

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: P320961

Luminaire Tested: **GAN-SA7B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320961
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-SA7B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41468 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

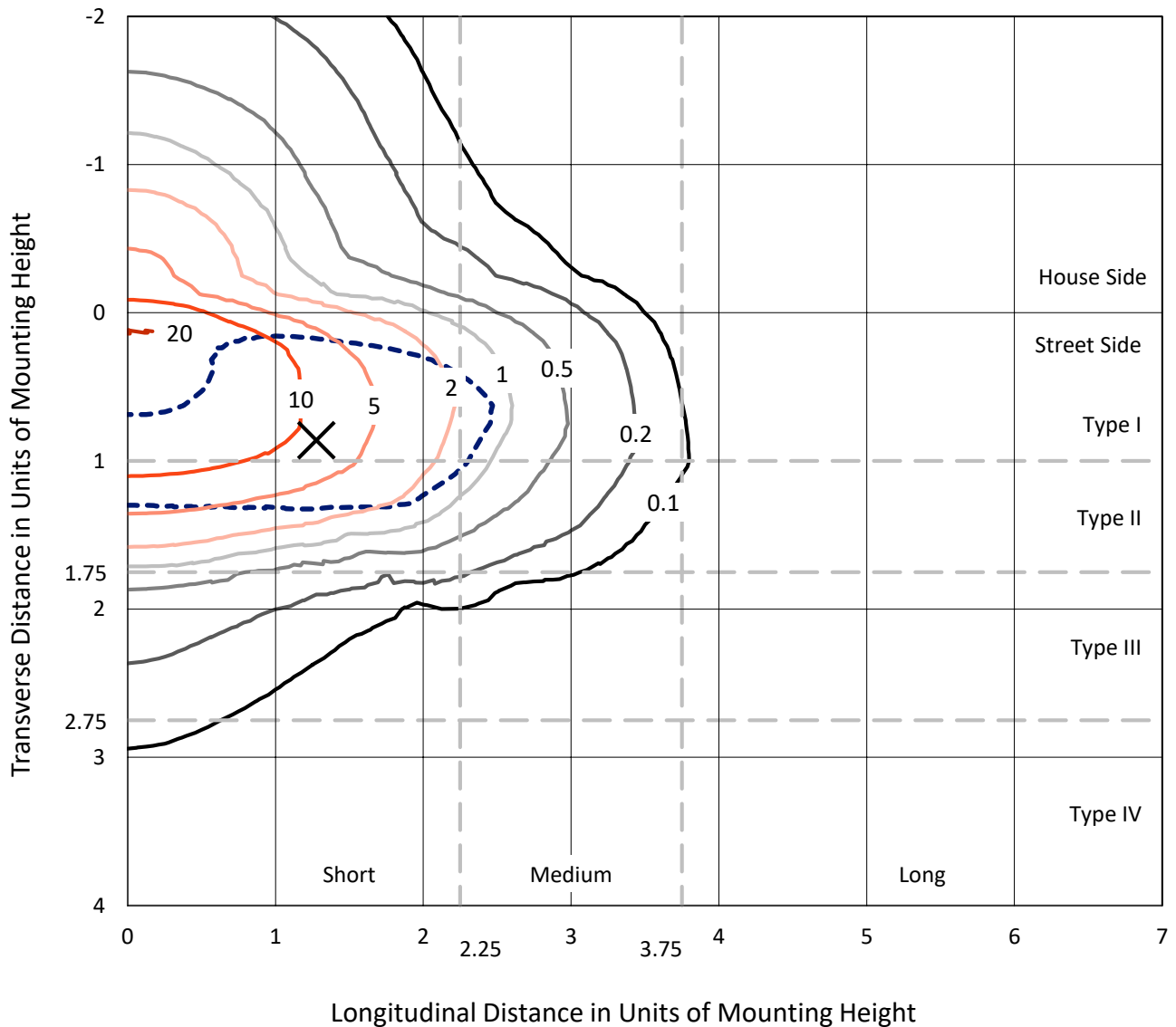
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

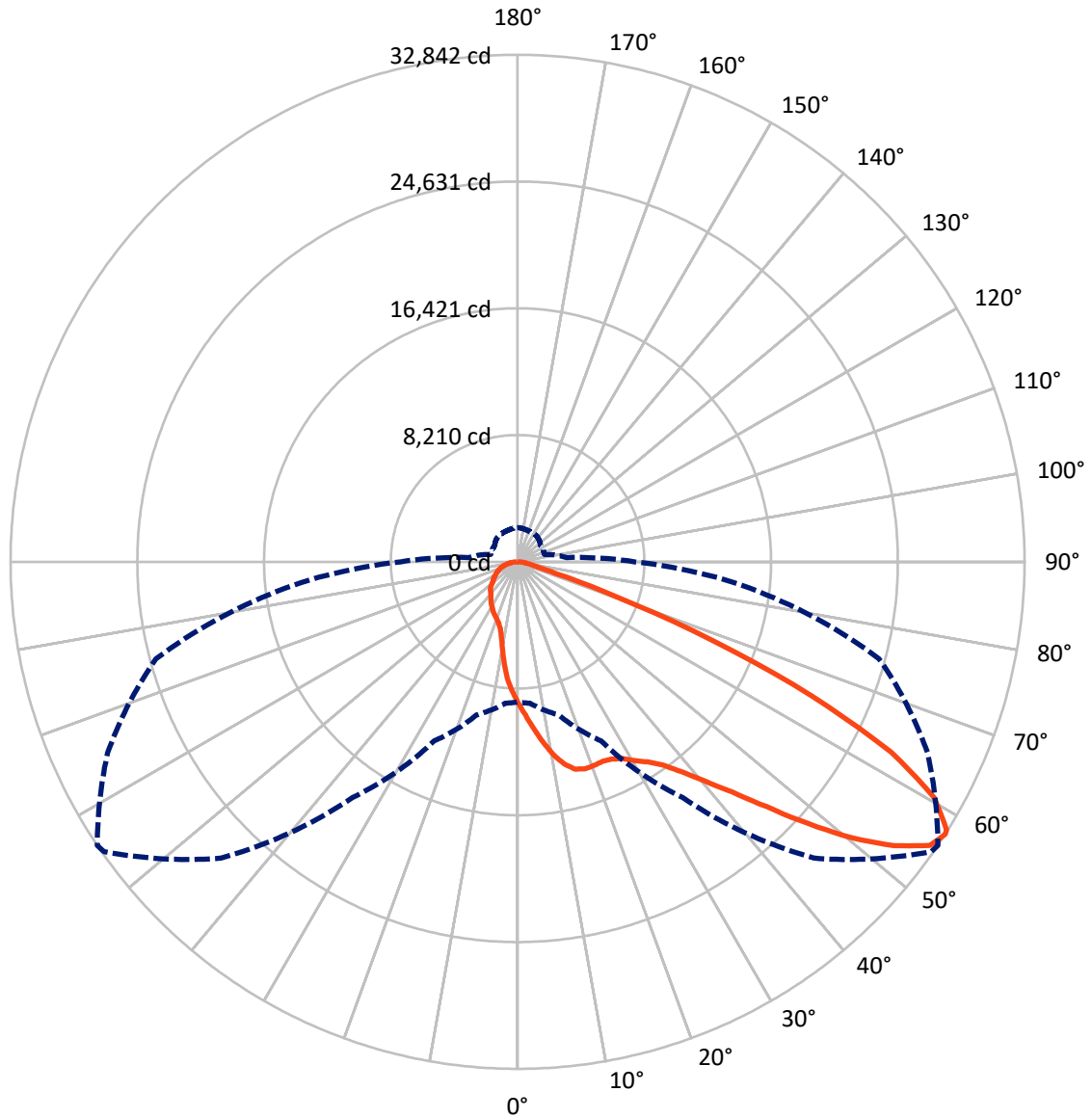
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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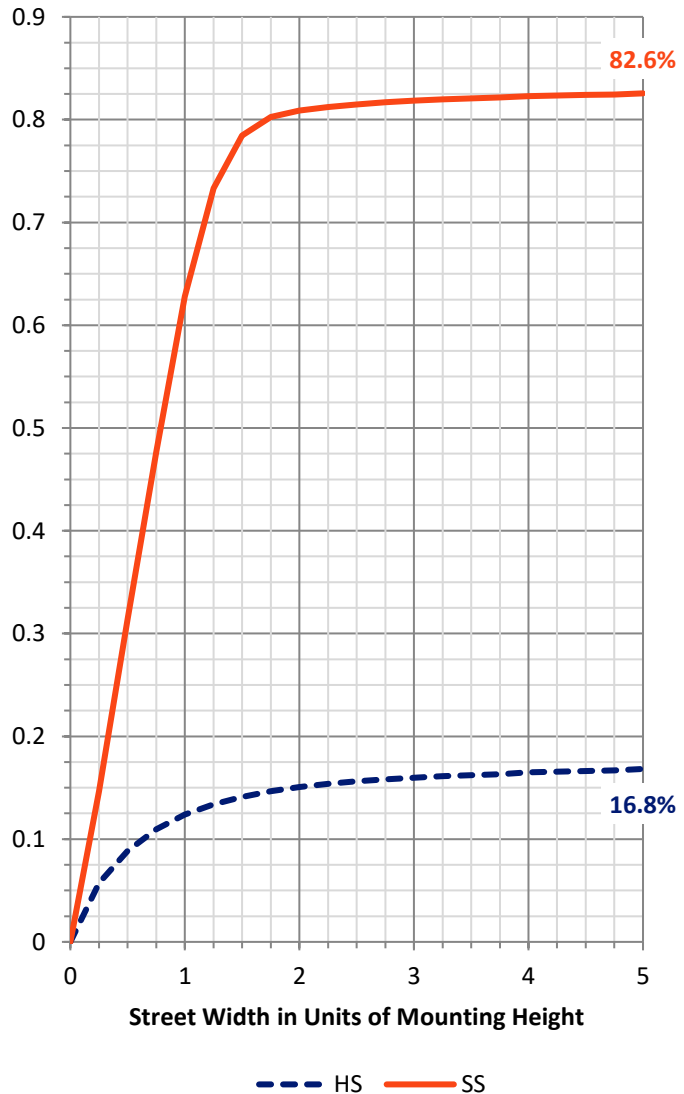
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7148.2	0.0	7148.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	34319.8	0.0	34319.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	41468.0	0.0	41468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.6	2.1
10°-20°	2484.0	6.0
20°-30°	4046.0	9.8
30°-40°	6048.3	14.6
40°-50°	9174.0	22.1
50°-60°	10282.4	24.8
60°-70°	6073.2	14.6
70°-80°	1989.8	4.8
80°-90°	491.6	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°	41468.0	100.0
0°-180°	41468.0	100.0

Coefficient of Utilization

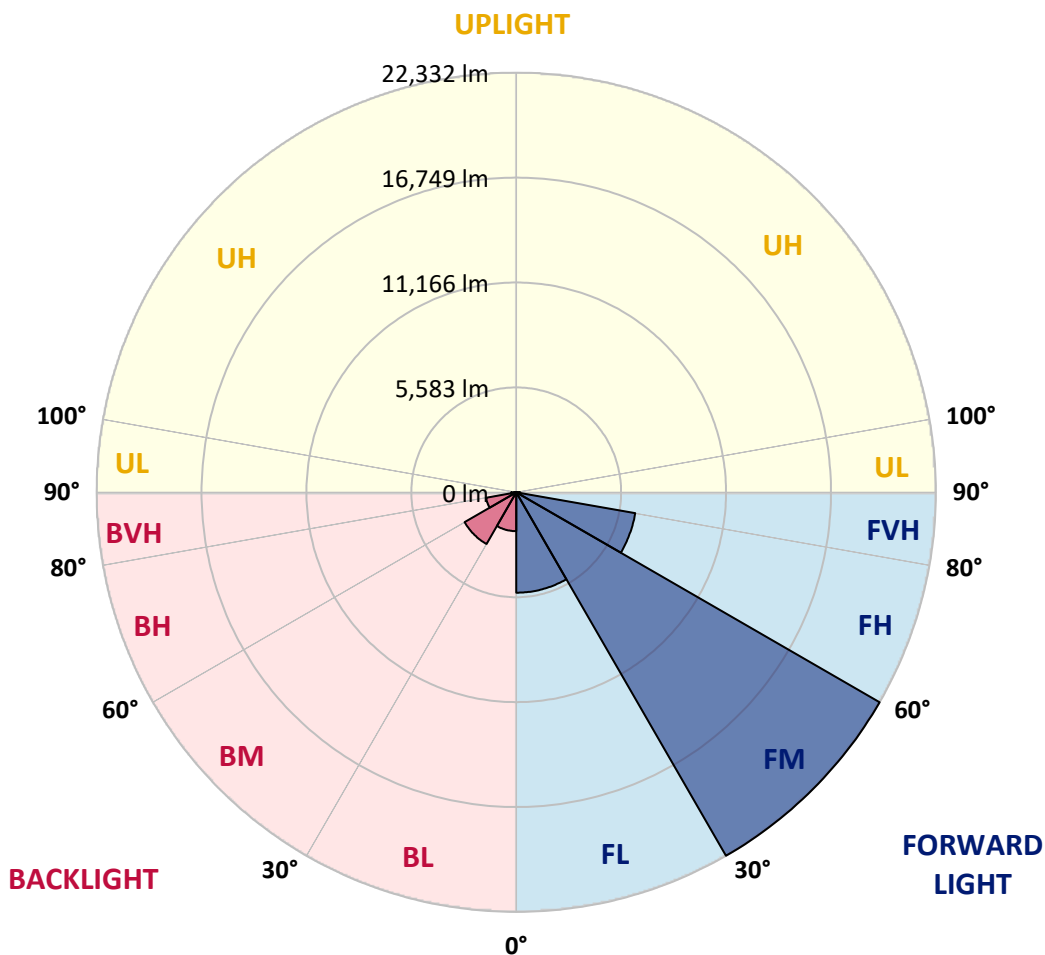


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5341.7	12.9			
FM (30°-60°)	22331.9	53.9			
FH (60°-80°)	6429.7	15.5			G3/7500
