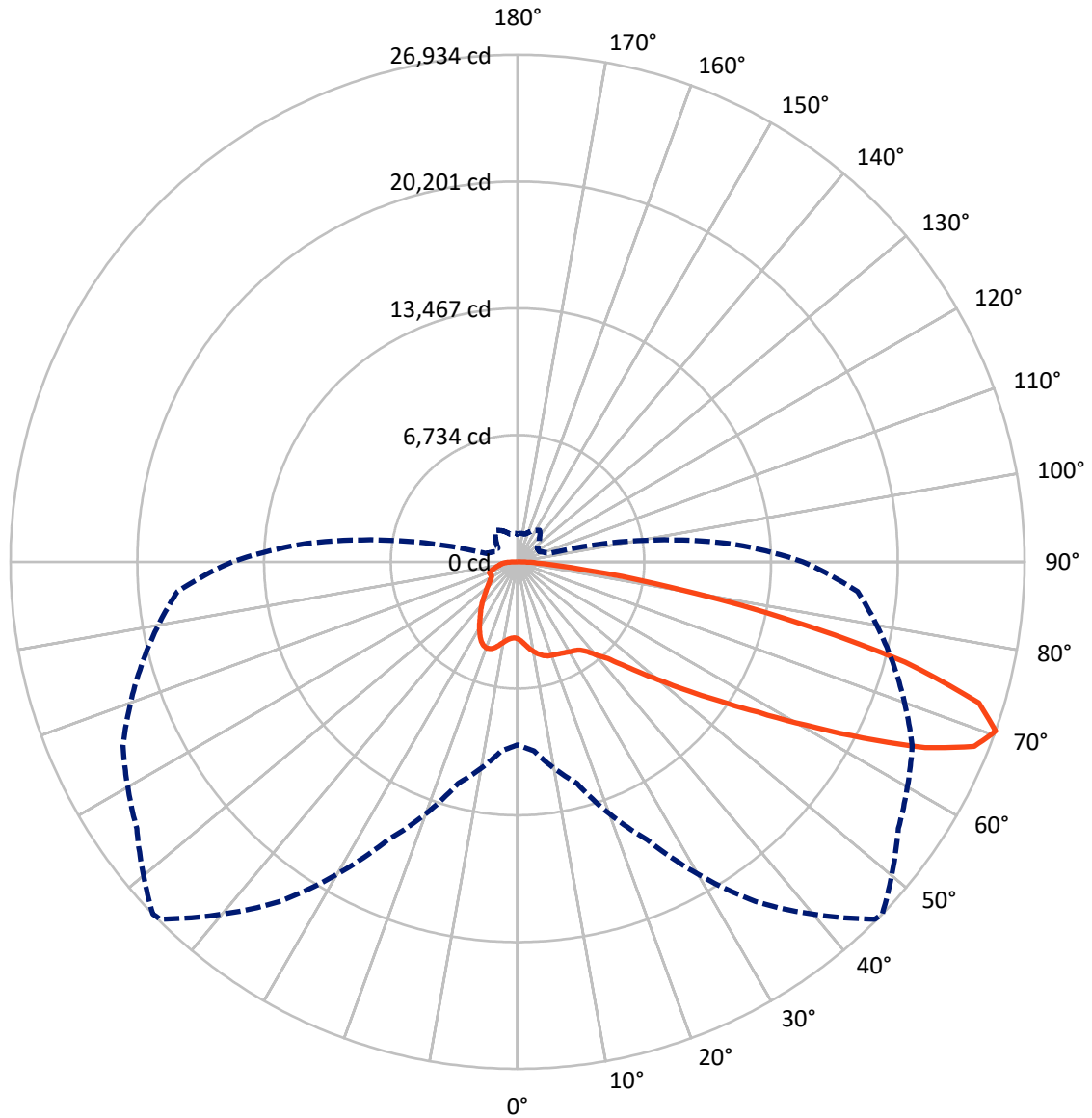
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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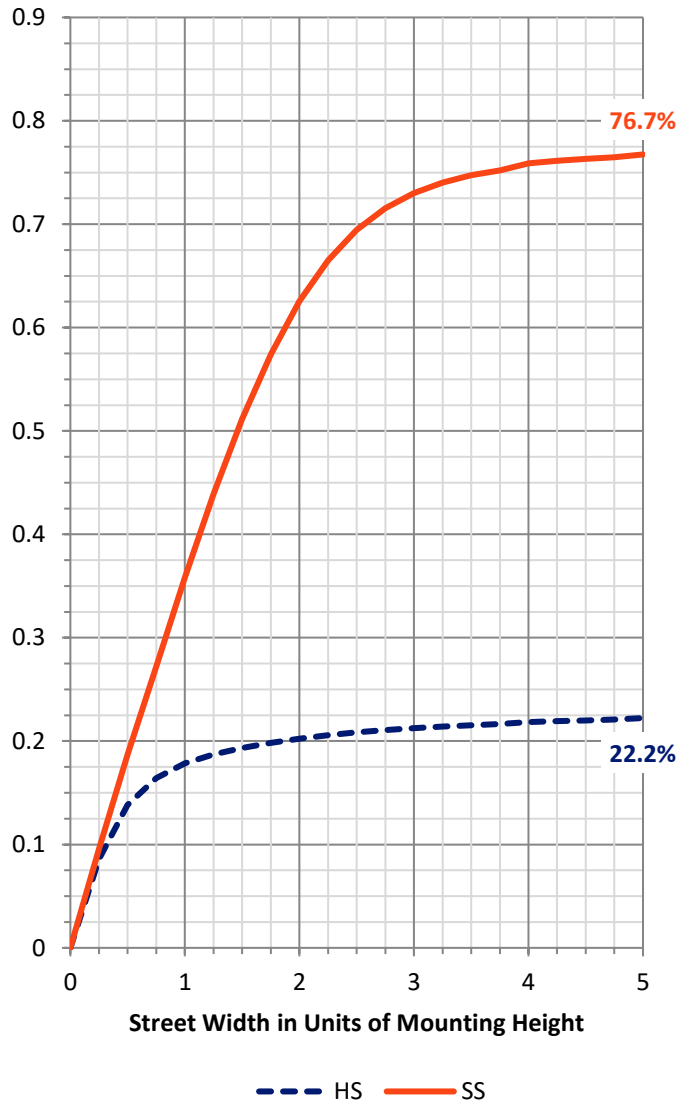
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9199.5	0.0	9199.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	30938.5	0.0	30938.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	40138.0	0.0	40138.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.9	1.0
10°-20°	1388.9	3.5
20°-30°	2315.8	5.8
30°-40°	3286.3	8.2
40°-50°	4833.9	12.0
50°-60°	8186.3	20.4
60°-70°	11620.3	29.0
70°-80°	7059.4	17.6
80°-90°	1030.2	2.6
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°	40138.0	100.0
0°-180°	40138.0	100.0

**Coefficient of Utilization**



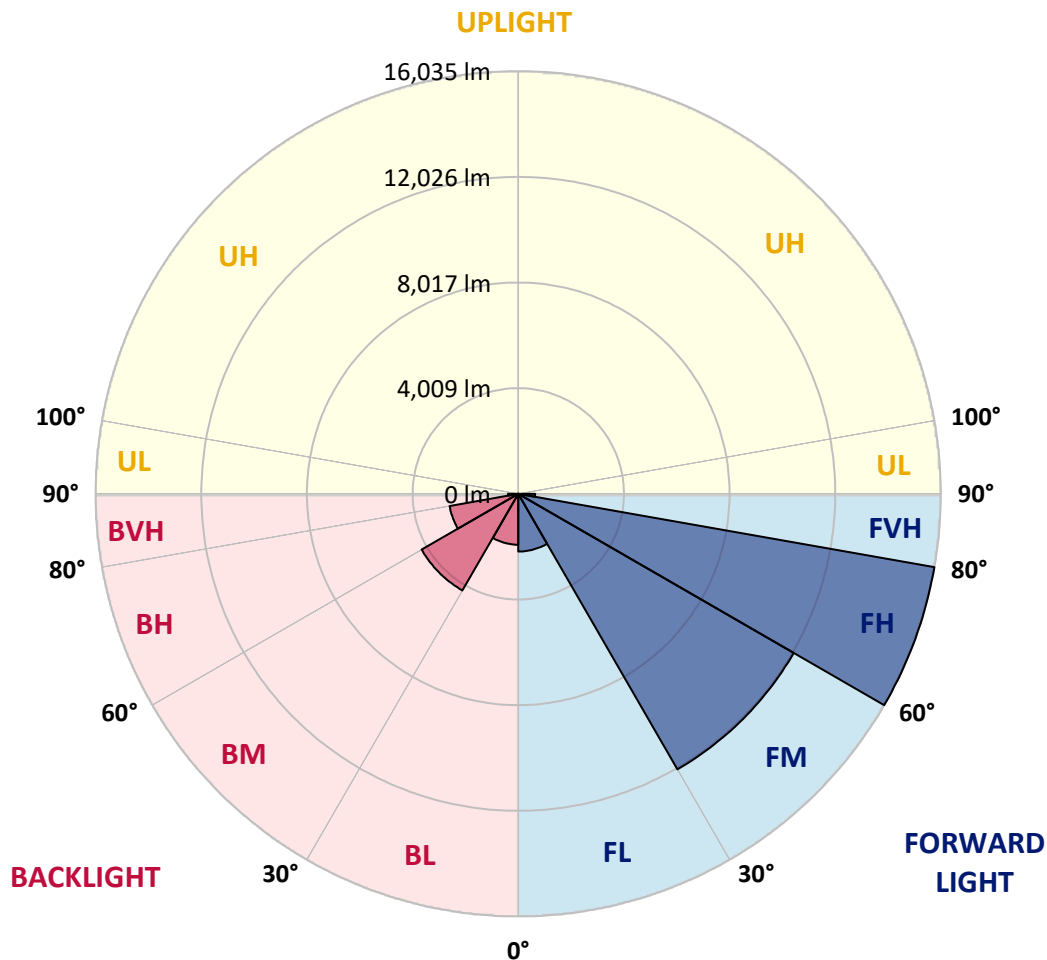
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2190.1	5.5			
FM (30°-60°)	12071.7	30.1			
FH (60°-80°)	16034.9	39.9			G5
FVH (80°-90°)	641.7	1.6			G4/750
BL (0°-30°)	1931.5	4.8	B3/2500		
BM (30°-60°)	4234.8	10.6	B3/5000		
BH (60°-80°)	2644.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	388.5	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3
2.5°	4293.9	4296.7	4302.2	4288.5	4250.0	4239.0	4234.9	4195.0	4168.9	4130.5	4097.5
5°	4637.4	4640.1	4631.9	4593.4	4508.2	4445.0	4439.6	4348.9	4266.5	4178.6	4112.6
7.5°	4995.9	5000.0	4973.9	4901.1	4781.6	4671.7	4664.8	4541.2	4416.2	4283.0	4184.1
