

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: P318061

Luminaire Tested: **GAN-SA7D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49048 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

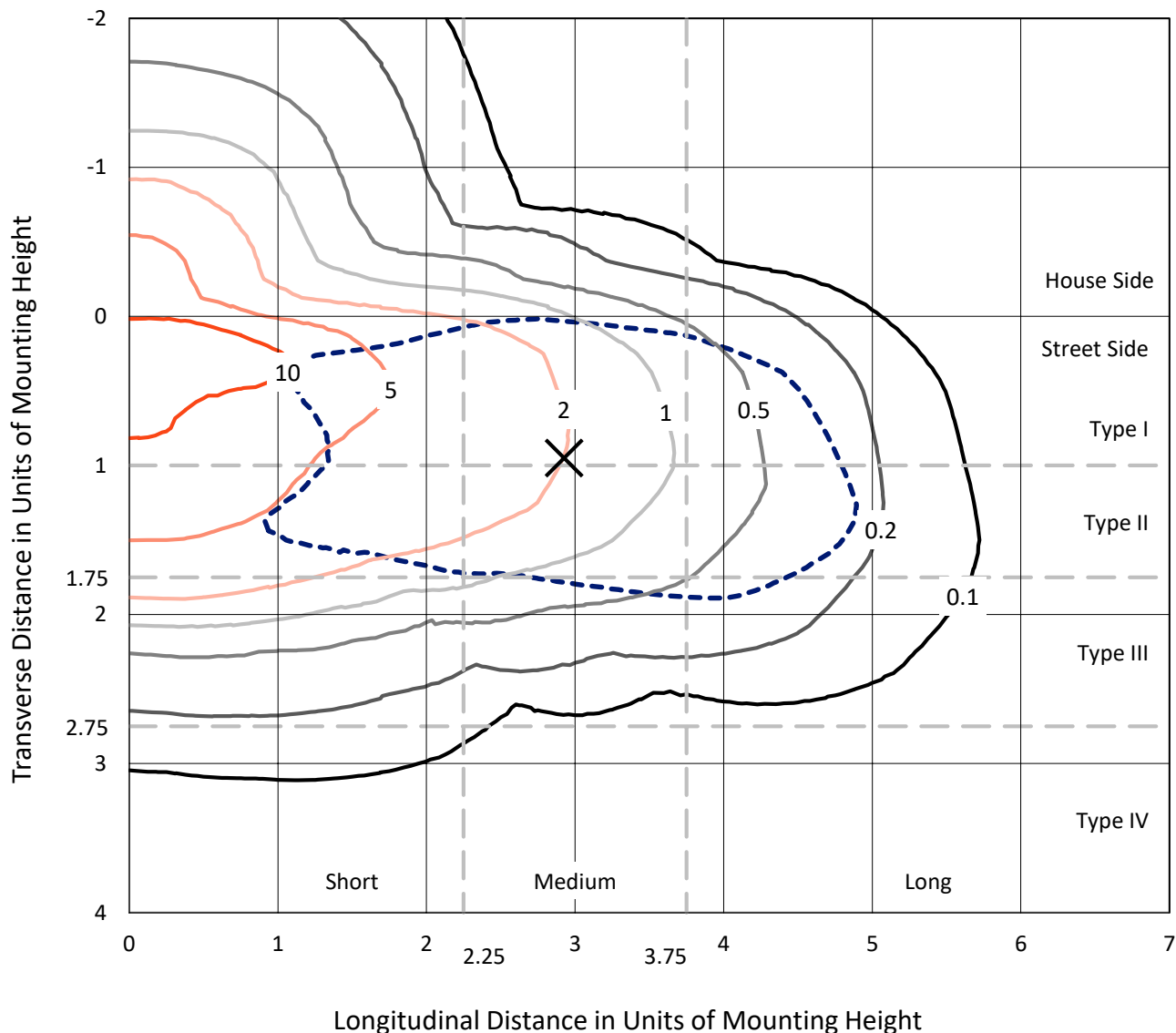
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

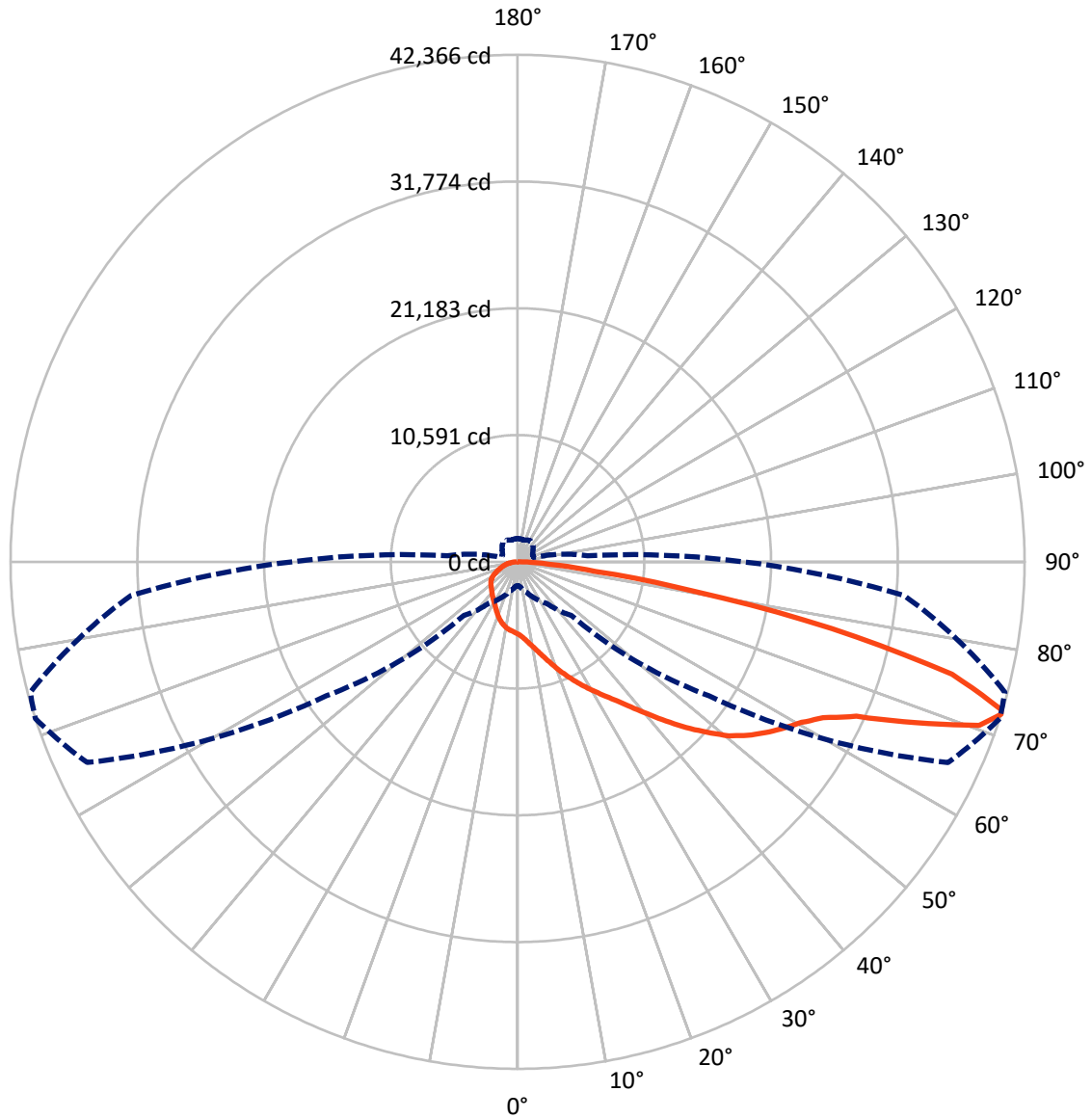
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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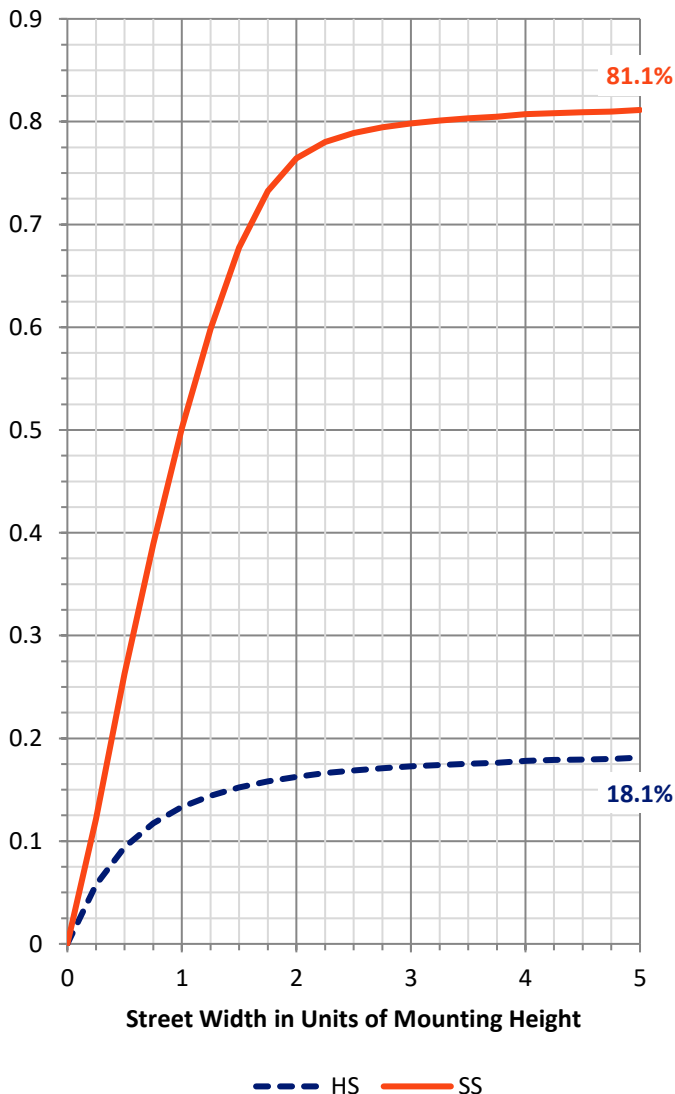
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9098.7	0.0	9098.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39949.3	0.0	39949.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	49048.0	0.0	49048.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.6	1.2
10°-20°	1953.9	4.0
20°-30°	3423.9	7.0
30°-40°	5076.5	10.4
40°-50°	7424.8	15.1
50°-60°	10216.5	20.8
60°-70°	11374.0	23.2
70°-80°	7707.0	15.7
80°-90°	1266.7	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°	49048.0	100.0
0°-180°	49048.0	100.0

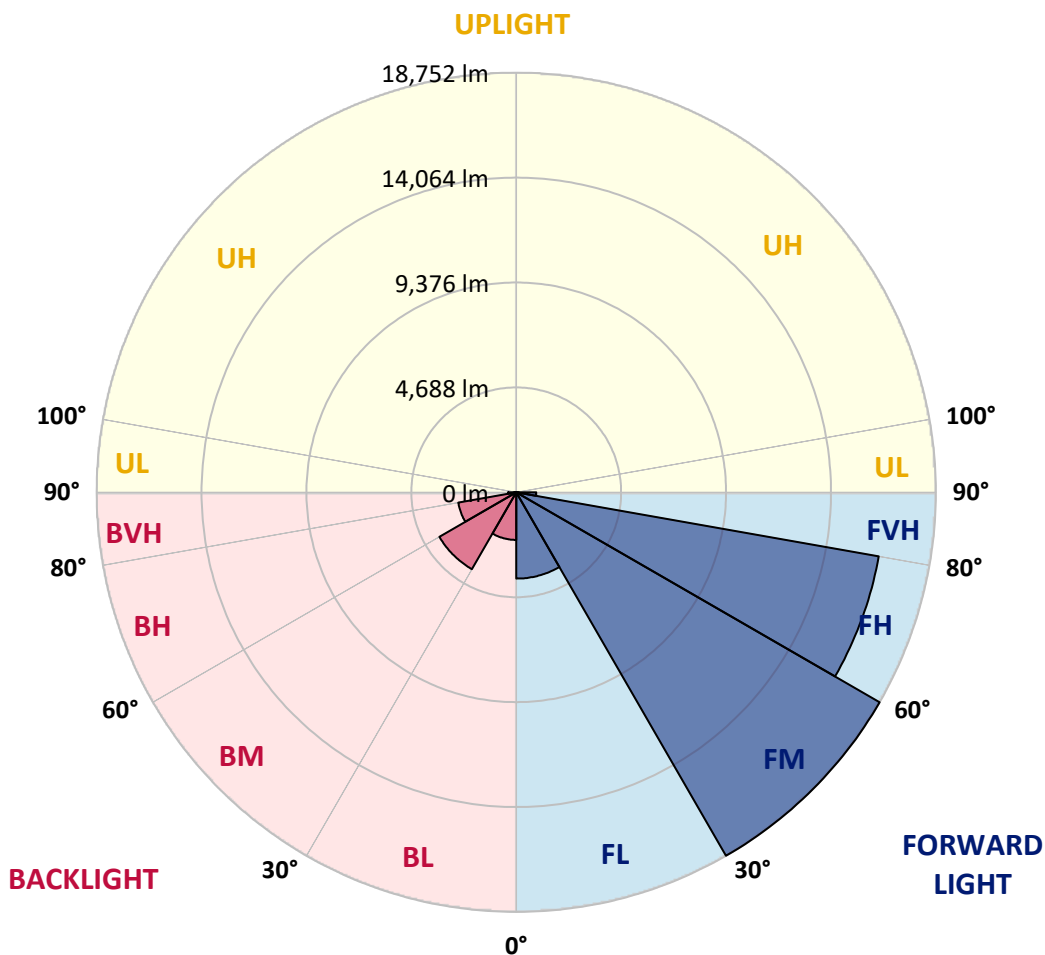


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3855.5	7.9			
FM (30°-60°)	18751.7	38.2			
FH (60°-80°)	16448.6	33.5			G5
FVH (80°-90°)	893.5	1.8			G5
BL (0°-30°)	2127.0	4.3	B3/2500		
BM (30°-60°)	3966.2	8.1	B3/5000		
