

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: P317711

Luminaire Tested: **GAN-SA7A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30693 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

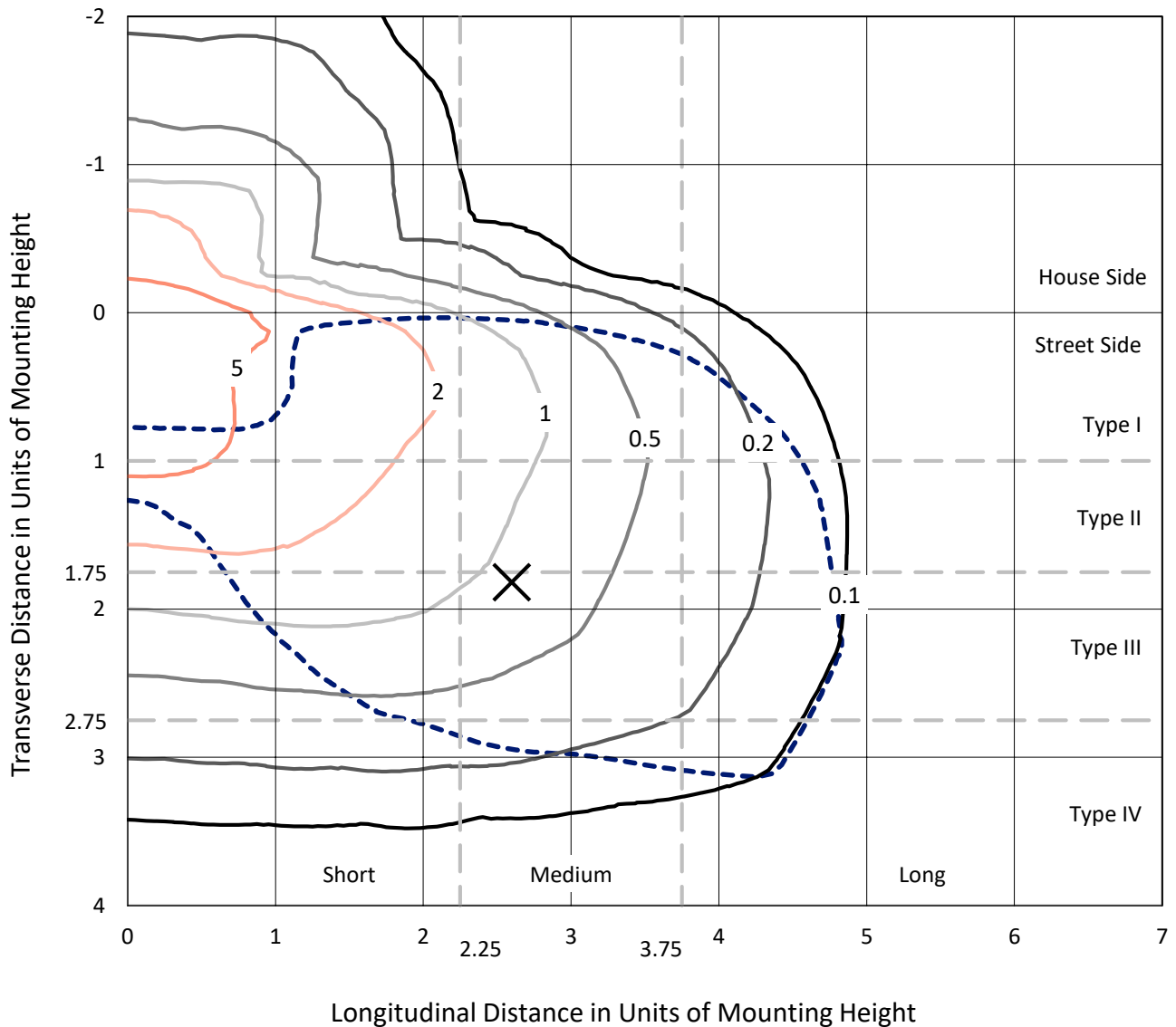
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

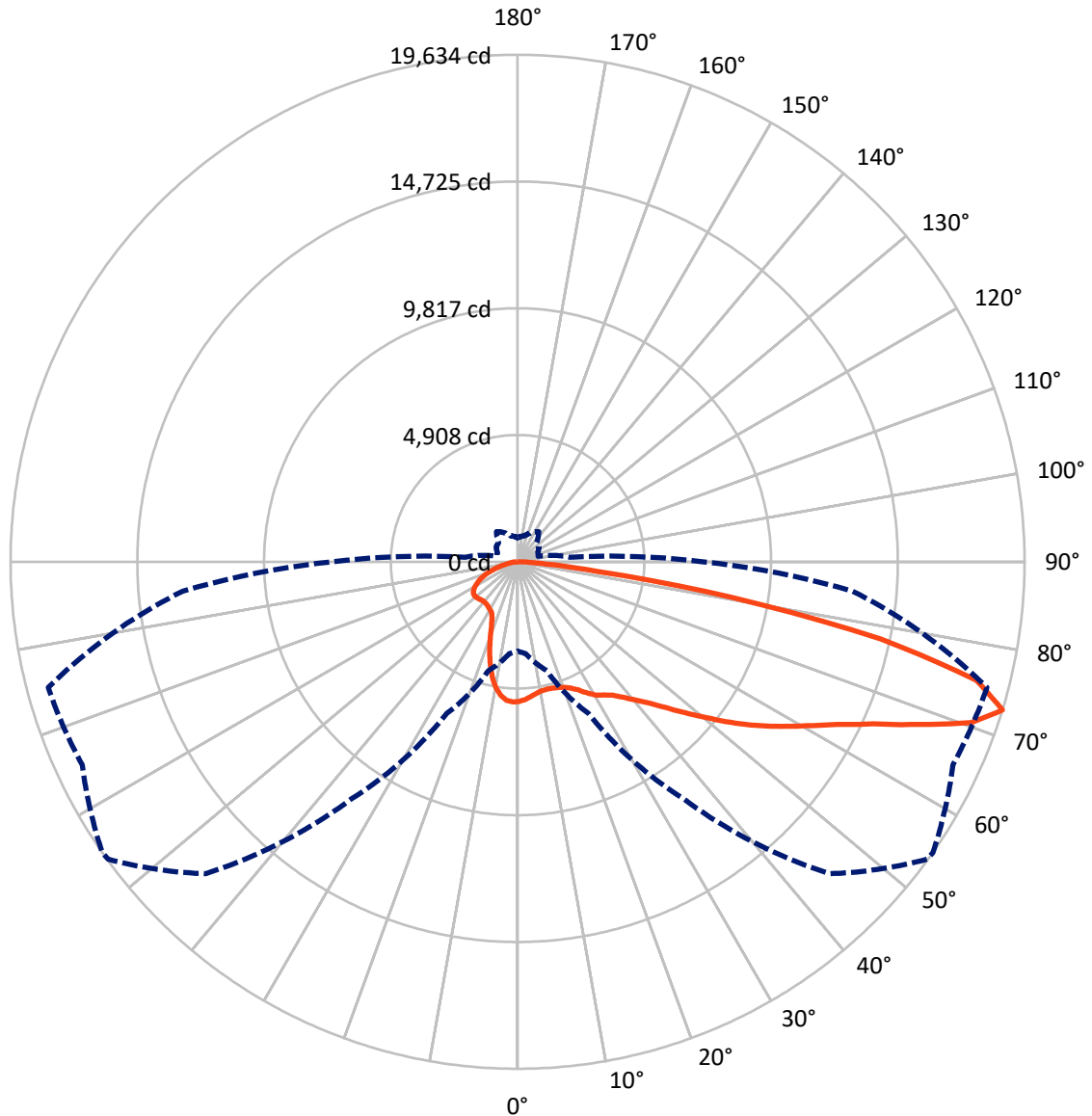
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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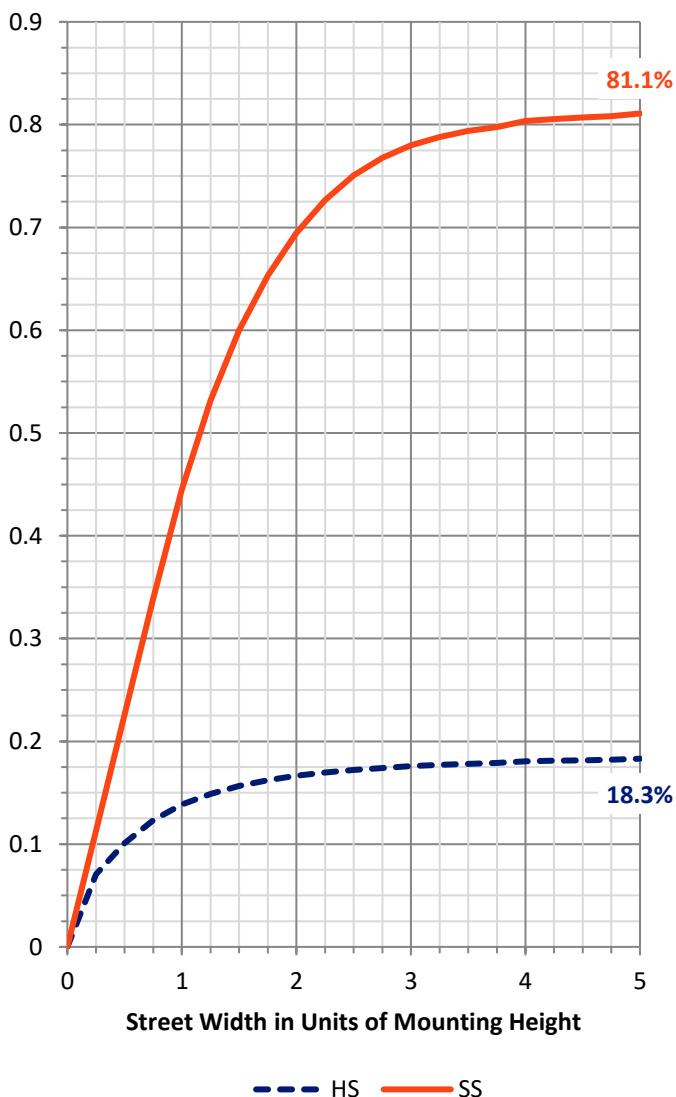
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5704.8	0.0	5704.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24988.2	0.0	24988.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	30693.0	0.0	30693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.9	1.6
10°-20°	1304.2	4.2
20°-30°	2150.3	7.0
30°-40°	3180.8	10.4
40°-50°	4439.8	14.5
50°-60°	5780.7	18.8
60°-70°	7104.4	23.1
70°-80°	5569.0	18.1
80°-90°	673.9	2.2
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°	30693.0	100.0
0°-180°	30693.0	100.0

Coefficient of Utilization

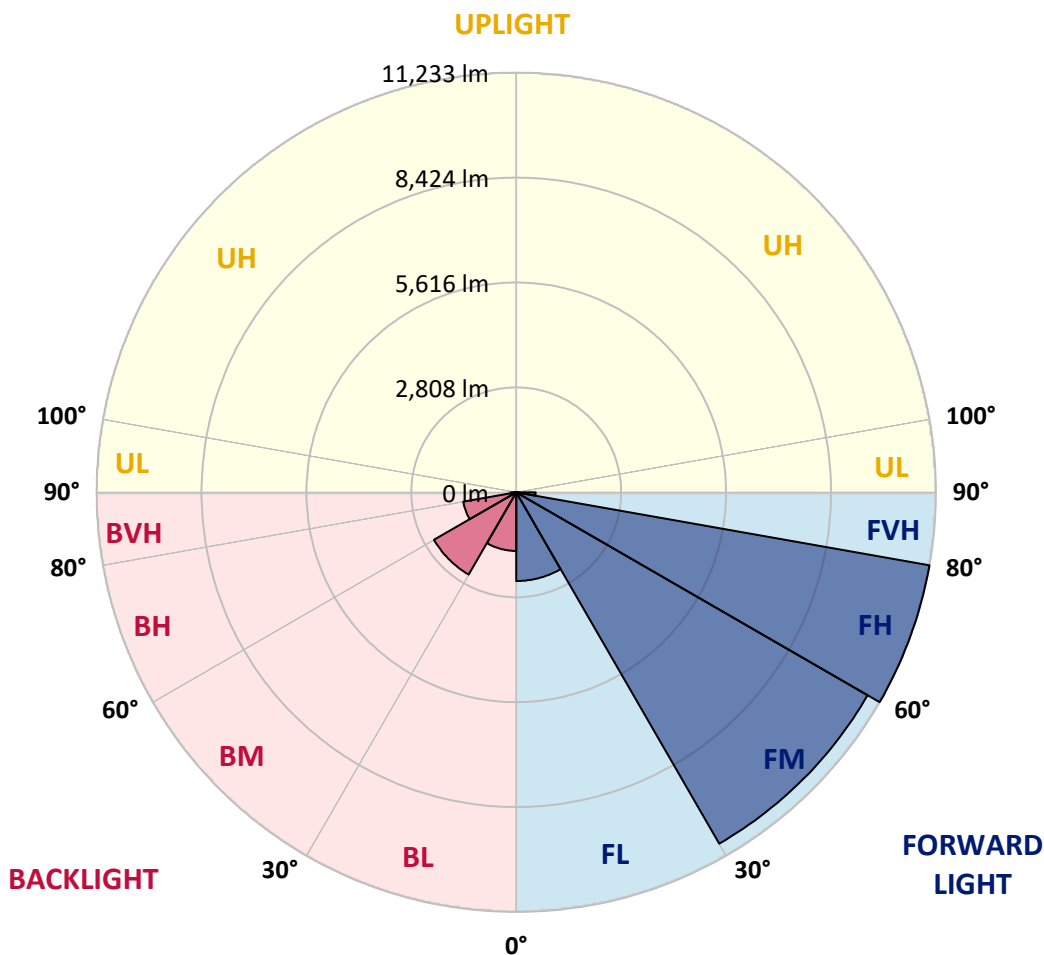


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.7	7.7			
FM (30°-60°)	10859.8	35.4			
FH (60°-80°)	11232.6	36.6			G4/12000