FVH (80°-90°)	216.5	0.5			G2/225
BL (0°-30°)	2066.9	5.0	B3/2500		
BM (30°-60°)	3172.8	7.7	B3/5000		
BH (60°-80°)	1633.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	275.1	0.7			G3/500
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°	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6
2.5°	10561.5	10658.4	10615.6	10467.4	10353.4	10192.4	10012.8	9958.6	9769.1	9556.8	9301.7
5°	12233.1	12184.7	12114.8	11884.0	11640.3	11356.7	10906.3	10835.1	10413.3	9933.0	9425.7
7.5°	13185.1	13180.8	13139.5	13004.1	12781.8	12411.3	11868.3	11784.2	11147.2	10374.8	9588.1
10°	13046.9	13036.9	13105.3	13246.4	13313.3	13236.4	12778.9	12694.9	11912.5	10863.6	9776.2
12.5°	12261.6	12267.3	12377.1	12673.5	13076.8	13561.3	13487.2	13445.9	12706.3	11416.5	10004.3
15°	11650.2	11663.1	11750.0	12008.0	12483.9	13363.2	13917.6	13931.8	13474.4	12026.5	10270.7
17.5°	11382.3	11409.4	11449.3	11630.3	12066.4	12968.5	14020.2	14097.2	14147.0	12659.2	10527.3
20°	11467.8	11493.5	11504.9	11620.3	11978.0	12729.1	13948.9	14087.2	14662.9	13254.9	10783.8
22.5°	11851.2	11866.9	11874.0	11903.9	12181.8	12797.5	13901.9	14047.3	15036.3	13789.3	10977.6
25°	12486.8	12475.4	12429.8	12391.3	12578.0	13068.2	14010.2	14148.5	15339.9	14273.9	11104.4
27.5°	13247.8	13233.5	13145.2	13039.7	13146.6	13490.1	14322.3	14432.1	15612.0	14727.1	11168.6