BH (60°-80°)	2632.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	373.2	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2
2.5°	6665.8	6655.7	6620.2	6620.2	6552.7	6495.2	6387.1	6314.5	6228.4	6198.0	6096.7
5°	7310.9	7314.3	7270.4	7240.0	7140.4	7018.8	6834.7	6667.5	6500.3	6432.7	6225.0
7.5°	7853.1	7846.3	7834.5	7809.1	7716.3	7591.3	7343.0	7094.8	6848.2	6746.9	6388.8
10°	8201.0	8216.1	8226.3	8238.1	8199.3	8109.8	7875.0	7572.7	7250.1	7111.7	6584.7
12.5°	8376.6	8403.6	8450.9	8532.0	8596.1	8586.0	8415.4	8094.6	7711.2	7537.2	6829.6
15°	8479.6	8515.1	8589.4	8734.6	8915.3	9018.3	8972.7	8682.3	8255.0	8040.5	7128.5
17.5°	8543.8	8572.5	8687.3	8881.5	9150.1	9423.7	9543.6	9300.4	8869.7	8624.8	7471.4
20°	8587.7	8609.6	8753.2	8981.2	9329.1	9764.8	10099.2	10038.4	9546.9	9229.4	7829.4
22.5°	8685.6	8704.2	8841.0	9070.7	9455.7	10018.1	10634.6	10725.7	10261.3	9901.6	8212.8
25°	8959.2	8959.2	9074.1	9234.5	9595.9	10237.7	11087.2	11490.8	10990.9	10572.1	8567.4
27.5°	9481.1	9476.0	9518.2	9574.0	9847.6	10460.6	11490.8	12166.3	11747.5	11289.8	8911.9
30°	10099.2	10133.0	10138.0	10111.0	10239.4	10739.3	11864.0	12879.0	12509.2	12016.0	9264.9
32.5°	10894.6	10916.6	10891.3	10801.7	10783.2	11134.4	12230.5	13625.5	13333.3	12774.3	9587.5