FVH (80°-90°)	521.0	1.7			G4/750
BL (0°-30°)	1569.6	5.1	B3/2500		
BM (30°-60°)	2541.6	8.3	B3/5000		
BH (60°-80°)	1440.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	152.9	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6
2.5°	5237.3	5224.9	5240.5	5262.2	5286.1	5318.2	5336.9	5345.2	5377.3	5389.7	5416.7
5°	4994.8	4988.5	5014.5	5051.8	5104.7	5179.3	5239.4	5250.8	5335.8	5396.0	5450.9
7.5°	4818.5	4818.5	4848.6	4893.2	4952.3	5052.8	5137.8	5153.4	5297.5	5427.1	5528.7
10°	4678.6	4683.8	4719.0	4771.9	4841.3	4948.1	5061.1	5078.7	5287.1	5499.6	5661.4
12.5°	4585.3	4597.7	4629.8	4677.5	4763.6	4893.2	5036.2	5060.1	5308.9	5603.3	5821.0
15°	4644.4	4665.1	4668.2	4687.9	4735.6	4876.6	5050.7	5075.6	5355.5	5709.0	6002.4
17.5°	4903.5	4910.8	4878.7	4837.2	4814.4	4904.6	5094.3	5120.2	5411.5	5813.7	6176.6
20°	5297.5	5293.3	5223.9	5111.9	4995.8	5010.3	5165.8	5192.8	5487.2	5906.0	6350.8
22.5°	5795.1	5780.6	5673.8	5467.5	5269.5	5186.6	5291.3	5314.1	5601.2	6037.7	6537.4
25°	6398.4	6366.3	6225.3	5948.5	5657.2	5443.6	5479.9	5501.7	5767.1	6184.9	6708.4
27.5°	7035.0	7002.8	6823.5	6488.6	6100.9	5768.1	5740.1	5758.8	5955.8	6293.7	6834.9
30°	7700.5	7666.3	7502.5	7127.2	6571.6	6104.0	5982.7	5990.0	6088.5	6352.8	6938.6