10°	5313.2	5296.7	5254.1	5152.5	5011.0	4876.4	4870.9	4741.7	4597.5	4436.8	4304.9
12.5°	5524.7	5511.0	5456.0	5332.4	5177.2	5053.6	5042.6	4923.1	4783.0	4607.1	4449.2
15°	5641.5	5651.1	5576.9	5436.8	5285.7	5181.3	5171.7	5086.5	4961.5	4784.3	4603.0
17.5°	5656.6	5664.8	5593.4	5454.7	5331.0	5259.6	5255.5	5199.2	5108.5	4938.2	4748.6
20°	5568.7	5574.2	5515.1	5401.1	5320.0	5298.1	5296.7	5272.0	5204.7	5053.6	4869.5
22.5°	5440.9	5445.0	5402.5	5320.0	5292.6	5326.9	5336.5	5326.9	5278.8	5137.4	4964.3
25°	5409.3	5406.6	5362.6	5278.8	5302.2	5375.0	5387.4	5391.5	5358.5	5234.9	5085.2
27.5°	5561.8	5552.2	5468.4	5333.8	5348.9	5436.8	5453.3	5493.1	5472.5	5364.0	5222.5
30°	6002.7	5986.3	5814.5	5542.6	5468.4	5513.7	5534.3	5597.5	5601.6	5511.0	5405.2
32.5°	6747.2	6726.6	6418.9	5932.7	5670.3	5592.0	5611.3	5706.0	5756.9	5686.8	5572.8
35°	7688.2	7664.8	7261.0	6596.1	6008.2	5741.7	5755.5	5831.0	5932.7	5833.8	5682.7
37.5°	8668.9	8612.6	8223.9	7376.4	6545.3	6061.8	6061.8	6071.4	6119.5	5913.4	5811.8
40°	9644.2	9587.9	9236.2	8293.9	7240.4	6565.9	6534.3	6321.4	6283.0	6105.8	6071.4
42.5°	10550.8	10534.3	10326.9	9331.0	8056.3	7061.8	7017.8	6656.6	6664.8	6554.9	6556.3
45°	11515.1	11515.1	11346.1	10377.7	9006.8	7858.5	7814.5	7283.0	7365.4	7314.5	7436.8
47.5°	12302.2	12326.9	12303.5	11468.4	10112.6	8870.9	8791.2	8151.1	8381.8	8556.3	8912.1
50°	13105.7	13144.2	13148.3	12664.8	11449.2	10074.2	9983.5	9303.6	9818.7	10318.7	11017.8
52.5°	14271.9	14358.5	14013.7	13858.5	13086.5	11502.7	11413.4	10785.7	11645.6	12347.5	13552.2