30°	14161.3	14124.2	13957.5	13832.1	13873.4	14122.8	14836.8	14936.5	16032.5	15241.5	11231.3
32.5°	15217.3	15177.4	14936.5	14728.5	14728.5	14936.5	15366.9	15449.6	16388.7	15823.0	11332.5
35°	16539.8	16489.9	16176.4	15827.2	15728.9	15834.4	16089.5	16147.9	17030.0	16555.5	11516.3
37.5°	18098.9	18031.9	17625.7	17158.3	16943.1	16937.4	17121.2	17240.9	18054.7	17517.4	11828.4
40°	19662.2	19615.2	19260.3	18892.6	18470.8	18335.4	18619.0	18656.1	19394.3	18711.7	12227.4
42.5°	20870.7	20862.1	20796.6	20845.0	20413.2	20139.6	20361.9	20391.9	21030.3	20004.2	12652.1
45°	21509.1	21523.4	21841.2	22545.2	22704.8	22505.3	22615.0	22623.6	22900.0	21308.2	13041.2
47.5°	20997.5	21071.6	21875.4	23450.1	24757.0	25419.6	25237.2	25342.7	24712.8	22428.3	13346.1
50°	19003.8	19095.0	20463.1	23046.8	25714.6	28239.9	28144.4	28120.2	26174.9	23249.2	13511.4
52.5°	16534.1	16605.3	17734.0	20950.5	25012.1	29799.0	30675.4	30550.0	27474.6	23863.4	13542.8
55°	12773.2	12884.4	13966.0	16766.4	22170.4	29203.3	32536.6	32424.0	28658.9	24185.5	13505.7
57°	9080.8	9197.6	10272.2	12796.0	18650.4	27141.2	32721.9	32841.6	29298.8	24239.6	13547.1
57.5°	8103.2	8222.9	9287.4	11738.6	17553.0	26395.8	32562.3	32761.8	29414.2	24231.1	13569.9
60°	4080.1	4125.7	4804.0	6552.6	11095.9	21339.6	30480.2	30994.7	29518.2	23812.1	13668.2