32.5°	8369.2	8337.0	8153.6	7718.1	7082.7	6464.8	6157.9	6148.6	6168.3	6414.0	7055.7
35°	9047.2	9059.6	8845.0	8363.0	7648.7	6866.0	6365.3	6345.6	6302.0	6539.4	7221.6
37.5°	9772.9	9764.6	9486.7	8982.9	8240.6	7301.4	6662.8	6659.7	6509.4	6776.8	7481.8
40°	10258.0	10263.2	10094.2	9617.4	8838.8	7783.5	7044.3	7037.0	6840.1	7132.4	7822.8
42.5°	10447.7	10482.0	10525.5	10222.8	9465.0	8342.2	7499.4	7489.0	7301.4	7642.5	8224.0
45°	10461.2	10529.6	10799.2	10760.8	10099.4	8981.9	8081.0	8052.0	7917.2	8320.5	8703.0
47.5°	10345.1	10415.6	10863.5	11081.2	10666.5	9656.7	8761.1	8738.2	8622.1	9168.5	9221.3
50°	10091.1	10158.5	10730.8	11237.7	11133.0	10305.7	9544.8	9484.7	9422.5	10148.1	9814.3
52.5°	9615.3	9744.9	10553.5	11275.0	11411.9	10882.1	10369.0	10329.6	10363.8	11181.7	10408.3
55°	8488.4	8633.5	10096.3	11243.9	11618.2	11366.2	11193.1	11191.0	11368.3	12266.1	11045.9
57.5°	7857.1	7959.7	9165.4	11191.0	11862.8	11847.3	12009.0	12028.7	12373.9	13446.9	11713.5
60°	7500.4	7608.3	8693.7	10995.1	12242.2	12469.3	12841.5	12880.8	13396.1	14754.1	12517.0
62.5°	7176.0	7294.1	8401.3	10596.0	12689.1	13358.8	13838.7	13874.0	14478.4	16097.7	13293.5
65°	6621.3	6755.1	7973.2	10333.7	13095.4	14518.8	15106.6	15130.5	15721.4	17505.5	13887.5