35°	11904.6	11862.3	11783.0	11600.6	11426.6	11663.0	12649.3	14371.9	14258.8	13691.3	10031.6
37.5°	12987.1	12988.8	12890.8	12477.1	12237.3	12338.6	13226.9	15218.0	15378.5	14782.3	10600.8
40°	13855.1	13900.7	13961.5	13417.7	13107.0	13247.2	13961.5	16199.2	16702.5	16076.0	11342.2
42.5°	14461.4	14513.8	14686.1	14344.9	14022.3	14282.4	14826.2	17246.3	18188.7	17568.9	12210.2
45°	15103.2	15131.9	15253.5	15106.6	14900.5	15486.6	15800.7	18330.5	19761.0	19159.8	13181.3
47.5°	15778.7	15809.1	15934.1	15836.1	15728.1	16611.3	16817.4	19352.3	21267.4	20907.7	14218.2
50°	16613.0	16633.3	16751.5	16574.2	16607.9	17459.1	17725.9	20289.6	22846.5	22478.3	15258.6
52.5°	17751.3	17756.3	17920.2	17759.7	17601.0	18080.6	18507.9	21172.8	24084.4	23910.4	16298.9
55°	18643.0	18697.0	19234.1	19200.3	19109.1	18644.7	19161.4	22013.9	25188.9	25271.6	17403.4
57.5°	18073.8	18284.9	19372.5	20139.3	20885.7	20048.1	20044.7	22961.3	26215.7	26607.5	18617.6
60°	15829.4	16116.5	17719.2	19419.8	21755.5	22490.1	21878.8	24118.2	27252.6	27931.5	20139.3
62.5°	11305.0	11777.9	13949.7	16665.4	20563.2	24108.0	25611.1	25953.9	28662.8	29465.0	22116.9
65°	5715.0	6073.0	7893.6	11164.8	16428.9	23050.8	29667.6	29973.3	31113.3	31826.0	25161.9
67.5°	3472.2	3607.3	4495.7	6209.8	10072.2	17955.6	30991.7	36672.9	35855.5	36233.8	29503.8