62.5°	2536.7	2503.9	2482.5	3018.4	5398.3	14151.3	26183.5	27173.9	27527.4	22797.4	13430.2
65°	2230.3	2169.0	1933.9	1891.1	2384.2	6873.3	19717.8	20950.5	23273.4	21198.5	12863.0
67.5°	2094.9	2035.1	1770.0	1610.4	1611.8	2724.8	12241.7	13629.7	18130.2	18495.0	11524.8
70°	1955.2	1901.1	1653.1	1465.0	1372.4	1509.2	5632.0	6685.2	11818.4	14537.5	9632.3
72.5°	1775.7	1738.6	1503.5	1309.7	1211.3	1130.1	2156.2	2546.7	6841.9	9763.4	6689.5
75°	1587.6	1553.4	1352.4	1167.2	1047.5	889.3	1214.2	1308.2	3475.8	4995.0	3293.4
77.5°	1380.9	1361.0	1202.8	1031.8	936.3	736.8	859.3	904.9	1490.7	2141.9	1651.7
80°	1098.8	1137.2	1051.7	919.2	830.8	590.0	608.5	638.4	867.9	1046.0	937.7
82.5°	715.4	782.4	823.7	746.8	684.1	464.6	437.5	450.3	565.8	638.4	407.6
85°	297.8	334.9	541.5	488.8	454.6	339.2	293.6	299.3	350.6	363.4	166.7
87.5°	132.5	141.1	238.0	223.7	192.4	116.9	125.4	136.8	186.7	176.7	64.1
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°	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6	9197.6
2.5°	9206.2	9086.5	8881.3	8654.7	8469.4	8321.2	8171.6	8069.0	7949.2	7885.1	7852.3
5°	9213.3	8978.2	8546.4	8103.2	7707.0	7345.0	7000.1	6735.1	6487.1	6353.1	6316.1
7.5°	9243.2	8889.8	8191.5	7461.9	6757.9	6115.1	5619.2	5308.5	5084.8	4985.0	4956.5
10°	9267.5	8785.8	7752.6	6672.4	5714.7	5063.4	4678.6	4504.8	4427.8	4415.0	4402.2