67.5°	5837.6	5959.9	7165.6	9754.2	13396.1	15927.7	16792.3	16805.7	16954.0	18499.7	14191.2
70°	4922.2	4968.8	6014.9	8557.9	13040.5	17245.3	18639.7	18642.8	18077.8	19136.2	14141.5
72.5°	3458.4	3568.3	4366.5	6478.3	11206.6	17084.6	19598.6	19633.8	18600.3	18814.9	13011.5
75°	2121.1	2237.2	2738.9	3925.9	7109.6	13436.5	18107.8	18352.5	17620.6	16775.7	10629.2
77.5°	1418.2	1461.7	1787.3	2289.0	3221.0	7730.6	13921.7	14382.0	14638.0	12234.0	6797.6
80°	791.0	873.9	1184.9	1422.3	1432.7	3071.7	8347.4	8455.2	8144.2	4871.4	2097.2
82.5°	418.8	464.4	791.0	835.6	781.7	1028.4	3111.1	3114.2	2602.1	1306.2	623.0
85°	324.5	362.8	542.2	510.1	399.1	456.1	1026.3	1082.3	885.3	534.9	203.2
87.5°	161.7	201.1	368.0	323.4	156.5	130.6	367.0	391.9	349.4	209.4	73.6
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°	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6	5413.6
2.5°	5427.1	5436.4	5447.8	5435.4	5431.2	5414.6	5386.6	5380.4	5365.9	5366.9	5375.2
5°	5474.7	5490.3	5484.1	5436.4	5379.4	5299.5	5216.6	5146.1	5099.5	5096.4	5093.2
7.5°	5566.0	5576.3	5527.6	5391.8	5232.2	5047.6	4873.5	4721.1	4628.8	4606.0	4600.8
10°	5709.0	5707.0	5573.2	5299.5	4981.3	4651.6	4371.7	4160.2	4036.9	4000.6	3991.2
12.5°	5868.7	5844.8	5588.8	5131.6	4626.7	4169.6	3815.0	3579.7	3451.1	3409.7	3399.3