70°	2558.6	2658.2	3212.2	4124.1	5792.7	10536.6	26928.4	41454.0	40916.9	40874.7	32712.6
72°	1992.8	2065.4	2555.2	3332.1	4235.6	6321.3	19517.8	39689.2	42365.9	42153.2	32418.7
72.5°	1889.8	1954.0	2399.8	3136.2	4002.5	5730.2	17548.6	38498.5	42261.2	42165.0	32038.8
75°	1487.9	1533.5	1776.6	2425.2	3132.8	3251.0	9616.2	29834.8	37490.3	39049.1	28816.5
77.5°	1231.2	1237.9	1366.3	1764.8	2442.0	2298.5	4723.7	20700.0	26845.6	28559.8	20412.9
80°	1003.2	1011.6	1072.4	1237.9	1847.6	1700.7	2242.8	11902.9	15030.6	15049.1	9707.4
82.5°	798.8	800.5	868.1	905.2	1327.4	1216.0	1285.2	5588.3	6567.9	6317.9	3489.1
85°	562.4	550.6	847.8	743.1	868.1	780.2	709.3	2212.4	2715.6	2597.4	1092.7
87.5°	187.5	194.2	376.6	481.3	506.6	442.5	315.8	847.8	1025.1	1016.7	346.2
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°	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2	6034.2
2.5°	6064.6	6010.5	5931.2	5843.3	5774.1	5703.2	5650.8	5623.8	5593.4	5568.1	5598.5
5°	6128.8	6027.4	5858.5	5693.0	5571.4	5463.4	5385.7	5345.1	5308.0	5282.7	5286.0
7.5°	6233.5	6069.6	5785.9	5544.4	5375.5	5259.0	5179.6	5152.6	5129.0	5122.2	5130.7
10°	6344.9	6103.4	5689.7	5368.8	5176.3	5080.0	5044.5	5063.1	5080.0	5095.2	5112.1
12.5°	6471.6	6133.8	5549.5	5162.7	4998.9	4961.8	4997.2	5078.3	5137.4	5172.9	5194.8