12.5°	9324.5	8678.9	7290.8	5848.6	4903.8	4453.5	4319.5	4308.1	4329.5	4360.8	4360.8
15°	9414.3	8573.4	6763.6	5141.8	4387.9	4229.7	4256.8	4319.5	4377.9	4426.4	4433.5
17.5°	9479.8	8443.8	6196.4	4576.0	4112.9	4155.6	4252.5	4340.9	4400.7	4447.8	4452.0
20°	9526.8	8242.8	5590.7	4144.2	3954.7	4087.2	4208.3	4286.7	4328.0	4375.1	4382.2
22.5°	9502.6	7973.5	5053.4	3835.0	3826.4	3987.4	4102.9	4196.9	4165.6	4120.0	4149.9
25°	9385.8	7602.9	4500.5	3604.1	3691.0	3853.5	3996.0	3933.3	3827.8	3807.9	3819.3
27.5°	9177.7	7129.8	3988.9	3390.3	3534.3	3729.5	3721.0	3658.2	3621.2	3595.5	3611.2
30°	8953.9	6616.8	3541.4	3203.6	3360.4	3521.4	3488.7	3487.2	3450.2	3408.9	3428.8
32.5°	8733.1	6100.9	3186.5	3049.7	3229.3	3250.7	3321.9	3343.3	3270.6	3183.7	3178.0
35°	8540.7	5613.5	2917.2	2910.1	3071.1	3074.0	3178.0	3148.1	2967.1	2877.3	2877.3
37.5°	8396.7	5127.5	2712.0	2784.7	2863.0	2937.1	2989.9	2865.9	2836.0	2786.1	2784.7
40°	8334.0	4700.0	2583.7	2689.2	2716.3	2810.3	2674.9	2723.4	2737.6	2712.0	2712.0
42.5°	8268.5	4328.0	2472.6	2616.5	2612.2	2599.4	2531.0	2593.7	2650.7	2652.1	2647.8
45°	8202.9	4007.4	2374.2	2461.2	2521.0	2382.8	2395.6	2462.6	2542.4	2570.9	2570.9
47.5°	8130.2	3753.7	2284.4	2297.3	2389.9	2297.3	2287.3	2338.6	2432.7	2478.3	2488.2
50°	7970.6	3525.7	2181.8	2153.3	2179.0	2210.3	2218.9	2243.1	2347.2	2419.8	2436.9