15°	6033.5	5974.4	5550.4	4880.7	4191.3	3650.2	3278.0	3060.3	2990.8	2968.0	2963.9
17.5°	6187.0	6072.9	5440.5	4540.7	3694.8	3132.9	2842.6	2755.5	2772.1	2802.2	2803.2
20°	6337.3	6139.3	5264.3	4111.5	3171.2	2706.8	2608.3	2672.6	2751.4	2812.5	2820.8
22.5°	6485.5	6185.9	5037.3	3616.0	2702.6	2467.3	2536.8	2653.9	2744.1	2810.5	2821.9
25°	6609.9	6197.3	4724.2	3087.3	2377.1	2377.1	2502.6	2613.5	2702.6	2768.0	2779.4
27.5°	6655.5	6120.6	4282.6	2597.9	2213.3	2335.7	2454.9	2547.1	2622.8	2692.3	2704.7
30°	6673.2	5978.6	3772.5	2205.0	2145.9	2291.1	2390.6	2469.4	2540.9	2606.2	2617.6
32.5°	6676.3	5807.5	3231.4	1982.1	2099.3	2244.4	2310.8	2380.2	2457.0	2482.9	2487.0
35°	6696.0	5605.4	2661.2	1868.1	2055.8	2200.9	2253.8	2303.5	2179.1	2188.4	2196.7
37.5°	6753.0	5405.3	2184.3	1803.8	2027.8	2178.1	2241.3	2060.9	1963.5	1940.7	1937.6
40°	6859.8	5191.7	1830.8	1752.0	2017.4	2189.5	2161.5	1924.1	1756.1	1630.7	1612.0
42.5°	7008.0	4961.6	1604.8	1717.8	2024.7	2244.4	2050.6	1792.4	1513.6	1432.7	1422.3
45°	7174.9	4720.0	1482.5	1693.9	2049.5	2286.9	2027.8	1617.2	1400.6	1339.4	1334.2
47.5°	7336.6	4424.6	1419.2	1683.6	2083.7	2252.7	1931.3	1563.3	1346.7	1314.5	1317.6
50°	7522.2	4158.2	1380.9	1672.2	2113.8	2231.0	1822.5	1535.3	1325.9	1365.3	1406.8