15°	6637.1	6160.8	5387.4	4956.7	4846.9	4889.2	5009.1	5149.2	5252.3	5318.1	5328.3
17.5°	6789.1	6159.2	5179.6	4749.0	4723.7	4846.9	5027.6	5225.2	5363.7	5456.6	5475.2
20°	6946.2	6113.6	4938.1	4546.3	4598.7	4801.3	5036.1	5274.2	5441.4	5549.5	5574.8
22.5°	7093.1	6034.2	4673.0	4362.2	4494.0	4740.5	5004.0	5245.5	5412.7	5500.5	5527.5
25°	7192.7	5895.7	4404.5	4206.9	4401.1	4666.2	4899.3	5093.5	5218.5	5262.4	5269.1
27.5°	7243.4	5715.0	4151.1	4071.8	4304.8	4544.6	4705.1	4801.3	4836.8	4833.4	4826.7
30°	7250.1	5476.9	3933.3	3962.0	4193.4	4365.6	4441.6	4423.0	4377.4	4299.8	4306.5
32.5°	7228.2	5208.3	3750.9	3857.3	4051.5	4147.8	4151.1	4061.6	3940.0	3816.8	3783.0
35°	7234.9	4944.9	3590.4	3739.1	3879.2	3921.5	3882.6	3750.9	3585.4	3426.6	3392.9
37.5°	7309.2	4715.2	3452.0	3602.3	3688.4	3698.5	3642.8	3504.3	3382.7	3227.4	3213.8
40°	7486.6	4551.4	3320.2	3448.6	3497.6	3502.6	3423.3	3325.3	3335.4	3252.7	3251.0
42.5°	7805.8	4480.5	3203.7	3288.1	3318.5	3328.7	3267.9	3205.4	3293.2	3239.2	3220.6
45°	8217.8	4497.3	3105.8	3131.1	3186.8	3234.1	3197.0	3121.0	3154.7	2920.0	2842.3
47.5°	8694.1	4605.4	3028.1	2996.0	3092.2	3181.8	3124.3	3009.5	2889.6	2656.5	2612.6
50°	9251.4	4772.6	2957.1	2862.6	2989.2	3110.8	3053.4	2889.6	2708.9	2595.7	2580.5
52.5°	9832.4	4977.0	2886.2	2715.6	2859.2	3056.8	3028.1	2862.6	2639.6	2528.2	2507.9