55°	15353.0	15277.4	15031.6	15127.7	14839.3	13129.1	13061.8	12511.0	13681.3	14593.4	16157.9
57.5°	15938.2	15932.7	16179.9	16592.0	16729.4	15134.6	15078.3	14542.5	15976.6	16662.1	18604.4
60°	16625.0	16634.6	17247.2	18182.7	18748.6	17631.8	17607.1	17200.5	18206.0	18593.4	20523.3
62.5°	16721.1	16894.2	17949.1	19559.0	20638.7	20549.4	20604.3	19594.7	20200.5	20134.6	21956.0
65°	15615.3	15843.4	17752.7	19975.2	22517.8	23740.3	23791.2	22002.7	21773.3	21451.9	22468.4
67.5°	13348.9	13686.8	15761.0	19070.0	23137.3	26098.8	26170.3	23869.5	23078.2	21898.3	21234.8
70°	9714.3	10089.3	12177.2	16287.1	22032.9	26853.0	26934.0	24695.0	23127.7	20627.7	18127.7
72.5°	5868.1	6162.1	7883.2	11990.4	18596.1	25479.3	25623.6	23648.3	21115.3	17472.5	13386.0
75°	2576.9	2769.2	3811.8	6909.3	13313.2	21081.0	21260.9	20241.7	17156.6	12697.8	7912.1
77.5°	1097.5	1152.5	1563.2	3001.4	7526.1	14405.2	14652.4	14789.8	11640.1	6909.3	3343.4
80°	684.1	706.0	884.6	1358.5	3522.0	8090.6	8357.1	8701.9	5780.2	2539.8	1167.6
82.5°	416.2	440.9	587.9	821.4	1833.8	3667.6	3795.3	4038.5	2243.1	1097.5	604.4
85°	250.0	267.9	359.9	519.2	1044.0	1442.3	1440.9	1593.4	1056.3	706.0	318.7
87.5°	119.5	133.2	192.3	269.2	526.1	541.2	506.9	574.2	641.5	462.9	160.7
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°	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3	4089.3
2.5°	4086.5	4081.0	4063.2	4049.4	4046.7	4038.5	4031.6	4035.7	4041.2	4042.6	4042.6
