

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: P318091

Luminaire Tested: **GAN-SA7C-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318091
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-SA7C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49096 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

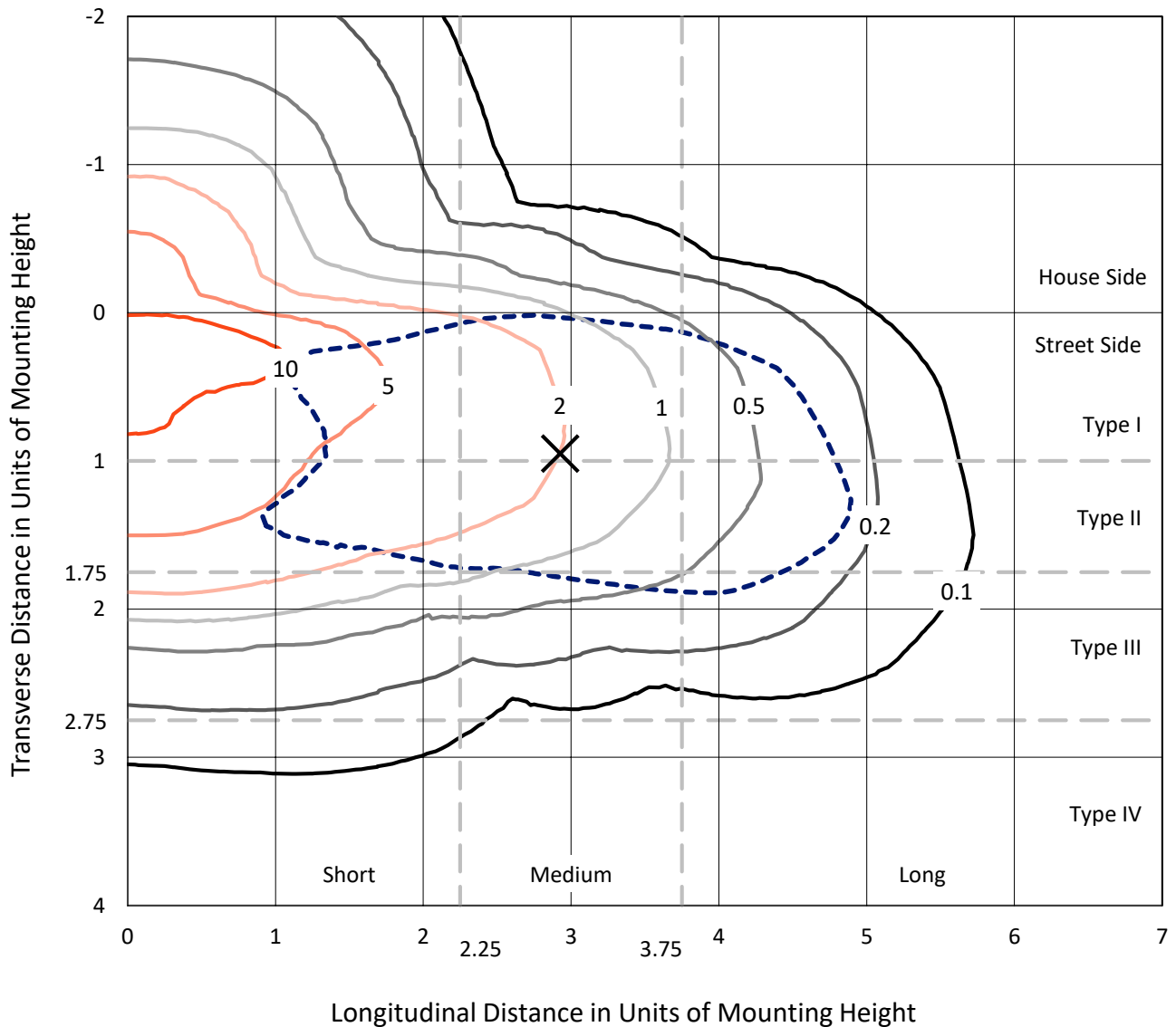
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

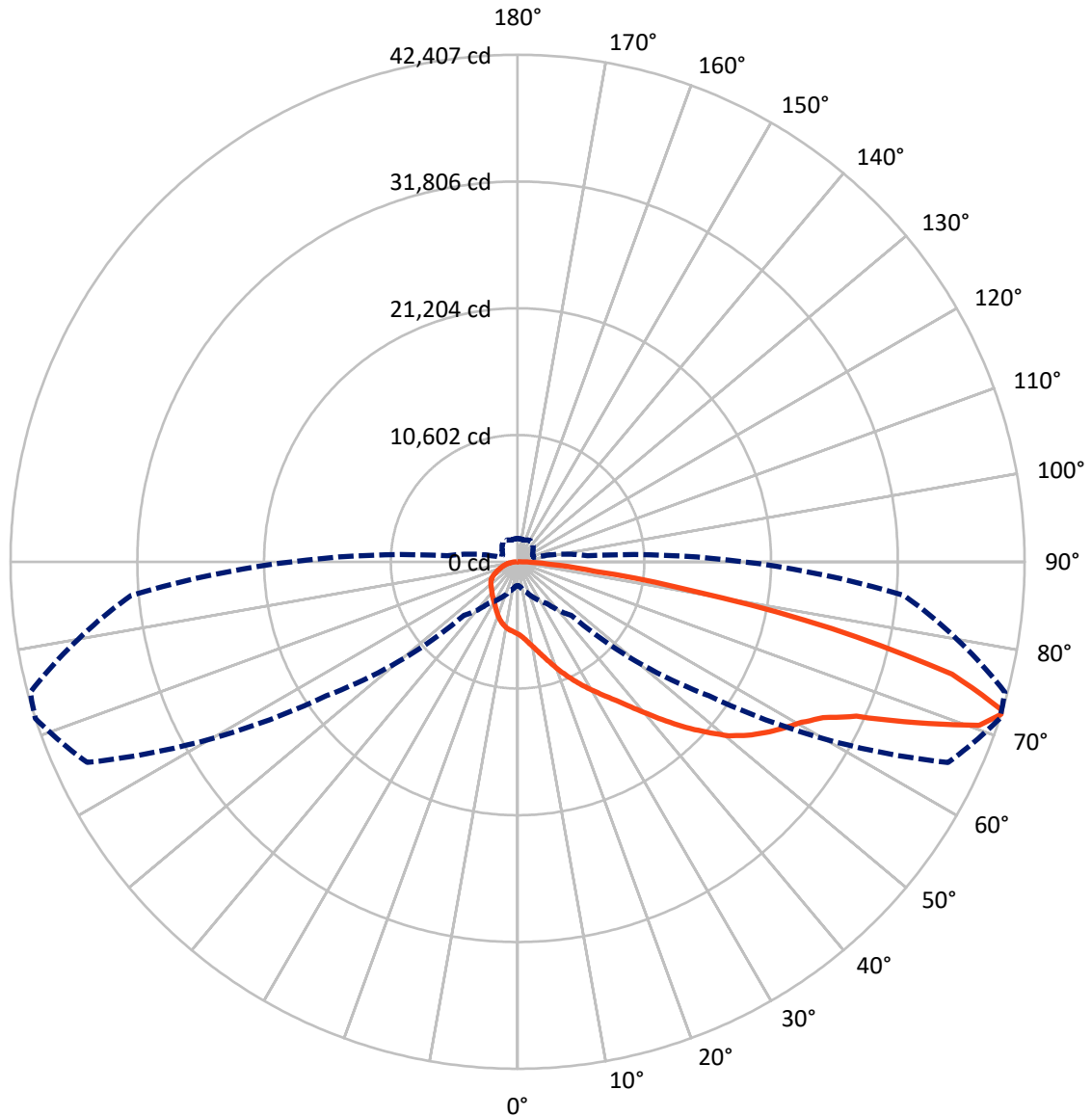
✕ Max cd
 - - - 1/2 Max cd



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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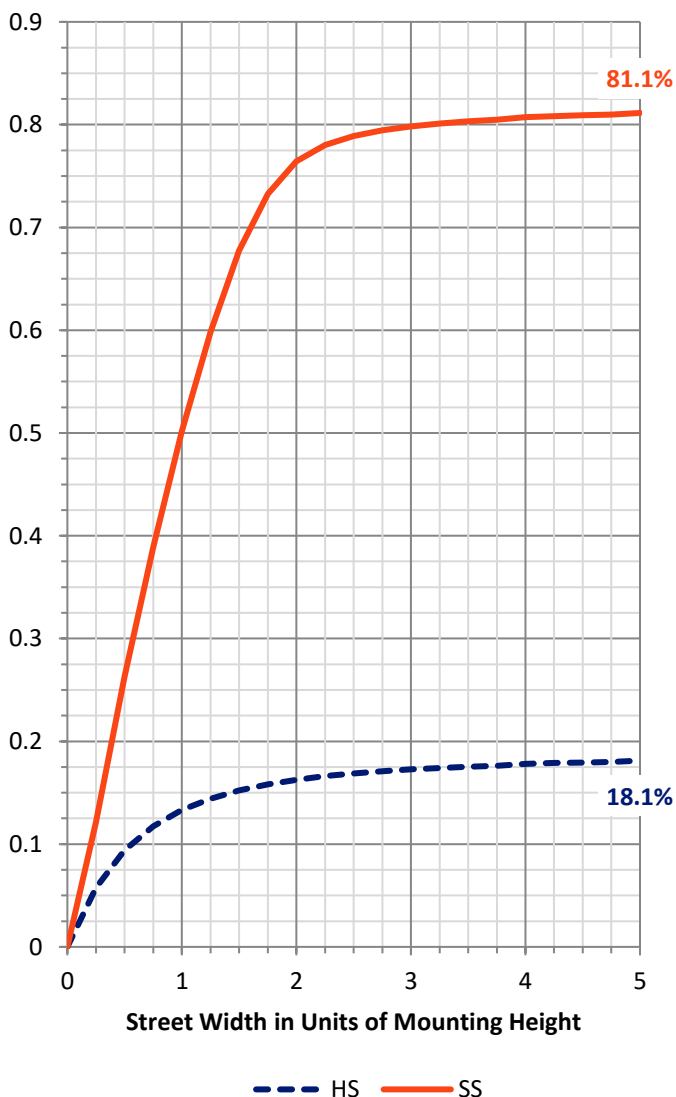
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9107.6	0.0	9107.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39988.4	0.0	39988.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	49096.0	0.0	49096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.2	1.2
10°-20°	1955.8	4.0
20°-30°	3427.2	7.0
30°-40°	5081.5	10.4
40°-50°	7432.1	15.1
50°-60°	10226.5	20.8
60°-70°	11385.1	23.2
70°-80°	7714.6	15.7
80°-90°	1268.0	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°	49096.0	100.0
0°-180°	49096.0	100.0

Coefficient of Utilization

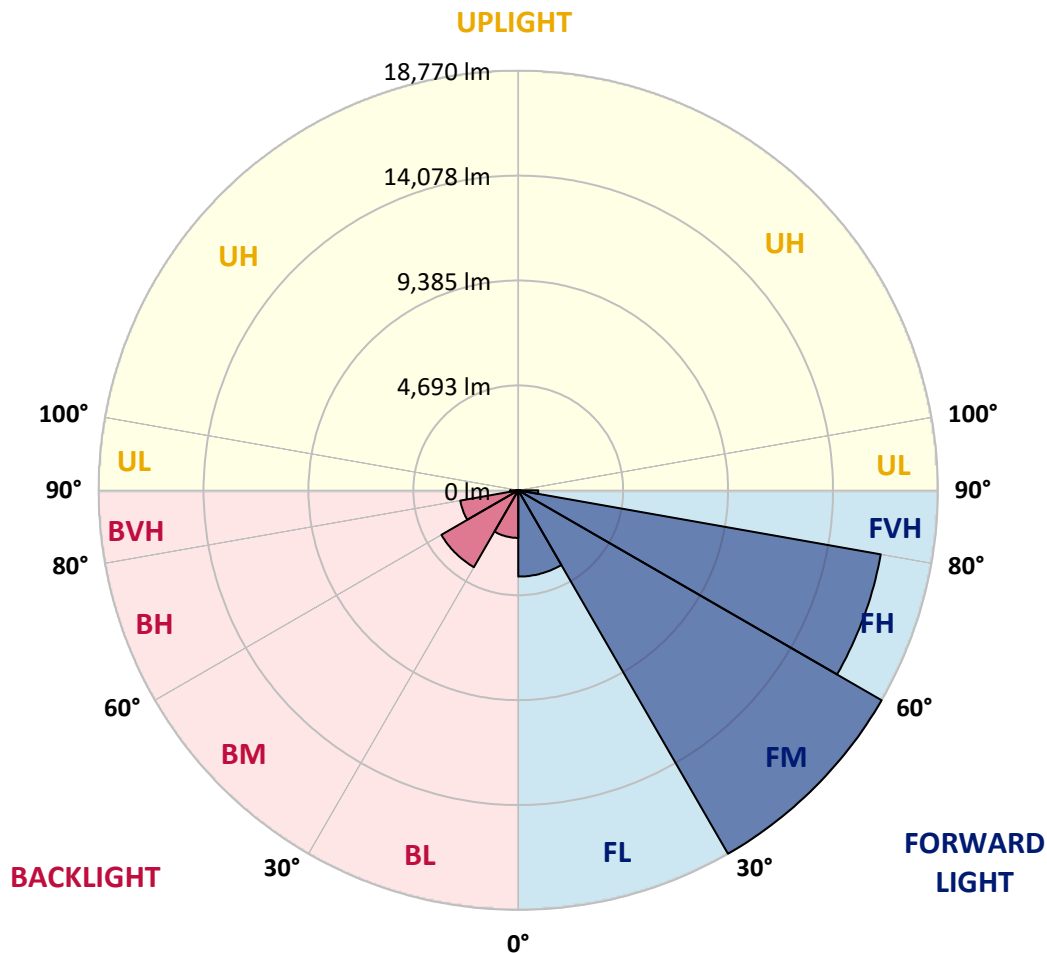


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3859.2	7.9			
FM (30°-60°)	18770.0	38.2			