55°	10491.0	5183.0	2796.7	2545.1	2719.0	3031.4	3016.2	2764.6	2587.3	2524.8	2509.6
57.5°	11310.1	5417.8	2678.5	2367.7	2587.3	2940.3	2893.0	2705.5	2533.2	2486.0	2480.9
60°	12377.4	5764.0	2507.9	2178.6	2426.8	2800.1	2789.9	2619.4	2447.1	2413.3	2406.6
62.5°	13978.4	6336.5	2273.2	1989.4	2247.8	2562.0	2654.8	2502.8	2355.9	2354.2	2357.6
65°	16461.0	7197.8	2018.1	1823.9	2067.1	2361.0	2497.8	2382.9	2263.0	2296.8	2301.9
67.5°	19338.8	7912.2	1768.2	1661.8	1883.0	2170.1	2355.9	2263.0	2139.7	2227.6	2229.3
70°	20296.3	7273.8	1548.7	1501.4	1692.2	1986.1	2202.2	2131.3	2006.3	2094.1	2085.7
72°	18887.9	5872.1	1406.8	1379.8	1548.7	1834.1	2065.4	2008.0	1884.7	1943.8	1921.9
72.5°	18443.7	5598.5	1371.3	1349.4	1509.8	1795.2	2030.0	1977.6	1854.3	1905.0	1884.7
75°	16452.6	4862.1	1178.8	1183.9	1317.3	1606.1	1830.7	1813.8	1687.1	1692.2	1685.5
77.5°	11933.3	3565.1	993.0	1026.8	1121.4	1411.9	1629.7	1619.6	1481.1	1455.8	1450.7
80°	5537.7	1818.9	808.9	824.1	922.1	1180.5	1389.9	1376.4	1264.9	1232.8	1214.3
82.5°	1896.6	864.7	608.0	618.1	714.4	950.8	1205.8	1197.4	1104.5	1042.0	1003.2
85°	677.2	430.7	425.6	415.5	510.0	748.2	1050.5	1004.9	868.1	739.7	736.3
87.5°	219.5	184.1	219.5	217.9	297.2	506.6	763.4	650.2	629.9	523.5	513.4
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)