5°	4085.2	4070.0	4046.7	4037.1	4049.4	4065.9	4086.5	4114.0	4130.5	4142.8	4151.1
7.5°	4151.1	4122.2	4096.1	4090.7	4115.4	4159.3	4206.0	4263.7	4303.6	4331.0	4336.5
10°	4261.0	4225.3	4199.2	4204.7	4248.6	4311.8	4377.7	4451.9	4512.4	4549.4	4552.2
12.5°	4387.4	4353.0	4328.3	4351.6	4424.4	4501.4	4570.0	4634.6	4689.5	4726.6	4726.6
15°	4533.0	4508.2	4479.4	4533.0	4631.9	4700.5	4729.4	4761.0	4791.2	4818.7	4813.2
17.5°	4673.1	4649.7	4634.6	4697.8	4800.8	4832.4	4813.2	4789.8	4789.8	4804.9	4807.7
20°	4793.9	4773.3	4783.0	4844.8	4898.3	4865.4	4793.9	4719.8	4689.5	4697.8	4706.0
22.5°	4899.7	4890.1	4918.9	4947.8	4909.3	4793.9	4662.1	4561.8	4524.7	4522.0	4524.7
25°	5023.3	5022.0	5057.7	5005.5	4835.2	4622.2	4445.0	4347.5	4326.9	4343.4	4370.9
27.5°	5177.2	5192.3	5210.2	5019.2	4684.1	4362.6	4182.7	4115.4	4136.0	4175.8	4201.9
30°	5373.6	5414.8	5376.4	4984.9	4467.0	4065.9	3894.2	3875.0	3931.3	3987.6	4015.1
32.5°	5564.5	5629.1	5535.7	4895.6	4186.8	3751.4	3618.1	3612.6	3681.3	3736.3	3774.7
35°	5718.4	5846.1	5655.2	4718.4	3862.6	3461.5	3364.0	3326.9	3351.6	3416.2	3460.2
37.5°	5918.9	6131.9	5737.6	4447.8	3511.0	3222.5	3108.5	3023.3	3001.4	3027.5	3049.4
40°	6285.7	6567.3	5776.1	4070.0	3167.6	2983.5	2868.1	2743.1	2656.6	2593.4	2594.8
42.5°	6884.6	7134.6	5751.4	3611.3	2850.3	2750.0	2619.5	2475.3	2335.2	2192.3	2181.3
45°	7857.1	7978.0	5677.2	3125.0	2571.4	2505.5	2383.2	2239.0	2052.2	1890.1	1875.0