FH (60°-80°)	16464.7	33.5			G5
FVH (80°-90°)	894.4	1.8			G5
BL (0°-30°)	2129.0	4.3	B3/2500		
BM (30°-60°)	3970.1	8.1	B3/5000		
BH (60°-80°)	2635.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	373.6	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°	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1
2.5°	6672.3	6662.2	6626.7	6626.7	6559.1	6501.6	6393.4	6320.7	6234.5	6204.1	6102.6
5°	7318.1	7321.5	7277.5	7247.1	7147.4	7025.6	6841.4	6674.0	6506.7	6439.0	6231.1
7.5°	7860.7	7854.0	7842.1	7816.8	7723.8	7598.7	7350.2	7101.7	6854.9	6753.5	6395.1
10°	8209.0	8224.2	8234.3	8246.2	8207.3	8117.7	7882.7	7580.1	7257.2	7118.6	6591.2
12.5°	8384.8	8411.8	8459.2	8540.3	8604.5	8594.4	8423.7	8102.5	7718.7	7544.6	6836.3
15°	8487.9	8523.4	8597.8	8743.2	8924.0	9027.2	8981.5	8690.8	8263.1	8048.4	7135.5
17.5°	8552.1	8580.9	8695.8	8890.2	9159.0	9432.9	9552.9	9309.5	8878.4	8633.3	7478.7
20°	8596.1	8618.1	8761.8	8990.0	9338.2	9774.4	10109.1	10048.2	9556.3	9238.5	7837.1
22.5°	8694.1	8712.7	8849.7	9079.6	9465.0	10027.9	10645.0	10736.2	10271.4	9911.3	8220.8
25°	8968.0	8968.0	9083.0	9243.6	9605.3	10247.7	11098.0	11502.0	11001.7	10582.4	8575.8
27.5°	9490.4	9485.3	9527.6	9583.3	9857.2	10470.8	11502.0	12178.2	11759.0	11300.9	8920.7
30°	10109.1	10142.9	10148.0	10120.9	10249.4	10749.8	11875.6	12891.6	12521.4	12027.8	9274.0