52.5°	7678.7	3882.4	1346.7	1649.4	2125.2	2192.6	1794.5	1540.5	1325.9	1401.6	1441.0
55°	7864.3	3674.0	1307.3	1601.7	2103.4	2083.7	1774.8	1571.6	1341.5	1293.8	1297.9
57.5°	8103.8	3605.6	1263.7	1527.0	2030.9	1925.1	1765.5	1601.7	1332.1	1302.1	1312.4
60°	8435.5	3678.2	1246.1	1429.6	1917.9	1800.7	1766.5	1586.1	1266.8	1215.0	1216.0
62.5°	8751.7	3759.0	1245.1	1368.4	1779.0	1689.8	1742.7	1535.3	1233.7	1203.6	1215.0
65°	8855.4	3677.1	1195.3	1300.0	1622.4	1557.1	1699.1	1481.4	1208.8	1163.2	1161.1
67.5°	8716.5	3423.1	1094.7	1189.1	1443.1	1402.6	1642.1	1417.2	1169.4	1132.1	1125.8
70°	8303.9	2856.1	970.3	1042.9	1238.8	1228.5	1551.9	1342.5	1116.5	1084.4	1057.4
72.5°	7193.6	2035.0	817.9	867.7	1008.7	1041.9	1427.5	1245.1	1041.9	972.4	930.9
75°	5908.1	1506.3	671.8	682.1	766.1	856.3	1256.5	1131.0	953.8	835.6	803.4
77.5°	3618.0	921.6	534.9	539.1	549.4	683.2	1034.6	1003.5	841.8	696.7	673.8
80°	1171.5	502.8	386.7	406.4	375.3	500.7	800.3	854.2	722.6	582.6	557.7
82.5°	445.8	293.4	261.2	274.7	260.2	335.9	583.7	684.2	591.9	478.9	389.8
85°	215.6	165.9	154.5	173.1	160.7	172.1	373.2	503.8	448.9	312.0	290.3
87.5°	76.7	73.6	59.1	79.8	68.4	61.2	114.0	254.0	296.5	214.6	191.8
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)