52.5°	7749.7	3321.9	2050.7	2020.8	2020.8	2139.1	2179.0	2186.1	2274.5	2361.4	2378.5
55°	7565.9	3192.2	1915.3	1909.6	1903.9	2063.6	2132.0	2143.4	2204.6	2273.0	2281.6
57°	7578.7	3182.3	1811.3	1817.0	1815.6	1986.6	2087.8	2112.0	2143.4	2201.8	2211.8
57.5°	7585.8	3189.4	1788.5	1791.4	1789.9	1965.2	2075.0	2102.0	2126.3	2187.5	2197.5
60°	7692.7	3207.9	1695.9	1664.5	1671.7	1851.2	2002.3	2036.5	2052.2	2133.4	2146.2
62.5°	7534.5	3125.3	1621.8	1546.2	1546.2	1731.5	1901.1	1955.2	1979.5	2089.2	2110.6
65°	7075.7	2893.0	1534.8	1412.3	1426.5	1611.8	1780.0	1868.3	1905.4	2042.2	2065.0
67.5°	6367.4	2623.6	1442.2	1292.6	1306.8	1486.4	1654.5	1750.0	1808.5	1990.9	2009.4
70°	5445.3	2294.4	1316.8	1165.7	1182.8	1349.6	1506.3	1614.6	1701.6	1942.4	1948.1
72.5°	4014.5	1881.1	1141.5	1026.1	1044.6	1190.0	1356.7	1482.1	1599.0	1821.3	1818.4
75°	2387.1	1470.7	947.7	885.0	897.8	1033.2	1221.3	1373.8	1549.1	1774.3	1801.3
77.5°	1447.9	1107.3	772.4	741.1	756.7	895.0	1124.4	1286.9	1527.7	1673.1	1664.5
80°	875.0	790.9	617.1	597.1	612.8	765.3	1040.3	1221.3	1335.3	1429.4	1429.4
82.5°	457.5	483.1	453.2	437.5	458.9	621.3	946.3	1066.0	1180.0	1013.3	946.3
85°	186.7	252.2	275.0	273.6	286.4	430.4	816.6	912.1	761.0	722.5	739.6
87.5°	62.7	106.9	134.0	115.4	121.1	270.8	565.8	440.4	523.0	364.8	346.3
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)