32.5°	10905.3	10927.3	10901.9	10812.3	10793.7	11145.3	12242.5	13638.8	13346.3	12786.8	9596.9
35°	11916.2	11873.9	11794.5	11611.9	11437.8	11674.5	12661.7	14386.0	14272.7	13704.7	10041.5
37.5°	12999.8	13001.5	12903.4	12489.3	12249.2	12350.7	13239.8	15232.9	15393.5	14796.8	10611.1
40°	13868.7	13914.3	13975.2	13430.9	13119.8	13260.1	13975.2	16215.1	16718.9	16091.7	11353.3
42.5°	14475.6	14528.0	14700.4	14358.9	14036.1	14296.4	14840.7	17263.2	18206.5	17586.1	12222.2
45°	15118.0	15146.7	15268.4	15121.4	14915.1	15501.7	15816.1	18348.5	19780.3	19178.5	13194.2
47.5°	15794.2	15824.6	15949.7	15851.6	15743.5	16627.6	16833.8	19371.2	21288.2	20928.2	14232.2
50°	16629.3	16649.5	16767.9	16590.4	16624.2	17476.2	17743.3	20309.4	22868.8	22500.3	15273.5
52.5°	17768.6	17773.7	17937.7	17777.1	17618.2	18098.3	18526.0	21193.6	24108.0	23933.8	16314.8
55°	18661.2	18715.3	19252.9	19219.1	19127.8	18662.9	19180.2	22035.4	25213.5	25296.4	17420.4
57.5°	18091.5	18302.8	19391.5	20159.0	20906.2	20067.7	20064.3	22983.8	26241.3	26633.5	18635.9
60°	15844.9	16132.3	17736.5	19438.8	21776.8	22512.1	21900.2	24141.8	27279.3	27958.9	20159.0
62.5°	11316.1	11789.4	13963.4	16681.7	20583.3	24131.6	25636.1	25979.3	28690.8	29493.8	22138.5
65°	5720.6	6079.0	7901.3	11175.8	16445.0	23073.4	29696.7	30002.7	31143.7	31857.1	25186.5