47.5°	9413.4	9145.6	5561.8	2700.5	2325.5	2298.1	2185.4	2019.2	1821.4	1690.9	1679.9
50°	11535.7	10831.0	5505.5	2362.6	2108.5	2116.8	2024.7	1848.9	1662.1	1565.9	1554.9
52.5°	14074.1	12793.9	5614.0	2101.6	1934.1	1962.9	1894.2	1729.4	1572.8	1497.2	1486.3
55°	16707.4	14826.9	5730.8	1912.1	1769.2	1825.5	1802.2	1666.2	1524.7	1454.7	1445.1
57.5°	18961.5	16344.7	5497.2	1758.2	1622.2	1710.2	1730.8	1626.4	1500.0	1436.8	1425.8
60°	20380.4	16956.0	4884.6	1614.0	1505.5	1618.1	1689.6	1615.4	1509.6	1504.1	1495.9
62.5°	21053.5	16902.4	3965.7	1500.0	1432.7	1578.3	1719.8	1677.2	1619.5	1669.0	1673.1
65°	20751.3	16094.7	2953.3	1424.4	1380.5	1593.4	1810.4	1794.0	1651.1	1700.5	1707.4
67.5°	18762.3	14167.6	2186.8	1358.5	1322.8	1636.0	1975.3	1832.4	1589.3	1625.0	1603.0
70°	15164.8	11232.1	1686.8	1284.3	1263.7	1630.5	2049.4	1809.1	1522.0	1530.2	1471.2
72.5°	10457.4	7659.3	1372.2	1215.7	1178.6	1486.3	1997.2	1751.4	1465.7	1402.5	1324.2
75°	5686.8	4111.3	1166.2	1144.2	1028.8	1304.9	1901.1	1710.2	1414.8	1331.0	1287.1
77.5°	2237.6	1706.0	1012.4	1046.7	899.7	1152.5	1794.0	1631.9	1344.8	1234.9	1212.9
80°	913.5	870.9	839.3	905.2	773.3	1008.2	1664.8	1539.8	1261.0	1145.6	1101.6
82.5°	517.9	541.2	652.5	714.3	627.7	928.6	1603.0	1465.7	1160.7	1026.1	973.9
85°	265.1	317.3	454.7	512.4	461.5	789.8	1476.6	1283.0	931.3	785.7	789.8
87.5°	127.7	177.2	287.1	321.4	299.4	571.4	1103.0	929.9	725.3	574.2	556.3
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)