67.5°	3475.6	3610.9	4500.1	6215.9	10082.0	17973.2	31022.0	36708.8	35890.6	36269.3	29532.7
70°	2561.1	2660.8	3215.3	4128.2	5798.4	10546.9	26954.7	41494.5	40957.0	40914.7	32744.6
72°	1994.8	2067.5	2557.7	3335.3	4239.7	6327.5	19536.9	39728.0	42407.4	42194.4	32450.5
72.5°	1891.6	1955.9	2402.2	3139.2	4006.4	5735.8	17565.8	38536.2	42302.6	42206.2	32070.1
75°	1489.3	1535.0	1778.4	2427.5	3135.8	3254.2	9625.6	29864.0	37527.0	39087.3	28844.7
77.5°	1232.4	1239.1	1367.6	1766.6	2444.4	2300.7	4728.3	20720.2	26871.9	28587.7	20432.8
80°	1004.1	1012.6	1073.5	1239.1	1849.4	1702.3	2245.0	11914.5	15045.3	15063.9	9716.9
82.5°	799.6	801.3	868.9	906.1	1328.7	1217.1	1286.5	5593.8	6574.3	6324.1	3492.5
85°	562.9	551.1	848.6	743.8	868.9	781.0	710.0	2214.5	2718.3	2600.0	1093.7
87.5°	187.6	194.4	377.0	481.8	507.1	442.9	316.1	848.6	1026.1	1017.7	346.5
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°	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1	6040.1
2.5°	6070.5	6016.4	5937.0	5849.1	5779.8	5708.8	5656.3	5629.3	5598.9	5573.5	5603.9
5°	6134.8	6033.3	5864.3	5698.6	5576.9	5468.7	5390.9	5350.4	5313.2	5287.8	5291.2
7.5°	6239.6	6075.6	5791.6	5549.8	5380.8	5264.2	5184.7	5157.7	5134.0	5127.2	5135.7
10°	6351.1	6109.4	5695.2	5374.0	5181.3	5085.0	5049.5	5068.1	5085.0	5100.2	5117.1
12.5°	6477.9	6139.8	5554.9	5167.8	5003.8	4966.6	5002.1	5083.3	5142.4	5177.9	5199.9
15°	6643.6	6166.9	5392.6	4961.6	4851.7	4893.9	5014.0	5154.3	5257.4	5323.3	5333.5
17.5°	6795.7	6165.2	5184.7	4753.6	4728.3	4851.7	5032.6	5230.3	5369.0	5461.9	5480.5
20°	6952.9	6119.5	4943.0	4550.8	4603.2	4806.0	5041.0	5279.4	5446.7	5554.9	5580.3
22.5°	7100.0	6040.1	4677.6	4366.5	4498.4	4745.2	5008.9	5250.6	5418.0	5505.9	5532.9
25°	7199.8	5901.5	4408.8	4211.0	4405.4	4670.8	4904.1	5098.5	5223.6	5267.5	5274.3
27.5°	7250.5	5720.6	4155.2	4075.7	4309.0	4549.1	4709.7	4806.0	4841.5	4838.2	4831.4
30°	7257.2	5482.2	3937.1	3965.9	4197.5	4369.9	4446.0	4427.4	4381.7	4304.0	4310.7
32.5°	7235.3	5213.4	3754.6	3861.1	4055.5	4151.8	4155.2	4065.6	3943.9	3820.5	3786.7
35°	7242.0	4949.7	3594.0	3742.7	3883.0	3925.3	3886.4	3754.6	3588.9	3430.0	3396.2
37.5°	7316.4	4719.8	3455.3	3605.8	3692.0	3702.2	3646.4	3507.7	3386.0	3230.5	3217.0
40°	7493.9	4555.8	3323.5	3452.0	3501.0	3506.1	3426.6	3328.6	3338.7	3255.9	3254.2
42.5°	7813.4	4484.8	3206.8	3291.4	3321.8	3331.9	3271.1	3208.5	3296.4	3242.3	3223.7
45°	8225.9	4501.8	3108.8	3134.2	3189.9	3237.3	3200.1	3124.0	3157.8	2922.8	2845.1
47.5°	8702.6	4609.9	3031.0	2998.9	3095.3	3184.9	3127.4	3012.4	2892.4	2659.1	2615.2
50°	9260.5	4777.3	2960.0	2865.4	2992.2	3113.9	3056.4	2892.4	2711.5	2598.3	2583.1
52.5°	9842.0	4981.8	2889.0	2718.3	2862.0	3059.8	3031.0	2865.4	2642.2	2530.7	2510.4
55°	10501.3	5188.1	2799.4	2547.6	2721.7	3034.4	3019.2	2767.3	2589.8	2527.3	2512.1
57.5°	11321.2	5423.1	2681.1	2370.1	2589.8	2943.1	2895.8	2708.2	2535.7	2488.4	2483.3
60°	12389.5	5769.6	2510.4	2180.7	2429.2	2802.8	2792.7	2621.9	2449.5	2415.7	2408.9
62.5°	13992.1	6342.7	2275.4	1991.4	2250.0	2564.5	2657.4	2505.3	2358.2	2356.5	2359.9
65°	16477.1	7204.8	2020.1	1825.7	2069.1	2363.3	2500.2	2385.3	2265.2	2299.1	2304.1
67.5°	19357.7	7919.9	1769.9	1663.4	1884.9	2172.3	2358.2	2265.2	2141.8	2229.7	2231.4
70°	20316.2	7280.9	1550.2	1502.8	1693.9	1988.0	2204.4	2133.4	2008.3	2096.2	2087.7
72°	18906.3	5877.8	1408.2	1381.1	1550.2	1835.9	2067.5	2010.0	1886.6	1945.7	1923.8
72.5°	18461.7	5603.9	1372.7	1350.7	1511.3	1797.0	2032.0	1979.6	1856.1	1906.9	1886.6
75°	16468.7	4866.9	1180.0	1185.0	1318.6	1607.6	1832.5	1815.6	1688.8	1693.9	1687.1
77.5°	11944.9	3568.6	994.0	1027.8	1122.5	1413.2	1631.3	1621.2	1482.6	1457.2	1452.1
80°	5543.1	1820.6	809.7	825.0	923.0	1181.6	1391.3	1377.7	1266.2	1234.1	1215.5
82.5°	1898.4	865.5	608.6	618.7	715.1	951.7	1207.0	1198.6	1105.6	1043.0	1004.1
85°	677.9	431.1	426.0	415.9	510.5	748.9	1051.5	1005.8	868.9	740.4	737.0
87.5°	219.8	184.3	219.8	218.1	297.5	507.1	764.1	650.8	630.5	524.0	513.9
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)